

Kentucky Power Company
KPSC Case No. 2019-00226
Commission Staff's First Set of Data Requests
Dated August 12, 2019

DATA REQUEST

KPSC 1-1 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_Attachment 1 for the requested information. The Company defines the term “spot purchase” as an agreement with a term of one year or less for purposes of its monthly fuel adjustment clause back-up filings and in responding to this request.

The Company’s definition of a 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 1-2 (defining spot purchase as less than one year) and the accompanying response by Kentucky Power.

Witness: Amy E. Jeffries

Counterparty	Type of Purchase	Total Tons
Contura Coal Sales, LLC*	Contract	28,367
Contura Coal Sales, LLC*	Spot	149,316
Blackhawk Coal Sales, LLC	Contract	16,714
Blackjewel Marketing and Sales, LLC	Spot	26,229
Case Coal Sales, LLC	Spot	8,636
Coal Network, LLC**	Contract	9,497
Consolidation Coal Company and McElroy Coal Company***	Contract	307,819
Ember Energy, LLC**	Contract	6,785
KZ Energy, LLC	Spot	6,532
SNR RiverOps, LLC	Spot	13,915
SNR Appalachian Trading, LLC	Spot	2,763
LHB investments, LLC	Spot	10,214

*Includes shipments under Alpha Coal Sales Co., LLC

Grand Total	586,787
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**Originally executed as a Spot purchase, but amended with the Term in excess of one year.

Total Contract	63%
Total Spot	37%

***Formerly listed as Consolidation Coal Company - OVRI

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DATA REQUEST

- KPSC 1-2** For the period under review, list each coal purchase made under a long-term contract (one year or greater). For each purchase, list:
- a. The 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. The current price paid per ton.

RESPONSE

Please see KPCO_R_KPSC_1_02_Attachment 1 for the requested information.

Witness: Amy E. Jeffries

This response is provided for the time period of November 1, 2018 through April 30, 2019 and lists all pertinent fuel contract information requested. Tonnage information is reported per Kentucky Power ownership share.

a. Contract/Purchase Order No.	b. Supplier Name	c. Location of Production Facilities	d. Method of Delivery	e. Tonnage Quantity Received During Review Period	f. Tonnage Quantity Requirement for Review Period	g. Current Price per Ton	
03-00-17-003	Alpha Coal Sales Co., LLC	Mammoth, Black Castle, Republic, Empire-Kanawha, Boone, Raleigh Counties, WV	Barge	18,831	26,667	\$54.50	Note 1
03-00-17-005	Alpha Coal Sales Co., LLC	Mammoth, Black Castle, Republic, Empire-Kanawha, Boone, Raleigh Counties, WV	Barge	63,674	58,333	\$52.50	
03-00-17-004	Ember Energy, LLC	Various Mines, Magoffin County, KY	Barge	6,785	13,500	\$54.49	Note 2
03-00-18-006	Case Coal Sales, LLC	Stanbaugh, Louisa, and Flatgap, KY	Barge	8,636	8,000	\$62.50	
03-00-17-007	Coal Network, LLC	Perry County, KY	Barge	9,497	14,400	\$55.05	Note 2
03-00-18-002	Contura Coal Sales, LLC	Mammoth, Black Castle, Republic, Empire-Kanawha, Boone, Raleigh Counties, WV	Barge	52,381	83,333	\$53.00	
03-00-18-004	Contura Coal Sales, LLC	Mammoth, Black Castle, Republic, Empire-Kanawha, Boone, Raleigh Counties, WV	Barge	9,536	22,500	\$59.00	
03-00-18-008	Blackhawk Coal Sales, LLC	Blue Creek Mine, Kanawha, WV	Barge	11,613	10,833	\$63.50	
03-00-18-010	Blackhawk Coal Sales, LLC	Blue Creek Mine, Kanawha, WV	Barge	5,101	11,533	\$63.50	
03-00-18-005	Blackjewel Marketing and Sales, LLC	Coal River Energy Mine 9, Boone County, WV	Barge	26,229	26,667	\$61.07	
03-00-17-006	SNR RiverOps, LLC	Ivel, KY; Ft. Gay, WV; Toler, KY; White Oak, KY	Barge	8,056	7,750	\$54.95	Note 1
03-00-18-007	SNR RiverOps, LLC	Ivel, KY; Ft. Gay, WV; Toler, KY; White Oak, KY	Barge	5,860	22,667	\$58.00	
03-00-18-4M1	SNR Appalachian Trading, LLC	Ivel, KY; Ft. Gay, WV; White Oak, KY	Barge	2,763	5,425	\$62.50	
07-77-05-900	Consolidation Coal Company and McElroy Coal Company	McElroy Mine, Marshall County, WV and Century Mine, Belmont/Monroe Counties, OH	Conveyor	307,819	280,925	\$39.86	Note 3

Note 1 All contractual tonnage requirements met
 Note 2 Supplier claimed force majeure; KPCo extended the term to allow for makeup of deliveries
 Note 3 Previously listed as Consolidation Coal Company - OVRI

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DATA REQUEST

- KPSC 1-3**
- 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 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

Please note that all tonnage amounts reflect Company's share.

- a. As of April 30, 2019 Kentucky Power's actual share of coal inventory levels were as follows:

Mitchell High Sulfur: 72,644 tons, or 19 days of supply
Mitchell Low Sulfur: 149,461 tons, or 39 days of supply

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

For Mitchell High Sulfur, $\frac{72,644 \text{ tons in storage as of 4/30/2019}}{3,829 \text{ (full load burn rate - tons/day)}} = 19 \text{ days}$

For Mitchell Low Sulfur, $\frac{149,461 \text{ tons in storage as of 4/30/2019}}{3,829 \text{ (full load burn rate - tons/day)}} = 39 \text{ days}$

c. As of April 30, 2019,

Mitchell High Sulfur: Target Inventory Days = 15 days, Actual Inventory Days = 19
(4 days over target)

Mitchell Low Sulfur: Target Inventory Days = 30 days, Actual Inventory Days = 39
(9 days over target)

d. Not Applicable.

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.

Witness: Amy E. Jeffries

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DATA REQUEST

- KPSC 1-4** 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 for the requested information concerning the Company's March 11, 2019 written coal-supply solicitation other than the offering vendors, analyses, and ranked proposals for the solicitation.

Please also refer to KPCO_R_KPSC_1_04_CONFIDENTIAL_Attachment 2 (low-sulfur) and KPCO_R_KPSC_1_04_CONFIDENTIAL_Attachment 3 (high-sulfur) for information relating to the offering vendors, analyses, and ranked proposals for the March 11, 2019 solicitation.

None of the high-sulfur bids were selected.

Witness: Amy E. Jeffries

CAPP

Date of Solicitation	March 11, 2019
Quantities Solicited (Tons)	200,000 (1) 2,000,000 (2) 1,000,000 (3)
Type of Solicitation	Spot and Contract
Coal Heat Content (BTU/lb)	12,000
Sulfur (%)	1.00
Time Period Over Which Deliveries Were Requested	Q3-Q4 2019 (1) Cal Yr 2020 (2) Cal Yr 2021 (3)
Applicable Generating Units	Mitchell Plant
Number of Vendors Solicitation Delivered To	Publically Posted and Emailed to over 60 contacts
Number of Vendors Responding to Solicitation	Q3-Q4 2019: 0* Cal Yr 2020: 11 Cal Yr 2021: 9
Vendor(s) Selected	Q3-Q4 2019: 0* Cal Yr 2020: 0 Cal Yr 2021: 1

NAPP

Date of Solicitation	March 11, 2019
Quantities Solicited (Tons)	200,000 (1) 1,500,000 (2) 1,000,000 (3)
Type of Solicitation	Spot and Contract
Coal Heat Content (BTU/lb)	11,500
Sulfur (%)	2.88
Time Period Over Which Deliveries Were Requested	Q3-Q4 2019 (1) Cal Yr 2020 (2) Cal Yr 2021 (3)
Applicable Generating Units	Mitchell Plant
Number of Vendors Solicitation Delivered To	Publically Posted and Emailed to over 60 contacts
Number of Vendors Responding to Solicitation	Q3-Q4 2019: 6 Cal Yr 2020: 6 Cal Yr 2021: 6
Vendor(s) Selected	Q3-Q4 2019: 0 Cal Yr 2020: 0 Cal Yr 2021: 0

* The Company determined that the Mitchell Plant did not require the coal for the period

CAPP CO Coal RFP Offers / Mar 18, 2019 / Mitchell Plant

Offer / Plant / Year	Mine	Quantity		Coal Price	Transportation			Offered Quality				Actual Quality				Quality Adjusted Delivered Pricing		
		Tons	BTU	Coal Price	River / Rail	MP / District	Rate	Btu	lbs. SO ₂	Sulfur %	Ash %	Btu	lbs. SO ₂	Sulfur %	Ash %	Quality Adj.	Quality Adjusted Delivered Cost	Delivered \$MMBTU
2020																		
Mitchell Plant																		
FGD Removal Efficiency		98.00%																
SO ₂ Allowance Cost		\$1.50																
Removal Cost \$/Ton		\$136.13																

CAPP CO Coal RFP Offers / Mar 18, 2019 / Mitchell Plant

Offer / Plant / Year	Mine	Quantity		Coal Price	Transportation			Offered Quality				Quality Adjusted Delivered Pricing		
		Tons	BTU	Coal Price	River / Rail	MP / District	Rate	Btu	lbs. SO ₂	Sulfur %	Ash %	Quality Adj.	Quality Adjusted Delivered Cost	Delivered \$MMBTU
2021														
Contura Coal Sales, LLC	Slab Camp, Blk Castle, Republic, etc	1,000,000	24,000,000	\$59.00	FOB Barge - KR	Mammoth/Marmet	\$6.500	12,000	1.67	1.00	12.00	\$2.674	\$68.174	\$2.8406
Mitchell Plant														
FGD Removal Efficiency		98.00%												
SO ₂ Allowance Cost		\$1.50												
Removal Cost \$/Ton		\$136.13												

NAPP Coal RFP Offers / Mar 18, 2019 / Mitchell Plant

Offer / Plant / Year	Mine	Quantity		Coal Price	Transportation		Offered Quality				Actual Quality				Quality Adjusted Delivered Pricing			
		Tons	BTU	Coal Price	River / Rail	MP / District	Btu	lbs. SO ₂	Sulfur %	Ash %	Btu	lbs. SO ₂	Sulfur %	Ash %	Quality Adj.	Quality Adjusted Delivered Cost	Delivered \$MMBTU	
2019																		
Mitchell Plant																		
FGD Removal Efficiency		98.00%																
SO ₂ Allowance Cost		\$1.50																
Removal Cost \$/Ton		\$136.13																

NAPP Coal RFP Offers / Mar 18, 2019 / Mitchell Plant

Offer / Plant / Year	Mine	Quantity		Coal Price	Transportation		Offered Quality				Actual Quality				Quality Adjusted Delivered Pricing			
		Tons	BTU	Coal Price	River / Rail	MP / District	Btu	lbs. SO ₂	Sulfur %	Ash %	Btu	lbs. SO ₂	Sulfur %	Ash %	Quality Adj.	Quality Adjusted Delivered Cost	Delivered \$/MMBTU	
2021																		
Mitchell Plant																		
FGD Removal Efficiency		98.00%																
SO ₂ Allowance Cost		\$1.50																
Removal Cost \$/Ton		\$136.13																

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DATA REQUEST

- KPSC 1-5** 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 documents that rank 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: Amy E. Jeffries

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DATA REQUEST

KPSC 1-6 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 for the requested information.

Witness: Clinton M. Stutler

Natural Gas Purchases
November 1, 2018 - April 30, 2019

Counterparty	Type of Purchase	Gross MMBTUs
BIOURJA Trading, LLC	Spot	58,200
Elevation Energy Group	Spot	30,000
Interstate Gas Supply, Inc	Spot	839,400
Macquarie Energy LLC	Spot	1,009,700
Mercuria Energy American, Inc.	Spot	45,300
NextEra Energy Power Marketing, LLC	Spot	440,400
NJR Energy Services	Spot	55,300
Range Resources - Appalachia, LLC	Spot	19,900
Sequent Energy Management, L.P.	Spot	120,000
Snyder Brothers, Inc.	Spot	10,000
SPOTLIGHT Energy, LLC	Spot	391,800
Tenaska Marketing Ventures	Spot	93,500
TEXLA Energy Management, Inc.	Spot	349,300
VITOL Inc.	Spot	5,800

Grand Total	3,468,600
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Total Contract	0%
Total Spot	100%

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DATA REQUEST

KPSC 1-7 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: Clinton M. Stutler

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DATA REQUEST

KPSC 1-8 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.

Witnesses: Clinton M. Stutler and Amy E. Jeffries

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DATA REQUEST

- KPSC 1-9**
- 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.

Witnesses: Clinton M. Stutler and Amy E. Jeffries

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DATA REQUEST

- KPSC 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 pleadings that initiated the litigation and any answers or counterclaims. If a copy has previously been filed with the Commission, provide the date on which it was filed and the case in which it was filed.
- c. State the current status of all litigation with suppliers or vendors.

RESPONSE

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

Witnesses: Clinton M. Stutler and Amy E. Jeffries

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DATA REQUEST

- KPSC 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 in May of 2018 and the corresponding changes were provided to the Commission in Case No. 2019-00002 on February 25, 2019.

Witnesses: Clinton M. Stutler and Amy E. Jeffries

Kentucky Power Company
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DATA REQUEST

KPSC 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) Kentucky Power Company was committed to purchase 30% of AEG's 50% share of each Rockport unit, which aggregates to 393 MW for Kentucky Power.

(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 period under review. The cities use the power for load-following service to their citizens.

Nov. 2018 - April 2019

City of Olive Hill (MW)	6.1
City of Vanceburg (MW)	14.1

Witness: Brian K. West

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DATA REQUEST

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

RESPONSE

Please see KPCO_R_KPSC_1_13_Attachment1 for this response.

Witness: Brian K. West

Tracking Code	Description
AECI2	Allegheny Electric Cooperative
AMRX2	Amerex Power, Ltd
APBE2	ICAP Energy LLC
BGCF2	BGC Financial LP
CARB2	Carbon Solutions Group
DEOI2	Duke Energy Ohio, Inc.
DLPM	Duquesne Light Company
DPLG	The Dayton Power and Light Co.
EVOF2	Evolution Markets Futures, LLC
FESC	FirstEnergy Trading Services
ICET2	ICE Trade Vault LLC
IVGE2	IVG Energy, LTD
KNOL2	Knollwood Energy
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
PPLT2	PPL Electric Utilities Corporation
PREE2	Tullett Prebon Americas Corp.
PVMF2	PVM Futures, Inc.
RBCC2	RBC Capital Market, LLC
SPSR2	Marex Spectron
TFSE2	TFS Energy Futures, LLC
TRED2	Trident Brokerage Services LLC
TVAM	TVA Bulk Power Trading
WELF2	Wells Fargo Securities, LLC
WVPA	Wabash Valley Power Assn, Inc.

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
11	2018	117		PJM	4470006	(191.48)	0
11	2018	117	NEQT	DEOI2	4470006	96,488.45	1,975,000
11	2018	117	PEQT	PREE2	4470006	(4.00)	0
11	2018	117	PHRT	APBE2	4470006	0.00	0
11	2018	117	PHRT	EVOF2	4470006	(25.08)	0
11	2018	117	PHRT	IVGE2	4470006	0.00	0
11	2018	117	PHRT	PREE2	4470006	0.00	0
11	2018	117	PICT	AMRX2	4470006	(175.73)	0
11	2018	117	PICT	APBE2	4470006	(223.04)	0
11	2018	117	PICT	BGCF2	4470006	(40.83)	0
11	2018	117	PICT	DPLG	4470006	14,869.85	305,000
11	2018	117	PICT	EVOF2	4470006	(163.33)	0
11	2018	117	PICT	FESC	4470006	236,105.70	5,034,000
11	2018	117	PICT	IVGE2	4470006	(41.33)	0
11	2018	117	PICT	PPLT2	4470006	65,003.16	1,338,000
11	2018	117	PICT	PREE2	4470006	(661.82)	0
11	2018	117	PICT	SPSR2	4470006	0.00	0
11	2018	117	PICT	TFSF2	4470006	(60.99)	0
11	2018	117	PICT	TRED2	4470006	(8.30)	0
11	2018	117	PSHD	AMRX2	4470006	(7.54)	0
11	2018	117	PSHD	APBE2	4470006	0.00	0
11	2018	117	PSHD	DLPM	4470006	4,974.18	0
11	2018	117	PSHD	EVOF2	4470006	(23.01)	0
11	2018	117	PSHD	IVGE2	4470006	(36.21)	0
11	2018	117	PSHD	PREE2	4470006	(115.42)	0
11	2018	117	PSHD	SPSR2	4470006	(1.89)	0
11	2018	117	PSHD	TFSF2	4470006	(15.84)	0
					4470006 Total	415,645.50	8,652,000
11	2018	117		ICET2	4470010	(761.44)	0
11	2018	117		PJM	4470010	(16,437.86)	(305,483)
11	2018	117		PJM	4470010	(107,510.23)	(1,961,709)
11	2018	117		PJM	4470010	(67,126.46)	(1,336,684)
11	2018	117		PJM	4470010	(283,716.98)	(5,029,675)
11	2018	117		PJM	4470010	(104.82)	0
11	2018	117		PJM	4470010	(55.10)	0
11	2018	117		PJM	4470010	(136,558.71)	(2,508,798)
11	2018	117		PJM	4470010	(7.19)	0
11	2018	117	PHRT	APBE2	4470010	(0.75)	0
11	2018	117	PHRT	EVOF2	4470010	(25.08)	0
11	2018	117	PHRT	ICET2	4470010	(46.68)	0
11	2018	117	PHRT	IVGE2	4470010	0.00	0
11	2018	117	PHRT	PREE2	4470010	(3.77)	0
11	2018	117	PICT	AMRX2	4470010	(141.95)	0
11	2018	117	PICT	APBE2	4470010	(321.17)	0
11	2018	117	PICT	BGCF2	4470010	0.00	0
11	2018	117	PICT	EVOF2	4470010	(182.04)	0
11	2018	117	PICT	ICET2	4470010	(17.68)	0
11	2018	117	PICT	IVGE2	4470010	(28.66)	0

11	2018 117	PICT	PREE2	4470010	(175.78)	0
11	2018 117	PICT	SPSR2	4470010	(8.30)	0
11	2018 117	PICT	TFSF2	4470010	(17.92)	0
11	2018 117	PICT	TRED2	4470010	0.00	0
11	2018 117	PSHD	APBE2	4470010	(15.09)	0
11	2018 117	PSHD	EVOF2	4470010	(27.35)	0
11	2018 117	PSHD	IVGE2	4470010	(61.11)	0
11	2018 117	PSHD	PREE2	4470010	(57.33)	0
11	2018 117	PSHD	SPSR2	4470010	(1.89)	0
11	2018 117	PSHD	TFSF2	4470010	(38.85)	0
				4470010 Total	(613,450.19)	(11,142,349)
11	2018 117	KSHD	RBCC2	4470081	1,600.86	0
				4470081 Total	1,600.86	0
11	2018 117	PEQT	MSUI2	4470082	15,641.55	0
11	2018 117	PEQT	RBCC2	4470082	3,224.81	0
11	2018 117	PHRT	MSUI2	4470082	832.97	0
11	2018 117	PHRT	RBCC2	4470082	(3,104.24)	0
11	2018 117	PHRT	WELF2	4470082	2,963.17	0
11	2018 117	PICT	MSUI2	4470082	24,709.52	0
11	2018 117	PICT	RBCC2	4470082	19,442.73	0
11	2018 117	PICT	WELF2	4470082	(110.46)	0
11	2018 117	PICT	WVPA	4470082	(9,602.77)	0
11	2018 117	PJST	RBCC2	4470082	200.61	0
11	2018 117	PSHD	MSUI2	4470082	(9,917.35)	0
11	2018 117	PSHD	RBCC2	4470082	(3,100.00)	0
				4470082 Total	41,180.54	0
11	2018 117		PJM	4470089	(65,255.99)	0
				4470089 Total	(65,255.99)	0
11	2018 117		PJM	4470098	0.14	0
11	2018 117		PJM	4470098	(1,411.82)	0
				4470098 Total	(1,411.68)	0
11	2018 117		PJM	4470099	92,712.60	0
				4470099 Total	92,712.60	0
11	2018 117		PJM	4470100	4,353.41	0
				4470100 Total	4,353.41	0
11	2018 117		PJM	4470103	597,568.99	14,966,814
				4470103 Total	597,568.99	14,966,814
11	2018 117		PJM	4470107	(0.84)	0
				4470107 Total	(0.84)	0
11	2018 117		PJM	4470110	0.01	0
				4470110 Total	0.01	0
11	2018 117	PHHS	DLPM	4470112	1,043.12	21,000
				4470112 Total	1,043.12	21,000
11	2018 117		PJM	4470115	(948.30)	0
				4470115 Total	(948.30)	0
11	2018 117		PJM	4470126	(3,051.05)	0
				4470126 Total	(3,051.05)	0
11	2018 117		PJM	4470127	15,300.41	0
				4470127 Total	15,300.41	0
11	2018 117		PJM	4470131	(1,278.87)	(20,148)

11	2018 117		PJM	4470131	(221.14)	(3,636)
11	2018 117		PJM	4470131	0.91	0
11	2018 117		PJM	4470131	2.88	0
				4470131 Total	(1,496.22)	(23,784)
11	2018 117	PHHS	AMRX2	4470143	(0.01)	0
11	2018 117	PHHS	APBE2	4470143	(0.56)	0
11	2018 117	PHHS	EVOF2	4470143	(0.76)	0
11	2018 117	PHHS	ICET2	4470143	(13.05)	0
11	2018 117	PHHS	IVGE2	4470143	(2.09)	0
11	2018 117	PHHS	MSUI2	4470143	(280.26)	0
11	2018 117	PHHS	PREE2	4470143	0.00	0
11	2018 117	PHHS	RBCC2	4470143	(2,086.85)	0
11	2018 117	PHHS	TFSF2	4470143	(0.21)	0
11	2018 117	PHHS	WELF2	4470143	(743.16)	0
				4470143 Total	(3,126.95)	0
11	2018 117		OHPA2	4470151	124,246.87	2,508,865
				4470151 Total	124,246.87	2,508,865
11	2018 117	Physical	NASIA	4470175	(1,660,902.04)	0
11	2018 117	Trading	NASIA	4470175	1,048,488.60	0
				4470175 Total	(612,413.44)	0
11	2018 117	Physical	NASIA	4470176	1,660,902.04	0
11	2018 117	Trading	NASIA	4470176	(1,048,488.60)	0
				4470176 Total	612,413.44	0
11	2018 117		PJM	4470206	1,763.04	0
				4470206 Total	1,763.04	0
11	2018 117		PJM	4470209	(8,238.16)	0
				4470209 Total	(8,238.16)	0
11	2018 117		PJM	4470214	3.60	0
				4470214 Total	3.60	0
11	2018 117		PJM	4470215	(1.06)	0
				4470215 Total	(1.06)	0
11	2018 117		PJM	4470220	23,531.53	0
				4470220 Total	23,531.53	0
11	2018 117		PJM	4470221	3,902.57	0
				4470221 Total	3,902.57	0
11	2018 117		PJM	4470222	542.41	0
				4470222 Total	542.41	0
11	2018 117		PJM	5550039	(5.67)	0
				5550039 Total	(5.67)	0
11	2018 110		PJME2	5570007	(16.98)	(4,245)
				5570007 Total	(16.98)	(4,245)
11	2018 117		PJM	5614000	0.00	0
11	2018 117		PJM	5614000	(2,371.80)	0
				5614000 Total	(2,371.80)	0
11	2018 117		PJM	5614008	(58.09)	0
11	2018 117		PJM	5614008	(35.03)	0
11	2018 117		PJM	5614008	(184.74)	0
11	2018 117		PJM	5614008	(113.00)	0
11	2018 117		PJM	5614008	(23.52)	0
11	2018 117		PJM	5614008	(11.34)	0

11	2018 117	PJM	5614008	(17.88)	0
11	2018 117	PJM	5614008	(80.45)	0
11	2018 117	PJM	5614008	(0.04)	0
11	2018 117	PJM	5614008	(0.02)	0
11	2018 117	PJM	5614008	(1,080.09)	0
11	2018 117	PJM	5614008	(38.03)	0
11	2018 117	PJM	5614008	(37.84)	0
11	2018 117	PJM	5614008	(9.19)	0
11	2018 117	PJM	5614008	(38.27)	0
11	2018 180	PJM	5614008	0.00	0
			5614008 Total	(1,727.53)	0
11	2018 117	PJM	5618000	0.00	0
11	2018 117	PJM	5618000	(621.49)	0
11	2018 117	PJM	5618000	(14.49)	0
			5618000 Total	(635.98)	0
11	2018 117	PJM	5757000	0.00	0
11	2018 117	PJM	5757000	(2,013.99)	0
11	2018 117	PJM	5757000	(347.77)	0
			5757000 Total	(2,361.76)	0
			Grand Total	619,295.30	14,978,301

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
12	2018	117		NASIA	4470006	0.00	0
12	2018	117		PJM	4470006	(57,133.33)	(1,508,800)
12	2018	117	NEQT	DEOI2	4470006	119,272.71	2,440,000
12	2018	117	PEQT	PREE2	4470006	0.00	0
12	2018	117	PHRT	APBE2	4470006	(17.54)	0
12	2018	117	PHRT	EVOF2	4470006	0.00	0
12	2018	117	PHRT	PREE2	4470006	(7.54)	0
12	2018	117	PHRT	TFSF2	4470006	(25.84)	0
12	2018	117	PICT	AECI2	4470006	52,581.68	1,508,800
12	2018	117	PICT	AMRX2	4470006	(9.60)	0
12	2018	117	PICT	APBE2	4470006	(286.89)	0
12	2018	117	PICT	BGCF2	4470006	(19.46)	0
12	2018	117	PICT	DLPM	4470006	134,040.01	2,453,000
12	2018	117	PICT	DPLG	4470006	16,497.11	340,000
12	2018	117	PICT	EVOF2	4470006	(10.26)	0
12	2018	117	PICT	FESC	4470006	267,900.01	5,712,000
12	2018	117	PICT	IVGE2	4470006	(3.17)	0
12	2018	117	PICT	PPLT2	4470006	35,987.83	711,000
12	2018	117	PICT	PREE2	4470006	(130.02)	0
12	2018	117	PICT	TFSF2	4470006	0.00	0
12	2018	117	PICT	TRED2	4470006	0.00	0
12	2018	117	PSHD	AMRX2	4470006	(25.35)	0
12	2018	117	PSHD	APBE2	4470006	(11.09)	0
12	2018	117	PSHD	DLPM	4470006	2,726.90	0
12	2018	117	PSHD	EVOF2	4470006	(38.88)	0
12	2018	117	PSHD	IVGE2	4470006	(31.68)	0
12	2018	117	PSHD	PREE2	4470006	(158.27)	0
12	2018	117	PSHD	SPSR2	4470006	(18.85)	0
12	2018	117	PSHD	TFSF2	4470006	(7.92)	0
					4470006 Total	571,070.56	11,656,000
12	2018	117		ICET2	4470010	(818.46)	0
12	2018	117		PJM	4470010	(16,372.58)	(340,032)
12	2018	117		PJM	4470010	(116,662.83)	(2,455,784)
12	2018	117		PJM	4470010	(105,520.36)	(2,021,105)
12	2018	117		PJM	4470010	(20,922.42)	(431,654)
12	2018	117		PJM	4470010	(33,451.06)	(711,739)
12	2018	117		PJM	4470010	(294,741.46)	(5,726,661)
12	2018	117		PJM	4470010	(24.61)	0
12	2018	117		PJM	4470010	(12.99)	0
12	2018	117		PJM	4470010	(130,588.45)	(2,598,012)
12	2018	117		PJM	4470010	(313.49)	0
12	2018	117		PJM	4470010	(0.50)	0
12	2018	117	PHRT	APBE2	4470010	(34.89)	0
12	2018	117	PHRT	EVOF2	4470010	0.00	0
12	2018	117	PHRT	ICET2	4470010	(36.49)	0
12	2018	117	PHRT	PREE2	4470010	0.00	0
12	2018	117	PICT	AMRX2	4470010	(9.60)	0
12	2018	117	PICT	APBE2	4470010	(249.00)	0

12	2018 117	PICT	BGCF2	4470010	(5.81)	0
12	2018 117	PICT	EVOF2	4470010	(7.13)	0
12	2018 117	PICT	ICET2	4470010	(17.68)	0
12	2018 117	PICT	IVGE2	4470010	(3.17)	0
12	2018 117	PICT	PREE2	4470010	(64.95)	0
12	2018 117	PICT	SPSR2	4470010	0.00	0
12	2018 117	PICT	TFSF2	4470010	0.00	0
12	2018 117	PSHD	AMRX2	4470010	(25.35)	0
12	2018 117	PSHD	APBE2	4470010	(22.97)	0
12	2018 117	PSHD	EVOF2	4470010	(61.33)	0
12	2018 117	PSHD	IVGE2	4470010	(61.86)	0
12	2018 117	PSHD	PREE2	4470010	0.00	0
12	2018 117	PSHD	SPSR2	4470010	(5.65)	0
12	2018 117	PSHD	TFSF2	4470010	(47.30)	0
				4470010 Total	(720,082.39)	(14,284,987)
12	2018 117	KSHD	RBCC2	4470081	153.47	0
				4470081 Total	153.47	0
12	2018 117	PEQT	MSUI2	4470082	(1,567.96)	0
12	2018 117	PEQT	RBCC2	4470082	(34,701.78)	0
12	2018 117	PEQT	WELF2	4470082	(3.33)	0
12	2018 117	PHRT	MSUI2	4470082	(530.21)	0
12	2018 117	PHRT	RBCC2	4470082	167.81	0
12	2018 117	PHRT	WELF2	4470082	56,095.25	0
12	2018 117	PICT	MSUI2	4470082	38,182.11	0
12	2018 117	PICT	RBCC2	4470082	(5,841.95)	0
12	2018 117	PICT	WELF2	4470082	7,837.60	0
12	2018 117	PICT	WVPA	4470082	(3,122.40)	0
12	2018 117	PJST	RBCC2	4470082	233.27	0
12	2018 117	PJST	WELF2	4470082	1,426.39	0
12	2018 117	PSHD	MSUI2	4470082	52,217.87	0
12	2018 117	PSHD	RBCC2	4470082	(49,278.40)	0
12	2018 117	PSHD	WELF2	4470082	(6,035.93)	0
				4470082 Total	55,078.34	0
12	2018 117		NASIA	4470089	0.00	0
12	2018 117		PJM	4470089	4,434.83	0
				4470089 Total	4,434.83	0
12	2018 117		NASIA	4470098	0.00	0
12	2018 117		PJM	4470098	(360.77)	0
				4470098 Total	(360.77)	0
12	2018 117		NASIA	4470099	0.00	0
12	2018 117		PJM	4470099	95,803.02	0
				4470099 Total	95,803.02	0
12	2018 117		NASIA	4470100	0.00	0
12	2018 117		PJM	4470100	1,659.95	0
				4470100 Total	1,659.95	0
12	2018 117		NASIA	4470103	0.00	0
12	2018 117		PJM	4470103	486,315.11	14,491,401
				4470103 Total	486,315.11	14,491,401
12	2018 117		PJM	4470107	(0.82)	0
				4470107 Total	(0.82)	0

12	2018 117		PJM	4470110	0.01	0
				4470110 Total	0.01	0
12	2018 117		NASIA	4470112	0.00	0
12	2018 117	PHHS	DLPM	4470112	686.27	14,000
				4470112 Total	686.27	14,000
12	2018 117		NASIA	4470115	0.00	0
12	2018 117		PJM	4470115	(136.45)	0
				4470115 Total	(136.45)	0
12	2018 117		PJM	4470126	(1,215.20)	0
				4470126 Total	(1,215.20)	0
12	2018 117		PJM	4470127	15,810.42	0
				4470127 Total	15,810.42	0
12	2018 117		PJM	4470131	(520.29)	(10,060)
12	2018 117		PJM	4470131	(204.79)	(4,204)
12	2018 117		PJM	4470131	0.03	0
12	2018 117		PJM	4470131	(0.01)	0
				4470131 Total	(725.06)	(14,264)
12	2018 117	PHHS	AMRX2	4470143	(0.15)	0
12	2018 117	PHHS	APBE2	4470143	(0.18)	0
12	2018 117	PHHS	EVOF2	4470143	(0.46)	0
12	2018 117	PHHS	ICET2	4470143	(0.15)	0
12	2018 117	PHHS	IVGE2	4470143	(3.11)	0
12	2018 117	PHHS	MSUI2	4470143	(92.00)	0
12	2018 117	PHHS	RBCC2	4470143	(940.27)	0
12	2018 117	PHHS	TFSF2	4470143	0.00	0
12	2018 117	PHHS	WELF2	4470143	(211.41)	0
				4470143 Total	(1,247.73)	0
12	2018 117		OHPA2	4470151	130,635.17	2,637,670
				4470151 Total	130,635.17	2,637,670
12	2018 117	Physical	NASIA	4470175	(296,920.45)	0
12	2018 117	Trading	NASIA	4470175	(99,577.35)	0
				4470175 Total	(396,497.80)	0
12	2018 117	Physical	NASIA	4470176	296,920.45	0
12	2018 117	Trading	NASIA	4470176	99,577.35	0
				4470176 Total	396,497.80	0
12	2018 117		PJM	4470206	547.14	0
				4470206 Total	547.14	0
12	2018 117		PJM	4470209	(2,404.16)	0
				4470209 Total	(2,404.16)	0
12	2018 117		NASIA	4470214	0.00	0
12	2018 117		PJM	4470214	11.25	0
				4470214 Total	11.25	0
12	2018 117		NASIA	4470215	0.00	0
12	2018 117		PJM	4470215	(5.54)	0
				4470215 Total	(5.54)	0
12	2018 117		NASIA	4470220	0.00	0
12	2018 117		PJM	4470220	1,695.10	0
				4470220 Total	1,695.10	0
12	2018 117		NASIA	4470221	0.00	0
12	2018 117		PJM	4470221	1,080.93	0

			4470221 Total	1,080.93	0
12	2018 117	NASIA	4470222	0.00	0
			4470222 Total	0.00	0
12	2018 117	PJM	5550039	172.96	0
			5550039 Total	172.96	0
12	2018 110	CARB2	5570007	(961.86)	(113)
12	2018 110	PJME2	5570007	(15.00)	(3,750)
			5570007 Total	(976.86)	(3,863)
12	2018 117	PJM	5614000	0.00	0
12	2018 117	PJM	5614000	(2,364.46)	0
			5614000 Total	(2,364.46)	0
12	2018 117	PJM	5614008	(73.74)	0
12	2018 117	PJM	5614008	(44.47)	0
12	2018 117	PJM	5614008	(234.50)	0
12	2018 117	PJM	5614008	(1.69)	0
12	2018 117	PJM	5614008	(0.35)	0
12	2018 117	PJM	5614008	(0.17)	0
12	2018 117	PJM	5614008	(22.69)	0
12	2018 117	PJM	5614008	(102.12)	0
12	2018 117	PJM	5614008	(0.05)	0
12	2018 117	PJM	5614008	(0.03)	0
12	2018 117	PJM	5614008	(3,211.68)	0
12	2018 117	PJM	5614008	(0.57)	0
12	2018 117	PJM	5614008	(48.04)	0
12	2018 117	PJM	5614008	(27.35)	0
12	2018 117	PJM	5614008	(113.80)	0
12	2018 180	PJM	5614008	0.00	0
			5614008 Total	(3,881.25)	0
12	2018 117	PJM	5618000	0.00	0
12	2018 117	PJM	5618000	(620.48)	0
12	2018 117	PJM	5618000	(14.98)	0
			5618000 Total	(635.46)	0
12	2018 117	PJM	5757000	0.00	0
12	2018 117	PJM	5757000	(2,041.77)	0
12	2018 117	PJM	5757000	(359.36)	0
			5757000 Total	(2,401.13)	0
			Grand Total	628,717.25	14,495,957

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
1	2019	117		PJM	4470006	(25.18)	0
1	2019	117	NEQT	DEOI2	4470006	110,436.17	2,259,000
1	2019	117	PEQT	AMRX2	4470006	(27.31)	0
1	2019	117	PEQT	EVOF2	4470006	(60.52)	0
1	2019	117	PEQT	PREE2	4470006	(113.86)	0
1	2019	117	PHRT	AMRX2	4470006	(24.14)	0
1	2019	117	PHRT	APBE2	4470006	(100.18)	0
1	2019	117	PHRT	EVOF2	4470006	(16.60)	0
1	2019	117	PHRT	IVGE2	4470006	(629.17)	0
1	2019	117	PHRT	PREE2	4470006	(30.18)	0
1	2019	117	PHRT	TFSF2	4470006	0.00	0
1	2019	117	PICT	AECI2	4470006	0.00	0
1	2019	117	PICT	AMRX2	4470006	(132.96)	0
1	2019	117	PICT	APBE2	4470006	(78.13)	0
1	2019	117	PICT	BGCF2	4470006	0.00	0
1	2019	117	PICT	DLPM	4470006	147,187.26	2,696,000
1	2019	117	PICT	DPLG	4470006	16,630.78	342,000
1	2019	117	PICT	EVOF2	4470006	(95.07)	0
1	2019	117	PICT	FESC	4470006	305,885.73	6,521,000
1	2019	117	PICT	IVGE2	4470006	(108.69)	0
1	2019	117	PICT	PPLT2	4470006	39,729.25	783,000
1	2019	117	PICT	PREE2	4470006	(194.81)	0
1	2019	117	PICT	TRED2	4470006	(151.00)	0
1	2019	117	PSHD	AMRX2	4470006	(16.60)	0
1	2019	117	PSHD	APBE2	4470006	0.00	0
1	2019	117	PSHD	DLPM	4470006	(6,849.27)	0
1	2019	117	PSHD	EVOF2	4470006	(15.84)	0
1	2019	117	PSHD	IVGE2	4470006	(15.09)	0
1	2019	117	PSHD	PREE2	4470006	(46.77)	0
1	2019	117	PSHD	SPSR2	4470006	0.00	0
1	2019	117	PSHD	TFSF2	4470006	(23.01)	0
					4470006 Total	611,114.81	12,601,000
1	2019	117		ICET2	4470010	(812.91)	0
1	2019	117		PJM	4470010	(16,331.88)	(341,775)
1	2019	117		PJM	4470010	(107,875.08)	(2,258,539)
1	2019	117		PJM	4470010	(111,650.25)	(2,189,929)
1	2019	117		PJM	4470010	(23,764.87)	(505,974)
1	2019	117		PJM	4470010	(37,483.50)	(783,476)
1	2019	117		PJM	4470010	(317,692.58)	(6,520,976)
1	2019	117		PJM	4470010	(32.81)	0
1	2019	117		PJM	4470010	(18.64)	0
1	2019	117		PJM	4470010	(152,048.49)	(3,288,978)
1	2019	117	PEQT	AMRX2	4470010	(27.31)	0
1	2019	117	PEQT	EVOF2	4470010	(60.52)	0
1	2019	117	PHRT	AMRX2	4470010	(24.14)	0
1	2019	117	PHRT	APBE2	4470010	(101.69)	0
1	2019	117	PHRT	EVOF2	4470010	(8.30)	0
1	2019	117	PHRT	ICET2	4470010	(27.72)	0

1	2019 117	PHRT	IVGE2	4470010	(621.25)	0
1	2019 117	PHRT	PREE2	4470010	(7.92)	0
1	2019 117	PICT	AMRX2	4470010	(132.02)	0
1	2019 117	PICT	APBE2	4470010	(109.68)	0
1	2019 117	PICT	BGCF2	4470010	(3.96)	0
1	2019 117	PICT	EVOF2	4470010	(61.44)	0
1	2019 117	PICT	ICET2	4470010	(17.68)	0
1	2019 117	PICT	IVGE2	4470010	(105.52)	0
1	2019 117	PICT	PREE2	4470010	(86.49)	0
1	2019 117	PICT	TFSF2	4470010	(64.31)	0
1	2019 117	PSHD	AMRX2	4470010	(5.81)	0
1	2019 117	PSHD	APBE2	4470010	(1.51)	0
1	2019 117	PSHD	BGCF2	4470010	(7.92)	0
1	2019 117	PSHD	EVOF2	4470010	(7.92)	0
1	2019 117	PSHD	IVGE2	4470010	(15.09)	0
1	2019 117	PSHD	PREE2	4470010	(23.39)	0
1	2019 117	PSHD	SPSR2	4470010	(3.77)	0
1	2019 117	PSHD	TFSF2	4470010	(23.76)	0
			4470010 Total		(769,260.13)	(15,889,647)
1	2019 117	PEQT	MSUI2	4470082	(2,080.80)	0
1	2019 117	PEQT	RBCC2	4470082	2,579.51	0
1	2019 117	PEQT	WELF2	4470082	(4,140.06)	0
1	2019 117	PHRT	MSUI2	4470082	0.00	0
1	2019 117	PHRT	RBCC2	4470082	(27,083.71)	0
1	2019 117	PHRT	WELF2	4470082	(42,954.66)	0
1	2019 117	PICT	MSUI2	4470082	6,864.92	0
1	2019 117	PICT	RBCC2	4470082	19,610.03	0
1	2019 117	PICT	WELF2	4470082	(26,752.67)	0
1	2019 117	PICT	WVPA	4470082	0.00	0
1	2019 117	PJST	RBCC2	4470082	87.32	0
1	2019 117	PJST	WELF2	4470082	0.00	0
1	2019 117	PSHD	MSUI2	4470082	49,747.10	0
1	2019 117	PSHD	RBCC2	4470082	(125,578.87)	0
1	2019 117	PSHD	WELF2	4470082	50,101.18	0
			4470082 Total		(99,600.71)	0
1	2019 117		PJM	4470089	846,485.34	0
			4470089 Total		846,485.34	0
1	2019 117		PJM	4470098	(1,479.95)	0
			4470098 Total		(1,479.95)	0
1	2019 117		PJM	4470099	95,803.02	0
			4470099 Total		95,803.02	0
1	2019 117		PJM	4470100	45,485.75	0
			4470100 Total		45,485.75	0
1	2019 117		PJM	4470103	2,409,279.38	81,843,655
			4470103 Total		2,409,279.38	81,843,655
1	2019 117		PJM	4470107	(0.84)	0
			4470107 Total		(0.84)	0
1	2019 117	PHHS	DLPM	4470112	42,702.46	788,000
			4470112 Total		42,702.46	788,000
1	2019 117		PJM	4470115	(245.04)	0

				4470115 Total	(245.04)	0
1	2019 117		PJM	4470126	(106,009.85)	0
				4470126 Total	(106,009.85)	0
1	2019 117		PJM	4470127	15,810.42	0
				4470127 Total	15,810.42	0
1	2019 117		PJM	4470131	(27,494.02)	(546,902)
1	2019 117		PJM	4470131	(11,339.71)	(240,630)
1	2019 117		PJM	4470131	0.00	0
1	2019 117		PJM	4470131	(0.01)	0
				4470131 Total	(38,833.74)	(787,532)
1	2019 117	PHHS	AMRX2	4470143	(109.00)	0
1	2019 117	PHHS	APBE2	4470143	(56.07)	0
1	2019 117	PHHS	EVOF2	4470143	(35.87)	0
1	2019 117	PHHS	ICET2	4470143	(0.17)	0
1	2019 117	PHHS	IVGE2	4470143	0.03	0
1	2019 117	PHHS	MSUI2	4470143	89,194.26	0
1	2019 117	PHHS	PREE2	4470143	(31.48)	0
1	2019 117	PHHS	RBCC2	4470143	129,884.99	0
1	2019 117	PHHS	TFSF2	4470143	(3.66)	0
1	2019 117	PHHS	WELF2	4470143	(9,483.92)	0
				4470143 Total	209,359.11	0
1	2019 117		OHPA2	4470151	162,904.63	3,289,078
				4470151 Total	162,904.63	3,289,078
1	2019 117	Physical	NASIA	4470175	255,006.61	0
1	2019 117	Trading	NASIA	4470175	(24,245.99)	0
				4470175 Total	230,760.62	0
1	2019 117	Physical	NASIA	4470176	(255,006.61)	0
1	2019 117	Trading	NASIA	4470176	24,245.99	0
				4470176 Total	(230,760.62)	0
1	2019 117		PJM	4470206	18,905.82	0
				4470206 Total	18,905.82	0
1	2019 117		PJM	4470209	(98,270.16)	0
				4470209 Total	(98,270.16)	0
1	2019 117		PJM	4470214	3.60	0
				4470214 Total	3.60	0
1	2019 117		PJM	4470215	83.29	0
				4470215 Total	83.29	0
1	2019 117		PJM	4470220	49,416.80	0
				4470220 Total	49,416.80	0
1	2019 117		PJM	4470221	846.45	0
				4470221 Total	846.45	0
1	2019 117		PJM	5550039	(2,023.77)	0
				5550039 Total	(2,023.77)	0
1	2019 110		MRETS	5570007	(207.46)	0
1	2019 110		PJME2	5570007	(15.77)	(3,943)
				5570007 Total	(223.23)	(3,943)
1	2019 117		PJM	5614000	0.00	0
1	2019 117		PJM	5614000	(13,002.82)	0
				5614000 Total	(13,002.82)	0
1	2019 117		PJM	5614008	(25.47)	0

1	2019 117	PJM	5614008	(59.70)	0
1	2019 117	PJM	5614008	(314.82)	0
1	2019 117	PJM	5614008	(2.46)	0
1	2019 117	PJM	5614008	(0.51)	0
1	2019 117	PJM	5614008	(0.25)	0
1	2019 117	PJM	5614008	(30.47)	0
1	2019 117	PJM	5614008	(137.10)	0
1	2019 117	PJM	5614008	(0.07)	0
1	2019 117	PJM	5614008	(0.04)	0
1	2019 117	PJM	5614008	0.00	0
1	2019 117	PJM	5614008	(0.83)	0
1	2019 117	PJM	5614008	(64.49)	0
1	2019 117	PJM	5614008	0.00	0
1	2019 117	PJM	5614008	0.00	0
1	2019 180	PJM	5614008	0.00	0
			5614008 Total	(636.21)	0
1	2019 117	PJM	5618000	0.00	0
1	2019 117	PJM	5618000	(3,501.17)	0
1	2019 117	PJM	5618000	(17.71)	0
			5618000 Total	(3,518.88)	0
1	2019 117	PJM	5757000	0.00	0
1	2019 117	PJM	5757000	(10,841.74)	0
1	2019 117	PJM	5757000	(425.05)	0
			5757000 Total	(11,266.79)	0
			Grand Total	3,363,828.76	81,840,611

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
2	2019	117		PJM	4470006	52.04	(94)
2	2019	117	NEQT	DEOI2	4470006	91,489.81	1,871,000
2	2019	117	PEQT	AMRX2	4470006	0.00	0
2	2019	117	PEQT	APBE2	4470006	(15.84)	0
2	2019	117	PEQT	EVOF2	4470006	0.00	0
2	2019	117	PEQT	PREE2	4470006	0.00	0
2	2019	117	PHRT	AMRX2	4470006	(17.92)	0
2	2019	117	PHRT	APBE2	4470006	(39.02)	0
2	2019	117	PHRT	EVOF2	4470006	(39.17)	0
2	2019	117	PHRT	IVGE2	4470006	(33.19)	0
2	2019	117	PHRT	PREE2	4470006	(78.05)	0
2	2019	117	PHRT	SPSR2	4470006	(3.77)	0
2	2019	117	PICT	AMRX2	4470006	(310.97)	0
2	2019	117	PICT	APBE2	4470006	(192.70)	0
2	2019	117	PICT	DLPM	4470006	128,760.29	2,362,000
2	2019	117	PICT	DPLG	4470006	13,870.81	285,000
2	2019	117	PICT	EVOF2	4470006	(30.55)	0
2	2019	117	PICT	FESC	4470006	268,589.51	5,726,000
2	2019	117	PICT	IVGE2	4470006	(66.39)	0
2	2019	117	PICT	PPLT2	4470006	35,836.87	708,000
2	2019	117	PICT	PREE2	4470006	(217.88)	0
2	2019	117	PICT	TFSF2	4470006	(64.96)	0
2	2019	117	PICT	TRED2	4470006	(82.83)	0
2	2019	117	PSHD	AMRX2	4470006	0.00	0
2	2019	117	PSHD	DLPM	4470006	(4,909.86)	0
2	2019	117	PSHD	EVOF2	4470006	(24.52)	0
2	2019	117	PSHD	IVGE2	4470006	0.00	0
2	2019	117	PSHD	PREE2	4470006	0.00	0
2	2019	117	PSHD	SPSR2	4470006	(3.77)	0
2	2019	117	PSHD	TFSF2	4470006	(9.96)	0
					4470006 Total	532,457.98	10,951,906
2	2019	117		ICET2	4470010	(808.06)	0
2	2019	117		PJM	4470010	9.45	0
2	2019	117		PJM	4470010	(11,970.91)	(285,386)
2	2019	117		PJM	4470010	(77,698.96)	(1,874,487)
2	2019	117		PJM	4470010	(86,751.84)	(1,877,893)
2	2019	117		PJM	4470010	(19,907.51)	(473,363)
2	2019	117		PJM	4470010	(28,668.60)	(706,426)
2	2019	117		PJM	4470010	(249,475.10)	(5,733,062)
2	2019	117		PJM	4470010	(118.84)	0
2	2019	117		PJM	4470010	(67.75)	0
2	2019	117		PJM	4470010	(115,088.35)	(2,811,391)
2	2019	117		PJM	4470010	(19.55)	0
2	2019	117	PEQT	AMRX2	4470010	0.00	0
2	2019	117	PEQT	APBE2	4470010	(15.84)	0
2	2019	117	PEQT	EVOF2	4470010	0.00	0
2	2019	117	PHRD	TVAM	4470010	(353.63)	(14,145)
2	2019	117	PHRT	AMRX2	4470010	(17.92)	0

2	2019 117	PHRT	APBE2	4470010	(48.07)	0
2	2019 117	PHRT	EVOF2	4470010	(39.17)	0
2	2019 117	PHRT	ICET2	4470010	(36.21)	0
2	2019 117	PHRT	IVGE2	4470010	(33.19)	0
2	2019 117	PHRT	PREE2	4470010	0.00	0
2	2019 117	PICT	AMRX2	4470010	(315.59)	0
2	2019 117	PICT	APBE2	4470010	(142.99)	0
2	2019 117	PICT	BGCF2	4470010	0.00	0
2	2019 117	PICT	EVOF2	4470010	(8.30)	0
2	2019 117	PICT	IVGE2	4470010	(30.18)	0
2	2019 117	PICT	PREE2	4470010	(315.74)	0
2	2019 117	PICT	TFSF2	4470010	(44.93)	0
2	2019 117	PICT	TRED2	4470010	(82.83)	0
2	2019 117	PSHD	AMRX2	4470010	0.00	0
2	2019 117	PSHD	APBE2	4470010	0.00	0
2	2019 117	PSHD	BGCF2	4470010	0.00	0
2	2019 117	PSHD	EVOF2	4470010	0.00	0
2	2019 117	PSHD	IVGE2	4470010	0.00	0
2	2019 117	PSHD	PREE2	4470010	0.00	0
2	2019 117	PSHD	SPSR2	4470010	(3.77)	0
2	2019 117	PSHD	TFSF2	4470010	(21.84)	0
				4470010 Total	(592,076.22)	(13,776,153)
2	2019 117	PEQT	MSUI2	4470082	(3,533.27)	0
2	2019 117	PEQT	RBCC2	4470082	1,294.72	0
2	2019 117	PEQT	WELF2	4470082	(11,745.21)	0
2	2019 117	PHRT	MSUI2	4470082	3,970.07	0
2	2019 117	PHRT	RBCC2	4470082	498.94	0
2	2019 117	PHRT	WELF2	4470082	(62,140.62)	0
2	2019 117	PICT	MSUI2	4470082	(68,922.83)	0
2	2019 117	PICT	RBCC2	4470082	9,534.62	0
2	2019 117	PICT	WELF2	4470082	43,422.35	0
2	2019 117	PJST	WELF2	4470082	11,062.04	0
2	2019 117	PMCB	WELF2	4470082	(9.39)	0
2	2019 117	PSHD	MSUI2	4470082	54,249.79	0
2	2019 117	PSHD	RBCC2	4470082	(127,196.82)	0
2	2019 117	PSHD	WELF2	4470082	24,713.43	0
				4470082 Total	(124,802.18)	0
2	2019 117		PJM	4470089	301,985.23	0
				4470089 Total	301,985.23	0
2	2019 117		PJM	4470098	(5,616.28)	0
				4470098 Total	(5,616.28)	0
2	2019 117		PJM	4470099	86,531.76	0
				4470099 Total	86,531.76	0
2	2019 117		PJM	4470100	(8,268.54)	0
				4470100 Total	(8,268.54)	0
2	2019 117		PJM	4470103	1,913,003.15	74,479,611
				4470103 Total	1,913,003.15	74,479,611
2	2019 117		PJM	4470107	0.23	0
				4470107 Total	0.23	0
2	2019 117		PJM	4470110	(0.01)	0

				4470110 Total	(0.01)	0
2	2019 117	PHHS	DLPM	4470112	41,243.63	771,000
				4470112 Total	41,243.63	771,000
2	2019 117		PJM	4470115	3,743.20	0
				4470115 Total	3,743.20	0
2	2019 117		PJM	4470126	10,329.15	0
				4470126 Total	10,329.15	0
2	2019 117		PJM	4470127	14,280.38	0
				4470127 Total	14,280.38	0
2	2019 117		PJM	4470131	5.12	0
2	2019 117		PJM	4470131	(23,541.28)	(509,318)
2	2019 117		PJM	4470131	(11,071.61)	(262,086)
2	2019 117		PJM	4470131	8.48	0
2	2019 117		PJM	4470131	2.24	0
				4470131 Total	(34,597.05)	(771,404)
2	2019 117	PHHS	AMRX2	4470143	(31.06)	0
2	2019 117	PHHS	APBE2	4470143	(46.39)	0
2	2019 117	PHHS	EVOF2	4470143	0.00	0
2	2019 117	PHHS	IVGE2	4470143	(160.22)	0
2	2019 117	PHHS	MSUI2	4470143	108,712.68	0
2	2019 117	PHHS	PREE2	4470143	(26.98)	0
2	2019 117	PHHS	RBCC2	4470143	253,040.08	0
2	2019 117	PHHS	TFSF2	4470143	(25.14)	0
2	2019 117	PHHS	WELF2	4470143	(7,990.09)	0
				4470143 Total	353,472.88	0
2	2019 117		OHPA2	4470151	139,256.12	2,811,472
				4470151 Total	139,256.12	2,811,472
2	2019 117	Physical	NASIA	4470175	17,010.44	0
2	2019 117	Trading	NASIA	4470175	(6,310.34)	0
				4470175 Total	10,700.10	0
2	2019 117	Physical	NASIA	4470176	(17,010.44)	0
2	2019 117	Trading	NASIA	4470176	6,310.34	0
				4470176 Total	(10,700.10)	0
2	2019 117		PJM	4470206	7,843.79	0
				4470206 Total	7,843.79	0
2	2019 117		PJM	4470209	(44,303.66)	0
				4470209 Total	(44,303.66)	0
2	2019 117		PJM	4470214	0.45	0
				4470214 Total	0.45	0
2	2019 117		PJM	4470215	75.01	0
				4470215 Total	75.01	0
2	2019 117		PJM	4470220	16,586.97	0
				4470220 Total	16,586.97	0
2	2019 117		PJM	4470221	234.19	0
				4470221 Total	234.19	0
2	2019 117		PJM	4470222	97,689.88	0
				4470222 Total	97,689.88	0
2	2019 117		PJM	5550039	(480.25)	0
				5550039 Total	(480.25)	0
2	2019 110		PJME2	5570007	(18.48)	(4,620)

			5570007 Total	(18.48)	(4,620)
2	2019 117	PJM	5614000	0.00	0
2	2019 117	PJM	5614000	(11,070.99)	0
			5614000 Total	(11,070.99)	0
2	2019 117	PJM	5614008	(55.75)	0
2	2019 117	PJM	5614008	(33.62)	0
2	2019 117	PJM	5614008	(177.28)	0
2	2019 117	PJM	5614008	(67.81)	0
2	2019 117	PJM	5614008	(14.11)	0
2	2019 117	PJM	5614008	(6.81)	0
2	2019 117	PJM	5614008	(17.16)	0
2	2019 117	PJM	5614008	(77.20)	0
2	2019 117	PJM	5614008	(0.04)	0
2	2019 117	PJM	5614008	(0.02)	0
2	2019 117	PJM	5614008	(1,036.48)	0
2	2019 117	PJM	5614008	(22.82)	0
2	2019 117	PJM	5614008	(36.31)	0
2	2019 117	PJM	5614008	(8.83)	0
2	2019 117	PJM	5614008	(36.73)	0
2	2019 180	PJM	5614008	0.00	0
			5614008 Total	(1,590.97)	0
2	2019 117	PJM	5618000	0.00	0
2	2019 117	PJM	5618000	(2,959.42)	0
2	2019 117	PJM	5618000	(14.79)	0
			5618000 Total	(2,974.21)	0
2	2019 117	PJM	5757000	0.00	0
2	2019 117	PJM	5757000	(9,474.65)	0
2	2019 117	PJM	5757000	(354.98)	0
			5757000 Total	(9,829.63)	0
			Grand Total	2,683,105.53	74,461,812

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
3	2019	117		PJM	4470006	140.68	14,239
3	2019	117	NEQT	DEOI2	4470006	113,264.04	2,316,000
3	2019	117	PEQT	AMRX2	4470006	(9.24)	0
3	2019	117	PEQT	APBE2	4470006	0.00	0
3	2019	117	PEQT	IVGE2	4470006	(111.65)	0
3	2019	117	PEQT	TFSF2	4470006	(24.14)	0
3	2019	117	PHRT	AMRX2	4470006	0.00	0
3	2019	117	PHRT	APBE2	4470006	0.00	0
3	2019	117	PHRT	EVOF2	4470006	(19.27)	0
3	2019	117	PHRT	IVGE2	4470006	0.00	0
3	2019	117	PHRT	PREE2	4470006	0.00	0
3	2019	117	PHRT	SPSR2	4470006	0.00	0
3	2019	117	PICT	AMRX2	4470006	(58.09)	0
3	2019	117	PICT	APBE2	4470006	(151.03)	0
3	2019	117	PICT	BGCF2	4470006	(3.77)	0
3	2019	117	PICT	DLPM	4470006	127,238.47	2,335,000
3	2019	117	PICT	DPLG	4470006	14,914.74	306,000
3	2019	117	PICT	EVOF2	4470006	(304.42)	0
3	2019	117	PICT	FESC	4470006	270,490.64	5,766,000
3	2019	117	PICT	IVGE2	4470006	(33.19)	0
3	2019	117	PICT	PPLT2	4470006	35,042.13	692,000
3	2019	117	PICT	PREE2	4470006	(265.65)	0
3	2019	117	PICT	TFSF2	4470006	(8.30)	0
3	2019	117	PICT	TRED2	4470006	(51.68)	0
3	2019	117	PSHD	AMRX2	4470006	(12.45)	0
3	2019	117	PSHD	DLPM	4470006	(1,123.14)	0
3	2019	117	PSHD	EVOF2	4470006	0.00	0
3	2019	117	PSHD	IVGE2	4470006	(33.19)	0
3	2019	117	PSHD	PREE2	4470006	(59.75)	0
3	2019	117	PSHD	SPSR2	4470006	(16.60)	0
3	2019	117	PSHD	TFSF2	4470006	(8.30)	0
					4470006 Total	558,796.84	11,429,239
3	2019	117		ICET2	4470010	(740.70)	0
3	2019	117		PJM	4470010	23.52	0
3	2019	117		PJM	4470010	(14,275.12)	(306,179)
3	2019	117		PJM	4470010	(104,086.43)	(2,312,988)
3	2019	117		PJM	4470010	(94,605.30)	(1,839,644)
3	2019	117		PJM	4470010	(23,066.83)	(506,063)
3	2019	117		PJM	4470010	(30,591.17)	(693,517)
3	2019	117		PJM	4470010	(276,723.92)	(5,759,236)
3	2019	117		PJM	4470010	(104.74)	0
3	2019	117		PJM	4470010	(58.90)	0
3	2019	117		PJM	4470010	(121,872.16)	(2,588,804)
3	2019	117		PJM	4470010	4.60	0
3	2019	117		PJM	4470010	(2.50)	0
3	2019	117		PJM	4470010	1.31	0
3	2019	117		PJM	4470010	0.55	0
3	2019	117		PJM	4470010	0.23	0

3	2019 117		PJM	4470010	0.68	0
3	2019 117	PEQT	AMRX2	4470010	(9.24)	0
3	2019 117	PEQT	APBE2	4470010	0.00	0
3	2019 117	PEQT	IVGE2	4470010	(111.65)	0
3	2019 117	PHRD	TVAM	4470010	0.00	0
3	2019 117	PHRT	AMRX2	4470010	0.00	0
3	2019 117	PHRT	APBE2	4470010	(2.26)	0
3	2019 117	PHRT	EVOF2	4470010	(19.27)	0
3	2019 117	PHRT	ICET2	4470010	(43.28)	0
3	2019 117	PHRT	IVGE2	4470010	0.00	0
3	2019 117	PICT	AMRX2	4470010	(77.02)	0
3	2019 117	PICT	APBE2	4470010	(176.11)	0
3	2019 117	PICT	EVOF2	4470010	(324.38)	0
3	2019 117	PICT	IVGE2	4470010	(48.28)	0
3	2019 117	PICT	PREE2	4470010	(165.69)	0
3	2019 117	PICT	SPSR2	4470010	(3.96)	0
3	2019 117	PICT	TFSF2	4470010	(117.46)	0
3	2019 117	PICT	TRED2	4470010	66.23	0
3	2019 117	PSHD	AMRX2	4470010	(16.60)	0
3	2019 117	PSHD	APBE2	4470010	(16.60)	0
3	2019 117	PSHD	EVOF2	4470010	(24.90)	0
3	2019 117	PSHD	IVGE2	4470010	(33.19)	0
3	2019 117	PSHD	PREE2	4470010	(49.79)	0
3	2019 117	PSHD	SPSR2	4470010	(18.86)	0
3	2019 117	PSHD	TFSF2	4470010	(92.11)	0
				4470010 Total	(667,381.30)	(14,006,431)
3	2019 117	PEQT	MSUI2	4470082	(4,837.79)	0
3	2019 117	PEQT	RBCC2	4470082	0.00	0
3	2019 117	PEQT	WELF2	4470082	(1,727.16)	0
3	2019 117	PHRT	MSUI2	4470082	0.00	0
3	2019 117	PHRT	RBCC2	4470082	1,329.60	0
3	2019 117	PHRT	WELF2	4470082	(5,052.69)	0
3	2019 117	PICT	MSUI2	4470082	2,295.79	0
3	2019 117	PICT	RBCC2	4470082	(42,587.27)	0
3	2019 117	PICT	WELF2	4470082	38,353.74	0
3	2019 117	PMCB	WELF2	4470082	(40.79)	0
3	2019 117	PSHD	MSUI2	4470082	(112,029.24)	0
3	2019 117	PSHD	RBCC2	4470082	40,490.30	0
3	2019 117	PSHD	WELF2	4470082	73,988.27	0
				4470082 Total	(9,817.24)	0
3	2019 117		PJM	4470089	247,219.62	0
				4470089 Total	247,219.62	0
3	2019 117		PJM	4470098	(3,900.80)	0
				4470098 Total	(3,900.80)	0
3	2019 117		PJM	4470099	95,803.01	0
				4470099 Total	95,803.01	0
3	2019 117		PJM	4470100	13,017.95	0
				4470100 Total	13,017.95	0
3	2019 117		PJM	4470103	2,085,361.09	71,803,376
				4470103 Total	2,085,361.09	71,803,376

3	2019 117		PJM	4470107	0.20	0
				4470107 Total	0.20	0
3	2019 117		PJM	4470110	0.01	0
				4470110 Total	0.01	0
3	2019 117	PHHS	DLPM	4470112	159,930.49	3,149,000
				4470112 Total	159,930.49	3,149,000
3	2019 117		PJM	4470115	1,264.70	0
				4470115 Total	1,264.70	0
3	2019 117		PJM	4470126	15,142.02	0
				4470126 Total	15,142.02	0
3	2019 117		PJM	4470127	15,810.42	0
				4470127 Total	15,810.42	0
3	2019 117		PJM	4470131	15.46	0
3	2019 117		PJM	4470131	(105,494.00)	(2,047,261)
3	2019 117		PJM	4470131	(51,156.48)	(1,101,726)
3	2019 117		PJM	4470131	1.57	0
3	2019 117		PJM	4470131	2.57	0
3	2019 117		PJM	4470131	4.53	0
3	2019 117		PJM	4470131	0.01	0
				4470131 Total	(156,626.34)	(3,148,987)
3	2019 117	PHHS	AMRX2	4470143	(40.53)	0
3	2019 117	PHHS	APBE2	4470143	(87.53)	0
3	2019 117	PHHS	EVOF2	4470143	(314.93)	0
3	2019 117	PHHS	IVGE2	4470143	(536.34)	0
3	2019 117	PHHS	MSUI2	4470143	1,247.45	0
3	2019 117	PHHS	PREE2	4470143	(8.71)	0
3	2019 117	PHHS	RBCC2	4470143	26,847.84	0
3	2019 117	PHHS	TFSF2	4470143	(80.57)	0
3	2019 117	PHHS	WELF2	4470143	(16,798.10)	0
				4470143 Total	10,228.58	0
3	2019 117		OHPA2	4470151	128,117.87	2,586,955
				4470151 Total	128,117.87	2,586,955
3	2019 117	Physical	NASIA	4470175	(257,651.45)	0
3	2019 117	Trading	NASIA	4470175	(3,747.36)	0
				4470175 Total	(261,398.81)	0
3	2019 117	Physical	NASIA	4470176	257,651.45	0
3	2019 117	Trading	NASIA	4470176	3,747.36	0
				4470176 Total	261,398.81	0
3	2019 117		PJM	4470206	9,478.60	0
				4470206 Total	9,478.60	0
3	2019 117		PJM	4470209	(37,631.08)	0
				4470209 Total	(37,631.08)	0
3	2019 117		PJM	4470214	11.24	0
				4470214 Total	11.24	0
3	2019 117		PJM	4470215	(9.60)	0
				4470215 Total	(9.60)	0
3	2019 117		PJM	4470220	49,108.45	0
				4470220 Total	49,108.45	0
3	2019 117		PJM	4470221	4,889.43	0
				4470221 Total	4,889.43	0

3	2019 117	PJM	5550039	(132.68)	0
			5550039 Total	(132.68)	0
3	2019 110	PJME2	5570007	(20.45)	(5,113)
			5570007 Total	(20.45)	(5,113)
3	2019 117	PJM	5614000	0.00	0
3	2019 117	PJM	5614000	(9,715.74)	0
			5614000 Total	(9,715.74)	0
3	2019 117	PJM	5614008	(73.53)	0
3	2019 117	PJM	5614008	(133.68)	0
3	2019 117	PJM	5614008	(80.62)	0
3	2019 117	PJM	5614008	(425.12)	0
3	2019 117	PJM	5614008	(193.36)	0
3	2019 117	PJM	5614008	(40.25)	0
3	2019 117	PJM	5614008	(19.41)	0
3	2019 117	PJM	5614008	(41.14)	0
3	2019 117	PJM	5614008	(185.13)	0
3	2019 117	PJM	5614008	(0.10)	0
3	2019 117	PJM	5614008	(0.05)	0
3	2019 117	PJM	5614008	(2,485.52)	0
3	2019 117	PJM	5614008	(65.07)	0
3	2019 117	PJM	5614008	(87.08)	0
3	2019 117	PJM	5614008	(133.96)	0
3	2019 117	PJM	5614008	(88.07)	0
3	2019 180	PJM	5614008	0.00	0
			5614008 Total	(4,052.09)	0
3	2019 117	PJM	5618000	0.00	0
3	2019 117	PJM	5618000	(2,847.55)	0
3	2019 117	PJM	5618000	(15.03)	0
			5618000 Total	(2,862.58)	0
3	2019 117	PJM	5757000	0.00	0
3	2019 117	PJM	5757000	(8,945.47)	0
3	2019 117	PJM	5757000	(360.94)	0
			5757000 Total	(9,306.41)	0
			Grand Total	2,492,724.21	71,808,039

Pd	Year	Unit	Ref	Trkg Cd	Account	Revenue	KWH Metered
4	2019	117		NASIA	4470006	0.00	0
4	2019	117		PJM	4470006	2.11	0
4	2019	117	NEQT	DEOI2	4470006	88,737.83	1,599,000
4	2019	117	PEQT	AMRX2	4470006	0.00	0
4	2019	117	PEQT	IVGE2	4470006	0.00	0
4	2019	117	PEQT	TFSF2	4470006	0.00	0
4	2019	117	PHRT	APBE2	4470006	(5.66)	0
4	2019	117	PHRT	EVOF2	4470006	0.00	0
4	2019	117	PHRT	PREE2	4470006	(22.56)	0
4	2019	117	PICT	AMRX2	4470006	(1,006.15)	0
4	2019	117	PICT	APBE2	4470006	(162.43)	0
4	2019	117	PICT	BGCF2	4470006	0.00	0
4	2019	117	PICT	DLPM	4470006	97,747.99	1,797,000
4	2019	117	PICT	DPLG	4470006	9,835.14	202,000
4	2019	117	PICT	EVOF2	4470006	(97.16)	0
4	2019	117	PICT	FESC	4470006	211,965.28	4,519,000
4	2019	117	PICT	IVGE2	4470006	(16.60)	0
4	2019	117	PICT	PPLT2	4470006	28,370.78	559,000
4	2019	117	PICT	PREE2	4470006	(442.47)	0
4	2019	117	PICT	PVMF2	4470006	(56.20)	0
4	2019	117	PICT	SPSR2	4470006	(2.72)	0
4	2019	117	PICT	TFSF2	4470006	(12.99)	0
4	2019	117	PICT	TRED2	4470006	(5.54)	0
4	2019	117	PSHD	AMRX2	4470006	(12.07)	0
4	2019	117	PSHD	DLPM	4470006	(2,402.97)	0
4	2019	117	PSHD	IVGE2	4470006	0.00	0
4	2019	117	PSHD	PREE2	4470006	(33.19)	0
4	2019	117	PSHD	TFSF2	4470006	0.00	0
					4470006 Total	432,380.42	8,676,000
4	2019	117		ICET2	4470010	(700.25)	0
4	2019	117		PJM	4470010	2.83	0
4	2019	117		PJM	4470010	(10,072.47)	(202,123)
4	2019	117		PJM	4470010	(75,124.71)	(1,598,981)
4	2019	117		PJM	4470010	(73,645.64)	(1,377,396)
4	2019	117		PJM	4470010	(18,789.76)	(419,670)
4	2019	117		PJM	4470010	(24,885.66)	(560,353)
4	2019	117		PJM	4470010	(214,082.91)	(4,518,759)
4	2019	117		PJM	4470010	(109.41)	0
4	2019	117		PJM	4470010	(56.82)	0
4	2019	117		PJM	4470010	(92,983.95)	(1,941,904)
4	2019	117		PJM	4470010	(0.08)	0
4	2019	117	PEQT	AMRX2	4470010	0.00	0
4	2019	117	PEQT	IVGE2	4470010	0.00	0
4	2019	117	PHRT	APBE2	4470010	(15.09)	0
4	2019	117	PHRT	EVOF2	4470010	0.00	0
4	2019	117	PHRT	ICET2	4470010	(31.40)	0
4	2019	117	PHRT	TFSF2	4470010	(3.32)	0
4	2019	117	PICT	AMRX2	4470010	(1,019.77)	0

4	2019 117	PICT	APBE2	4470010	(197.45)	0
4	2019 117	PICT	EVOF2	4470010	(202.15)	0
4	2019 117	PICT	IVGE2	4470010	0.00	0
4	2019 117	PICT	PREE2	4470010	(658.63)	0
4	2019 117	PICT	PVMF2	4470010	(96.56)	0
4	2019 117	PICT	SPSR2	4470010	(2.72)	0
4	2019 117	PICT	TFSF2	4470010	(62.09)	0
4	2019 117	PICT	TRED2	4470010	(31.01)	0
4	2019 117	PSHD	AMRX2	4470010	(12.07)	0
4	2019 117	PSHD	APBE2	4470010	0.00	0
4	2019 117	PSHD	EVOF2	4470010	(32.44)	0
4	2019 117	PSHD	IVGE2	4470010	0.00	0
4	2019 117	PSHD	PREE2	4470010	(33.19)	0
4	2019 117	PSHD	SPSR2	4470010	0.00	0
4	2019 117	PSHD	TFSF2	4470010	(60.35)	0
				4470010 Total	(512,907.07)	(10,619,186)
4	2019 117	KSHD	RBCC2	4470081	(2,828.29)	0
				4470081 Total	(2,828.29)	0
4	2019 117	PEQT	MSUI2	4470082	(4,028.45)	0
4	2019 117	PEQT	WELF2	4470082	2,472.35	0
4	2019 117	PHRT	RBCC2	4470082	(2,750.73)	0
4	2019 117	PHRT	WELF2	4470082	5,967.81	0
4	2019 117	PICT	MSUI2	4470082	(60,808.16)	0
4	2019 117	PICT	RBCC2	4470082	(15,382.83)	0
4	2019 117	PICT	WELF2	4470082	(105,457.12)	0
4	2019 117	PMCB	WELF2	4470082	35.60	0
4	2019 117	PSHD	MSUI2	4470082	(12,013.64)	0
4	2019 117	PSHD	RBCC2	4470082	11,047.30	0
4	2019 117	PSHD	WELF2	4470082	(74,686.29)	0
				4470082 Total	(255,604.16)	0
4	2019 117		NASIA	4470089	0.00	0
4	2019 117		PJM	4470089	67,430.18	0
				4470089 Total	67,430.18	0
4	2019 117		NASIA	4470098	0.00	0
4	2019 117		PJM	4470098	0.05	0
4	2019 117		PJM	4470098	4,851.01	0
				4470098 Total	4,851.06	0
4	2019 117		NASIA	4470099	0.00	0
4	2019 117		PJM	4470099	92,712.61	0
				4470099 Total	92,712.61	0
4	2019 117		NASIA	4470100	0.00	0
4	2019 117		PJM	4470100	71,205.60	0
				4470100 Total	71,205.60	0
4	2019 117		NASIA	4470103	0.00	0
4	2019 117		PJM	4470103	1,965,126.20	70,817,627
				4470103 Total	1,965,126.20	70,817,627
4	2019 117		PJM	4470107	0.22	0
				4470107 Total	0.22	0
4	2019 117		PJM	4470110	(0.01)	0
				4470110 Total	(0.01)	0

4	2019 117		NASIA	4470112	0.00	0
4	2019 117	PHHS	DLPM	4470112	71,584.37	1,375,000
				4470112 Total	71,584.37	1,375,000
4	2019 117		NASIA	4470115	0.00	0
4	2019 117		PJM	4470115	92.21	0
				4470115 Total	92.21	0
4	2019 117		PJM	4470126	32,175.65	0
				4470126 Total	32,175.65	0
4	2019 117		PJM	4470127	15,300.41	0
				4470127 Total	15,300.41	0
4	2019 117		PJM	4470131	13.20	0
4	2019 117		PJM	4470131	(45,611.45)	(854,428)
4	2019 117		PJM	4470131	(23,617.71)	(520,459)
4	2019 117		PJM	4470131	0.07	0
4	2019 117		PJM	4470131	16.97	0
				4470131 Total	(69,198.92)	(1,374,887)
4	2019 117	PHHS	AMRX2	4470143	(37.54)	0
4	2019 117	PHHS	APBE2	4470143	(55.67)	0
4	2019 117	PHHS	EVOF2	4470143	0.93	0
4	2019 117	PHHS	IVGE2	4470143	(263.92)	0
4	2019 117	PHHS	PREE2	4470143	0.03	0
4	2019 117	PHHS	RBCC2	4470143	72,947.68	0
4	2019 117	PHHS	TFSF2	4470143	0.24	0
4	2019 117	PHHS	WELF2	4470143	(13,411.96)	0
				4470143 Total	59,179.79	0
4	2019 117		OHPA2	4470151	96,192.78	1,941,959
				4470151 Total	96,192.78	1,941,959
4	2019 117	Physical	NASIA	4470175	(602,307.05)	0
4	2019 117	Trading	NASIA	4470175	223,505.86	0
				4470175 Total	(378,801.19)	0
4	2019 117	Physical	NASIA	4470176	602,307.05	0
4	2019 117	Trading	NASIA	4470176	(223,505.86)	0
				4470176 Total	378,801.19	0
4	2019 117		PJM	4470206	11,662.78	0
				4470206 Total	11,662.78	0
4	2019 117		PJM	4470209	(52,216.10)	0
				4470209 Total	(52,216.10)	0
4	2019 117		NASIA	4470214	0.00	0
4	2019 117		PJM	4470214	107.44	0
				4470214 Total	107.44	0
4	2019 117		NASIA	4470215	0.00	0
4	2019 117		PJM	4470215	(76.05)	0
				4470215 Total	(76.05)	0
4	2019 117		NASIA	4470220	0.00	0
4	2019 117		PJM	4470220	231,726.77	0
				4470220 Total	231,726.77	0
4	2019 117		NASIA	4470221	0.00	0
4	2019 117		PJM	4470221	5,828.09	0
				4470221 Total	5,828.09	0
4	2019 117		NASIA	4470222	0.00	0

			4470222 Total	0.00	0
4	2019 117	PJM	5550039	(813.91)	0
			5550039 Total	(813.91)	0
4	2019 110	AMRX2	5570007	(9.90)	(2,357)
4	2019 110	CARB2	5570007	(495.08)	(2,358)
4	2019 110	KNOL2	5570007	(9,769.48)	(349)
4	2019 110	PJME2	5570007	(17.57)	(4,392)
			5570007 Total	(10,292.03)	(9,456)
4	2019 117	PJM	5614000	0.00	0
4	2019 117	PJM	5614000	(10,521.25)	0
			5614000 Total	(10,521.25)	0
4	2019 117	PJM	5614008	(35.08)	0
4	2019 117	PJM	5614008	(21.16)	0
4	2019 117	PJM	5614008	(111.56)	0
4	2019 117	PJM	5614008	(204.23)	0
4	2019 117	PJM	5614008	(42.51)	0
4	2019 117	PJM	5614008	(20.50)	0
4	2019 117	PJM	5614008	(10.80)	0
4	2019 117	PJM	5614008	(48.58)	0
4	2019 117	PJM	5614008	(0.03)	0
4	2019 117	PJM	5614008	(0.01)	0
4	2019 117	PJM	5614008	(652.27)	0
4	2019 117	PJM	5614008	(68.73)	0
4	2019 117	PJM	5614008	(22.85)	0
4	2019 117	PJM	5614008	(5.56)	0
4	2019 117	PJM	5614008	(23.11)	0
4	2019 180	PJM	5614008	0.00	0
			5614008 Total	(1,266.98)	0
4	2019 117	PJM	5618000	0.00	0
4	2019 117	PJM	5618000	(2,818.57)	0
4	2019 117	PJM	5618000	(15.46)	0
			5618000 Total	(2,834.03)	0
4	2019 117	PJM	5757000	0.00	0
4	2019 117	PJM	5757000	(9,595.10)	0
4	2019 117	PJM	5757000	(370.98)	0
			5757000 Total	(9,966.08)	0
			Grand Total	2,229,031.70	70,807,057

Kentucky Power Company
KPSC Case No. 2019-00226
Commission Staff's First Set of Data Requests
Dated August 12, 2019

DATA REQUEST

- KPSC 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 new 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. Please refer to part (a) for a description of the effect of losses on intersystem sales on the FAC calculation.

Witness: Brian K. West

Kentucky Power Company
KPSC Case No. 2019-00226
Commission Staff's First Set of Data Requests
Dated August 12, 2019

DATA REQUEST

KPSC 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_Attachment1.

Witnesses: Douglas J. Rosenberger and David L. Mell

Kentucky Power Company
Fuel Adjustment Case No. 2019-00226
Generating Unit Outages
November 1, 2018 - April 30, 2019

Unit Name	Event Type	Event Start	Event End	Event Description
Big Sandy 1	MO	11/12/2018 1:02	12/1/2018 0:00	Feed Pump Turbine Replacement
Big Sandy 1	PO	12/1/2018 0:00	12/28/2018 11:40	138 Kv Yard Transmission Work and Feed Pump Turbine Replacement
Big Sandy 1	MO	1/16/2019 1:02	1/19/2019 0:00	Boiler Inspection and Repair
Big Sandy 1	MO	1/22/2019 22:02	1/25/2019 15:10	Boiler Inspection and Repair
Big Sandy 1	MO	2/2/2019 13:47	2/15/2019 16:00	HP Crossover South Inlet Flange Leak & Boiler Inspection and Repair
Big Sandy 1	MO	2/21/2019 0:29	2/23/2019 7:51	Boiler Inspection and Repair
Big Sandy 1	MO	3/9/2019 1:36	3/10/2019 8:00	Boiler Inspection and Repair
Big Sandy 1	MO	3/13/2019 12:51	3/16/2019 20:45	Boiler Inspection and Repair
Big Sandy 1	FO	3/26/2019 14:23	3/26/2019 21:32	Low Cooling Tower Circulating Water PH
Big Sandy 1	MO	3/30/2019 0:23	4/1/2019 9:45	Boiler Inspection and Repair
Big Sandy 1	MO	4/27/2019 1:33	4/28/2019 16:00	Boiler Inspection and Repair
Mitchell 1	FO	12/14/2018 22:00	12/18/2018 7:42	Tube Leak
Mitchell 1	MO	12/18/2018 7:42	12/20/2018 16:00	#11 and #12 Bus Duct Fans i/r.
Mitchell 1	FO	12/20/2018 16:00	12/21/2018 3:26	EHC Leak
Mitchell 1	FO	12/21/2018 3:48	12/21/2018 4:29	Unit trip, low main steam alarms, troubleshooting and hoping to hot restart
Mitchell 1	FO	2/17/2019 21:57	2/18/2019 14:31	air heater issue
Mitchell 1	FO	2/22/2019 2:19	2/24/2019 13:24	Loss of #11 ID Fan
Mitchell 1	FO	3/3/2019 19:07	3/4/2019 21:10	Issues with linkage to pitch blades on #11 ID Fan / 00:27 Tube Leak.
Mitchell 1	PO	3/9/2019 0:33	6/11/2019 0:00	Precipitator upgrade. Economizer partition wall replacement. Stack breaching modification. Generator FIP inspection. Turbine valve repairs. Circular letter inspections.
Mitchell 2	FO	10/28/2018 19:15	11/1/2018 18:10	Above Seat Drainline Leak
Mitchell 2	MO	11/1/2018 18:10	11/6/2018 12:00	Replace above seat drain motor operated valves UMO-102, 103, 104.
Mitchell 2	MO	11/6/2018 12:00	11/9/2018 17:55	ID Fan hub inspections and repairs.
Mitchell 2	MO	11/17/2018 0:00	11/17/2018 15:22	Condenser Outlet pipe flange leak i/r
Mitchell 2	FO	11/26/2018 20:47	11/28/2018 8:00	#1 Main Steam Control Valve Stem Leak Off

Mitchell 2	MO	11/28/2018 8:00	11/28/2018 17:25	BMO-3 i/r
Mitchell 2	MO	12/22/2018 0:52	12/28/2018 20:00	Repair EHC leak, Boiler i/r.
Mitchell 2	MO	1/4/2019 7:00	1/5/2019 9:00	MO to make repairs on boiler feedpump turbine stop valve
Mitchell 2	FO	1/31/2019 12:06	2/4/2019 6:08	Tube Leak
Mitchell 2	MO	2/4/2019 6:08	2/13/2019 23:20	Repair LVDT on Left 1st RH Stop Valve failed. LVDT on BFPT Stop Valve, Boiler i/r, Precip i/r, Casing Leak repair on ID Fans. Coal air pipe hanger repairs..
Mitchell 2	MO	4/13/2019 1:03	4/27/2019 14:22	Boiler i/r, LP Heater String Valves i/r, replace 3 FW Hand shut-off Valves, i/r and clean the Main Condenser, i/r Precips, clean and inspect coolers.
Mitchell 2	FO	4/28/2019 10:45	4/28/2019 14:55	Problems with aux boiler drum level control.

Event Type *

FO Forced Outage

MO Maintenance Outage

PO Planned Outage

Note: i/r = Inspection and Repair

Note: The Big Sandy Plant utilizes PJM - Reserve Shutdowns, to schedule a Maintenance Outage (MO) to perform boiler inspections and repairs.

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DATA REQUEST

KPSC 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_Attachment1 for the monthly capacity factor of each of the Company's generating units.

Witnesses: Douglas J. Rosenberger and David L. Mell

Kentucky Power Company Fuel Adjustment Case No. 2019-00226 Generating Unit Net Capacity Factor (%) November 1, 2018 - April 30, 2019						
	Nov. 2018	Dec. 2018	Jan. 2019	Feb. 2019	March 2019	April 2019
Big Sandy 1	16.88	0.00	24.77	23.85	42.02	57.18
Mitchell 1	51.09	40.93	73.08	61.63	16.36	0.00
Mitchell 2	1.74	37.13	46.04	30.01	67.98	31.53

Kentucky Power Company
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DATA REQUEST

- KPSC 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.

Witnesses: Douglas J. Rosenberger and David L. Mell

Kentucky Power Company
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DATA REQUEST

KPSC 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.

Witnesses: Clinton M. Stutler and Amy E. Jeffries

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DATA REQUEST

KPSC 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

The Company is not aware of any violations of 807 KAR 5:056 during the review period. Any known deviations from the regulation arising prior to the review period previously were addressed by the Commission.

Witness: Brian K. West

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DATA REQUEST

KPSC 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

All contracts have been filed with the Commission.

Witness: Brian K. West

VERIFICATION

The undersigned, Amy E. Jeffries, being duly sworn, deposes and says she is the Coal Procurement Manager for American Electric Power Service Corporation that she 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 her information, knowledge, and belief.


Amy E. Jeffries

State of Ohio)
) Case No. 2019-00226
County of Franklin)

Subscribed and sworn before me, a Notary Public, by Amy E. Jeffries this
 20 day of August, 2019.


Notary Public

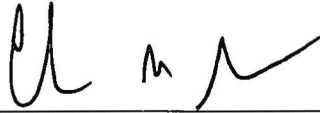
My Commission Expires 7-1-2021



Gina L. Beyer
Notary Public, State of Ohio
My Commission Expires 07-01-2021

VERIFICATION

The undersigned, Clinton M. Stutler, being duly sworn, deposes and says he is the Natural Gas & Fuel Oil Manager for American Electric Power Service Corporation, 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. 2019-00226

Subscribed and sworn before me, a Notary Public, by Clinton M. Stutler this
20 day of August, 2019.



Notary Public

My Commission Expires 7-1-2021



Gina L. Beyer
Notary Public, State of Ohio
My Commission Expires 07-01-2021

