COMMONWEALTH OF KENTUCKY

BEFORE THE

PUBLIC SERVICE COMMISSION OF KENTUCKY

RECEIVED

MAR 2 1 2014

IN THE MATTER OF

PUBLIC SERVICE COMMISSION

INTEGRATED RESOURCE PLANNING REPORT
OF KENTUCKY POWER COMPANY TO THE
KENTUCKY PUBIC SERVICE COMMISSION

) Case No. 2013-00475

KENTUCKY POWER COMPANY RESPONSES TO COMMISSION STAFF'S SECOND SET OF DATA REQUESTS

March 21, 2014

VERIFICATION

The undersigned, Will K. Castle, being duly sworn, deposes and says he is the Director Resource and DSM Planning for American Electric Power, that he has personal knowledge of the matters set forth in the forgoing responses for which he is the identified witness and that the information contained therein is true and correct to the best of his information, knowledge and belief

	While K Castle
	Will K. Castle
STATE OF OHIO)) Case No. 2013-00475
COUNTY OF FRANKLIN) Case No. 2013-00473

Subscribed and sworn to before me, a Notary Public in and before said County and State by Will K. Castle, this the 13 day of March 2014.

Kristina L. Woods Notary Public, State of Ohio My Commission Expires 03-07-2016

My Commission Expires: 3-7-2016

VERIFICATION

The undersigned, John F. Torpey, being duly sworn, deposes and says he is the Director Integrated Resource Planning for American Electric Power, that he has personal knowledge of the matters set forth in the forgoing responses for which he is the identified witness and that the information contained therein is true and correct to the best of his information, knowledge and belief

John F. Torpey

STATE OF OHIO

COUNTY OF FRANKLIN

Case No. 2013-00475

Subscribed and sworn to before me, a Notary Public in and before said County and State, by John F. Torpey, this the 14th day of March 2014.

Notary Public

JOSEPHINE CONER Notary Public, State of Ohio My Commission Expires 09-20-16

My Commission Expires: <u>09-20-2016</u>

VERIFICATION

The undersigned, Ranie K. Wohnhas, being duly sworn, deposes and says he is the Managing Director Regulatory and Finance for Kentucky Power, that he has personal knowledge of the matters set forth in the forgoing responses for which he is the identified witness and that the information contained therein is true and correct to the best of his information, knowledge, and belief

	Kanie K. Wahrl
	Ranie K. Wohnhas
COMMONWEALTH OF KENTUCKY) Case No. 2013-00475
COUNTY OF FRANKLIN)

Subscribed and sworn to before me, a Notary Public in and before said County and State, by Ranie K. Wohnhas, this the 18th day of March 2014.

Notary Pyblic

My Commission Expires: Junuary 23, 30/1

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 1 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to page ES-2 of the Executive Summary and page 98, Section 3.5.2 of Kentucky Power's 2013 Integrated Resource Plan ("IRP").

- a. Provide a copy of the study which leads to the assumption that utility-scale solar power will begin to be economical.
- b. Explain whether the underlying factors that drive the viability utility-scale solar power are technology improvements in solar panels, generation price differentials, installation costs, or something different.
- c. Explain where the solar installation will be located.

RESPONSE

- a. The Company is contractually prohibited from reproducing the Navigant study. The Company will produce the documents for review at its Frankfort, Kentucky offices, located at 101A Enterprise Drive, at a mutually agreed time. The Navigant study forecasts declining solar costs through 2018.
- b. The factors driving the viability of solar resources are technology improvements, lower installation costs and increasing capacity and energy costs. See Figure 12 on page 131 of the IRP Report.
- c. Kentucky Power has not identified any sites for future solar installations.

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KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 2 Page 1 of 2

Kentucky Power Company

REQUEST

Refer to page ES-2 of the Executive Summary regarding a carbon tax of \$15-\$20 per metric ton of CO2, page ES-3, third paragraph stating "... and reflecting emerging preference for, and the viability of customer self-generation" and page 13, Section 1.6 of Kentucky Power's 2013 IRP.

- a. Explain the effects on electricity demand and energy prices for each customer class when the tax is applied.
- b. Explain how the tax revenue is used by Kentucky Power in its modeling, including, but not limited to, whether it is used to fund specific Energy Efficiency ("EE") or Demand-Side Management ("DSM") programs that could have a longer-lasting impact on demand.
- c. Explain whether the sensitivity of large commercial and industrial customer classes to energy prices is such that customers may leave the service area or fail to invest in additional expansion projects or new facilities if a carbon tax were to be imposed.
- d. If known, provide the tipping point at which the carbon tax becomes too high and elicits a significant reduction in electricity demand, including the secondary loss effects from business activity and employment losses.
- e. Explain whether the sensitivity of large commercial and industrial customer classes is such that they would undertake to self-generate all or a portion of their power requirements, i.e., combined heat and power ("CHP").

RESPONSE

- a. No specific analysis by customer class has been performed. In general, electricity demand tends to decrease as prices increase.
- b. The carbon tax is assumed to be a government-imposed penalty applied to the variable cost of fossil fuel based on the amount of CO2 emitted. The IRP modeling does not assume any of this penalty will be used to offset costs of other resources.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 2 Page 2 of 2

- c. Kentucky Power has not performed any analysis to indicate whether large industrial or commercial customers would leave the service area or fail to invest in additional expansion projects. Such decisions would be made by those customers on a case by case basis taking into account a wide variety of factors, including the availability of skilled labor, and transportation to markets. It is important to realize also that any carbon tax proxy, if ultimately implemented, would likely affect electric generation throughout the entire United States.
- d. The Company has not calculated a tipping point.
- e. Any decision by a customer to self-generate would be made by that customer on a case by case basis, taking into account such variables as the anticipated price of power that would be avoided, the customer's load factor, availability of fuel sources, ability to finance such a project, and the impact those combined factors would have on its overall profitability.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 3 Page 1 of 1

KENTUCKY POWER COMPANY

REQUEST

Refer to page ES-5 of the Executive Summary of Kentucky Power's 2013 IRP.

- a. Since it self-supplies its power in PJM Interconnection, L.L.C. ("PJM"), explain how and the extent to which PJM energy market volatility affects Kentucky Power.
- b. Explain how the addition of non-traditional energy resources, especially higher-cost biomass and utility-scale solar, is a suitable cost-effective hedge against that volatility.

RESPONSE

- a. Energy market volatility affects a vertically-integrated utility like Kentucky Power during those periods it lacks available resources to meet its internal load. These include periods when capacity is not in service due to maintenance or forced outages and demand exceeds the remaining supply, or when Kentucky Power possesses adequate supply but market prices are low so off system sales revenues are reduced.
- b. Non-traditional resources are typically not subject to the same price volatility as conventionally fueled units due to the nature of their fuel supply or power purchase agreements. As such, their relatively fixed costs have a stabilizing impact on overall system costs, acting as a hedge against volatility.

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KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 4 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to footnotes (F) and (G) in Table ES-1 at page ES-7 of the Executive Summary. Explain why PJM and Kentucky Power recognize only 13 percent of wind nameplate MW rating for Installed Capacity ("ICAP") purposes, but recognize solar nameplate MW rating at 38 percent.

RESPONSE

The differing ratings are assigned by PJM to a resource based upon its actual performance at the time of the PJM peak, if known. Where operating data is unavailable for a particular unit, PJM assigns the rating based on PJM's experience with that type of resource at PJM's peak. Refer to PJM Manual 21: Rules and Procedures for Determination of Generating Capability, Appendix B: Calculating Capacity Values for Intermittent Capacity Resources, Section B.3 paragraph "j". on page 19 (link: http://www.pjm.com/~/media/documents/manuals/m21.ashx)

Kentucky Power must use the PJM values to receive credit for those resources in meeting its reserve obligations.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 5 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to page 7, Section 1.4, of Kentucky Power's 2013 IRP. A key assumption supporting the forecast is the slow decline in service-area population.

- a. Provide the percentage of Kentucky Power's overall load (capacity and energy) that is contributed by coal mining and related industries.
- b. Explain how the recent decline in coal mining and related industries and the loss of business activity and employment generally in eastern Kentucky have affected Kentucky Power, if at all.

RESPONSE

- a. In 2013, energy sales to coal mines constituted 10.2% of the Company's retail sales. Energy sales to coal mine related industries are not readily available. Coal mining activities accounted for 7.7% of the Company's 2013 peak internal demand.
- b. The direct impact on Kentucky Power is reduced energy sales and revenues associated with the coal mining industry. The reduced mining activity, if not offset by other growth, may affect regional income, which has an impact on residential and commercial activity.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 6 Page 1 of 2

Kentucky Power Company

REQUEST

Refer to page 9, Section 1.4, of Kentucky Power's 2013 IRP.

- a. Explain why Kentucky Power's interruptible load is assumed to be not available for interruption at the time of seasonal peaks.
- b. Explain when the interruptible load is available.
- c. Identify and describe the advantages to Kentucky Power of having an interruptible tariff if the interruptible load is not available during times when power prices are presumably very high.
- d. Explain whether Kentucky Power has had to go to the market to make power purchases at a time when the interruptible load was not available.

RESPONSE

- a. Kentucky Power has one interruptible customer under a Commission-approved Tariff C.S.-I.R.P. contract. That contract also includes time-of-day provisions that generally led to that customer only operating its interruptible load during off-peak periods. As such, the customer's interruptible load was not contributing to the Company's seasonal peaks, and hence could not be interrupted.
- b. Interruptible load is available when the customer is operating above its firm capacity load level.
- c. By "not available" the Company means that the load has been interrupted by the customer for reasons other than Kentucky Power directing the customer to interrupt the load. If the interruptible load is not operating at a time of need, then by definition it is already reduced and the desired goal has already been achieved. Further, to the extent the load has not been interrupted by the customer at the time of the peak, the interruptible tariff allows the Company to require that the load be interrupted thereby providing the sought-after benefits.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 6 Page 2 of 2

d. As a member of PJM, Kentucky Power is continuously bidding all of its generation into the PJM market and meeting all of its load through purchases from the PJM market. As a result, the Company lacks the information to respond further to this data request.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 7 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to page 13, Section 1.6, Table 5, of Kentucky Power's 2013 IRP.

- a. Explain the cause of the drop in peak demand in 2017.
- b. Examining peak demand beginning in 2022, it does not appear that the carbon tax of \$15-\$20 per metric ton of CO₂ has any effect. Explain whether the tax has an appreciable effect on demand levels, peak or otherwise.
- c. What is the price elasticity of demand used in modeling demand levels, peak or otherwise?
- d. Explain whether Kentucky Power modeled the effects of a carbon limit implemented in a non-tax form, such as a CO₂ rate or mass-emission limit, and, if so, explain how that affected peak demand.

RESPONSE

- a. The drop in 2017 reflects the transition from the PJM-based forecast (which ends in May 2017) for UCAP load to the Company-based forecast for UCAP load.
- b. The Company does not explicitly forecast the impacts of a carbon tax on the internal peak demand forecast, which is used, derive the UCAP peak demands that are referred to on Table 5
- c. There is no elasticity of demand for peaks in the Company's analysis. The Company does not have a single price elasticity for its energy sales, rather each sector will have an elasticity or elasticities.
- d. No. A carbon limit was not explicitly modeled for the internal peak demand forecast.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 8 Page 1 of 1

KENTUCKY POWER COMPANY

REQUEST

Refer to pages 16 and 19, Sections 1.7 and 1.9.2, of Kentucky Power's 2013 IRP.

- a. Explain whether Kentucky Power has held discussions of EE programs with its industrial customers.
- b. Explain whether CHP could be considered an EE program.
- c. Explain whether there is any reason why Kentucky Power could not spend a portion of its \$6 million annual budget by 2016, in conjunction with its industrial customers' funds, to implement EE programs that may otherwise not be considered by industrial customers individually.

RESPONSE

- a. Since the time industrial customers opted out of participating in the Company sponsored DSM/EE initiative and the Company eliminated all industrial programs, the Company has not held discussions of EE programs with its industrial customers.
- b. CHP is better considered an energy resource rather than an EE/DSM program.
- c. KRS 278.285(3) requires that the portion of the \$6 million that would be used to implement EE projects for industrial customers must be funded by a surcharge levied on all industrial customers. Kentucky Power's current DSM tariff is not applicable to industrial customers and thus no funds would be available under the current tariff for such industrial EE programs. Assuming that the Company's tariff is amended to levy an appropriate surcharge on industrial customers, and subject to review and approval by the commission of the specific "EE program(s) that may otherwise not be considered by industrial customers individually," the Company believes that the industrial-funded portion of the \$6 million could be used to fund an EE program applicable to industrials as a class. In this regard, the Company notes that a CHP in most cases would not constitute an EE program available to all industrial customers because it would be limited to a single industrial customer.

WITNESS: Ranie K Wohnhas

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KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 9 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to pages 20-21, Section 1.9.2, of Kentucky Power's 2013 IRP. The Supreme Court is considering questions regarding the United States Environmental Protection Agency's ("EPA") authority to regulate Greenhouse Gases ("GHG") currently. Decisions in those cases are expected by the summer of 2014.

- a. Explain what options are available to Kentucky Power if GHG regulations go into effect and existing sources are limited to 1,100 pounds of CO2 per MWh.
- b. If these options were to be put into effect, and if Kentucky Power has modeled the question, provide the cost impact on Kentucky Power's various customer classes.

RESPONSE

- a. While there is no indication that existing sources would be limited to 1,100 pounds of CO2/MWh, if such a rule were to be implemented, it would likely apply to all coal fired plants in the country. The options available to these plants would be to shut down/retire, to install carbon capture equipment (which has not yet been demonstrated on a commercial scale), or to convert to natural gas fired operation.
- b. Kentucky Power has not modeled the options to address a hypothetical 1,100 pounds of CO2/MWh GHG restriction.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 10 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to pages 14-15, Section 1.6, Tables 5 and 6, and page 72, Section 2.13, Exhibit 2-18, of Kentucky Power's 2013 IRP. Explain the discrepancy in summer peak forecasts in Table 5 and Exhibit 2-18.

RESPONSE

The forecasts on Table 5 reflect Unforced Capacity (UCAP) peaks for PJM capacity planning purposes. The peaks on Exhibit 2-18 reflect the internal peak demand.



KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 11 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to page 93, Section 3.4.1.5, of Kentucky Power's 2013 IRP and the response to Item 24 of the Commission Staff's Initial Request for Information ("Staff's First Request"). Explain how the Distributed Generation ("DG") technologies were evaluated, i.e., were the analyses based upon and inclusive of the cost to induce customers to install and use the technology or based upon the simple installation and operation and maintenance costs?

RESPONSE

DG technologies were evaluated on their cost to the utility (net metering credits). Customer-incurred costs were not considered.

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KPSC Case No. 2013-00475 Commission's Staff Second Set of Data Requests Dated March 7, 2014 Item No. 12 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to page 97, Section 3.5.2, of Kentucky Power's 2013 IRP. Kentucky Power states, "DG resources were evaluated using a solar PV resource, as this is likely the primary distributed resource." Explain how Photo Voltaic compares to CHP as a DG resource in terms of cost, capacity and energy.

RESPONSE

CHP costs depend on the type of facility constructed. Steam turbine CHP plant costs typically run \$2,000-3,000/kW. Gas turbine CHP costs start at \$1,000/kW for a simple installation and can quintuple for more complex installations. In contrast, solar PV systems are expected to cost \$1,350/kW (including Investment Tax Credit) by 2020, while utility wind costs are expected to be \$2,000/kW. Capacity credit, or the amount of PJM capacity offset is dependent on the operating characteristics of the CHP plant. Attachment 1 to KPSC 2-12 shows a typical range of installed costs. The cost to the utility (and ratepayers) of a CHP plant is the full retail rate (less variable O&M) for the portion of energy consumed that is self-generated and the co-gen rate for energy sold to the grid.

KPSC Case No. 2013-00475 Commission Staff Second Set March 7, 2014 Item 12 Attachment 1 page 1 of 1

	Installed Cost \$/kW	Capacity Factor	PJM Capacity
Utility Wind	2000	30-40%	13%
Solar PV	1350	15-18%	38%
СНР	1000-5000	70-80%	various

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KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 13 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to page 98, Section 3.5.5, of Kentucky Power's 2013 IRP. Kentucky Power states, in part, "Resources were constructed with the following cost profiles (Stated in "cost first-year savings")...." Explain whether "first-year savings" means the first year of the DSM program implementation, the first year of resource installation, or something different.

RESPONSE

Those costs are stated for the first year of resource installation.

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KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 14 Page 1 of 3

Kentucky Power Company

REQUEST

Refer to page 125, Section 4.3.4.2, pages 136-137, Section 4.3.4.5, of Kentucky Power's 2013 IRP and the response to Item 40 of Staff's First Request. Kentucky Power's discussion takes as a premise that CHP would be aggressively pursued only when there would be a need for additional capacity, and that its avoided costs have been lower than the cost of energy from CHP.

- a. Explain why this line of reasoning (business model) is appropriate for CHP, when utility-scale wind and solar are not priced on a similar basis.
- b. Explain whether the American Electric Power operating companies ("AEP companies") take advantage of the 3,400 MW of potential CHP in their service territories, and if so, to what degree.
- c. If the AEP companies take advantage of CHP in their service territories, provide the locations, the industry type (refining, chemical, etc.) and whether the state is a traditional utility regulation or a deregulated state.
- d. Explain why a business model that approaches CHP as a part of a utility's investment in supply-side resources on par with other more traditional options is not valid.
- e. From an industrial customer point of view, the CHP business case analysis will be different. In a traditional utility-regulation state, investing in CHP will be undertaken predominately to avoid large current and anticipated utility energy bills. Considering the impact of the loss of its two largest industrial loads, Big Rivers Electric Corporation has had to take drastic actions and is in the process of implementing large rate increases. Explain whether Kentucky Power has calculated the impact to itself and its remaining ratepayers of the loss of a large industrial load to CHP. If not, explain why it would not be prudent to model this type of loss scenario as part of its risk analysis.
- f. Provide an analysis of the impact to Kentucky Power and resulting ratepayer impact if a large industrial customer in its service territory were to decide to generate its own power, resulting in a 10 percent loss of load.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 14 Page 2 of 3

- g. If wind is only evaluated at a 13 percent useful-capacity factor andutility-scale solar has approximately a 38 percent capacity factor, and both are either being either evaluated or anticipated by Kentucky Power, explain the business-case rationale for not pursuing CHP.
- h. Explain whether there is any reason why Kentucky Power could not be a partner/investor in a CHP project.

RESPONSE

- a. Wind and solar are added because they are projected to become economic during the study period. That is, the cost to produce energy and capacity are less than the PJM market prices, resulting in reduced revenue requirements. CHP is compensated at avoided cost which is the PJM market and is open to anyone willing to produce power at that rate. To the extent that a CHP facility can produce power at a rate that is less than the market rate, that may influence the decision to build. CHP, like solar and wind, are being offered, in effect, at the market price.
- b. AEP has 3,402 MW of CHP capacity in it's service territories. AEP offers the "co-gen" or "avoided cost" rate for purchase of excess energy from the CHP facility.
- c. See Attachment 1.
- d. CHP is a valid resource option on par with supply-side and other demand-side resources. There is a mechanism to compensate CHP providers at market prices for their excess production. Internal production effectively offsets electricity purchases at the full retail rate. This is different than a model that builds generation that is producing energy at below-market rates.
- e. The Company has not made the indicated calculation. Kentucky Power recognizes the importance of including at the appropriate time such a loss scenario in its planning. Nevertheless, because of differences between the distribution of Kentucky Power and BREC's load, and because CHP is customer specific, it would be more useful to model this type of loss scenario at the time a customer is considering CHP.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 14 Page 3 of 3

- f. The extreme example of a 10% load loss as a result of one customer generating its own power would result in an approximate annual jurisdictional revenue loss of \$5 million. This loss could be offset to some extent by additional off-system sales of the load loss; and on a longer term perspective, it provides room for economic development without the need for additional generation. Using 2013 total jurisdictional revenue of \$511 million, the \$5 million revenue loss would be 1% of the Company's total jurisdictional revenue. Spreading this revenue loss equally across all of KPC's customers would result in an annual increase of \$29 dollars or \$2.42 per month.
- g. CHP is "pursued" through the tariff mechanism to compensate CHP providers at market rates, including energy and capacity. Wind and solar could be pursued to the extent that they are providing energy and capacity at less than market rates resulting in reduced revenue requirements. The combination of useful capacity and the timing (seasonally and peak/off-peak hours) determine the value of the resource. To the extent those market prices can be beat due to declining costs, as is the case in solar and wind, those resources become preferable.
- h. Kentucky Power could partner with a potential CHP provider. The considerations would be the extent that such an investment would increase revenue requirements for rate-payers.

WITNESS: William K Castle/Ranie K Wohnhas

KPSC Case No. 2013-00475 Commission Staff's Second Set Dated March 7, 2014 Item No. 14 Attachment 1

Page 1 of 1

AEP_SERV Y

Sum of Capaci	ty kW	Fuel Type]
STATE	APPLICATION	BIDMASS	COAL	NG	DIL	OTR	WAST	WDDD	Grand Total	Utility Regulation
AR	Hospitals/Healthcare			8,500					8,500	
l	Pulp and Paper	1					156,50			Regulated
AR Total		J		8,500			156,50	0	165,000	Regulated
IN	Amusement/Recreation	ì		120						Regulated
	Colleges/Univ.	l .	23,100	30						Regulated
	Food Processing	t	2,000						2,000	Regulated
ľ	Hospitals/Healthcare	i		745					745	Regulated
	Misc, Manufacturing			210					210	Regulated
	Primary Metals	j		120						Regulated
IN Total		ì	25,100	1,225					26,325	Regulated
LA	Military/National Security	1		300					300	Regulated
	Pulp and Paper	Ī		94,800					94,800	Regulated
LA Total				95,100		·· · · · · · · · · · · · · · · · · · ·			95,100	
МІ	Agriculture	80							80	Regulated
	Colleges/Univ.			10,583					10.583	Regulated
	Pulp and Paper			13,010						Regulated
MI Total		80		23,593						Regulated
DH	Agriculture	1,150		20,000						Deregulated
1	Amusement/Recreation	',''		150					150	Deregulated
	Colleges/Univ.	1	375	100						
	Furniture	ŀ	0.0					1,000		Deregulated
	General Gov't.	375						1,000		Deregulated
	Primary Metals	""		4,550			32,00	0		Deregulated
1	Private Household			115			32,00	•		Deregulated
	Pulp and Paper		81,000	22,450						Deregulated
	Refining		01,000	22,450			53,00	0		
	Rubber/Plastics			1,900			33,00	o .		Deregulated
1	Wastewater Treatment			1,900						
DH Total	wastewater treatment	90 1,615	81,375	00.405		·····	05.00	0 1.000		Deregulated Deregulated
DK Total	District Constitution	1,615	61,3/5	29,165		•	85,00	0 1,000		
DK	District Energy			17,000				_		
	Pulp and Paper	İ					55,00			
5/2 to 1	Refining						16,80			Regulated
DK Total	- 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2			17,000			71,80	<u> </u>		Regulated
TN	Chemicals		160,300							Regulated
	Pulp and Paper		22,000							Regulated
TN Total		ļ	182,300							Regulated
TX	Chemicals	1		1,747,400						Deregulated
	Food Processing	23,500								Deregulated
	Hotels	1			240					Deregulated
	Pulp and Paper	1					65,00			Deregulated
	Refining			670,800		35,000	75,30			
	Wood Products	1						5,540	5,540	Deregulated
TX Total		23,500		2,418,200	240	35,000	140,30	0 5,540	2,622,780	Deregulated
Grand Total		25,195	288,775	2,592,783	240	35,000	453,60	0 8,540	3,402,133]

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 15 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to projected average heat rates (Btu/kWh) for Big Sandy Unit 1 after conversion listed in Exhibit 4-6, page 3 of 3, at page 267 in Volume D of Kentucky Power's 2013 IRP. Also refer to Kentucky Power's response to Item 10.c. of Commission Staff's Initial Information Request in Case No. 2013-00430 (See footnote below) concerning the calculated full heat rate (summer) for Big Sandy Unit 1 after conversion. Explain any differences in the heat rate(s) in the two referenced documents.

2013-00430, The Application of Kentucky Power Company for (1) A Certificated of Public Convenience and Necessity authorizing Kentucky Power to Convert the Existing Big Sandy Unit 1 to be Exclusively Fueled by Natural Gas (2) for Declaratory Rulings; and (3) For All Other Required Approvals and Relief, filed Dec. 6, 2013.

RESPONSE

The average heat rates produced in the 2013 IRP were based on the *Plexos/LT* Plan dispatch algorithms which differ from those used by Strategist to produce the average heat rates for the 2013-00430 case. In addition, multiple factors combined to result in a higher average heat rate as shown in the 2013 IRP versus the 2013-00430 case. The 2013 IRP inadvertently made use of an i/o curve that had an incorrect incremental coefficient, resulting in a higher average heat rate. In addition, the average heat rates produced shown in the 2013 IRP were based on a more recent projection of gas prices that were about 9% higher yielding a lower utilization of the Big Sandy 1 gas unit. This, in turn, resulted in a higher average heat rate. Nevertheless, the design heat rate for Big Sandy 1 has not changed from the original estimate.

WITNESS: John F Torpey

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 16 Page 1 of 2

Kentucky Power Company

REQUEST

Refer to the response to Item 3 of Commission Staffs First Request.

- a. When was Kentucky Power's Automated Meter Reading ("AMR") system installed?
- b. Describe Kentucky Power's long-term plans for continued operation of its AMR system.
- c. Explain whether Kentucky Power intends to deploy smart meter technology in the future.
- d. Provide the number of disconnections and reconnections in 2013 due to non-payment of the customer bill.

RESPONSE

- a. Kentucky Power installed an Automated Meter Reading (AMR) system beginning in 2005. Most residential meters were replaced by 2007 and most commercial and industrial meters were replaced by 2010.
- b. Kentucky Power has no plans at this time to make any significant changes to its continued operation of its AMR system.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 16 Page 2 of 2

- c. Kentucky Power does not have any near-term plans to deploy AMI technology. Due to Kentucky Power's relatively recent investment in the AMR system, many of the operational benefits that would be realized through an AMI deployment have already been realized through the AMR system (e.g., remote meter reading). In addition, even though Kentucky Power's electricity rates remain below the national average, its customers are experiencing rate increases to reimburse the Company for increased costs of fuel, emission reduction requirements, increased costs to ensure electricity reliability investments, etc. These increased costs, along with a continuing economic downturn, have placed pressures on Kentucky Power to limit further incremental cost increases, including those related to smart meter deployment. Due to these factors, and being cognizant of associated rate impacts on customers, Kentucky Power is prudently pursuing only select smart grid technology deployment opportunities (such as SCADA, Distribution Automation, Volt VAR Optimization, etc.) at the current time. Kentucky Power will continue to consider the opportunities for smart meter deployment in the future.
- d. In 2013, Kentucky Power disconnected 10,783 customers due to non-payment of bills and reconnected 7,194 customers after past due balances had been paid.

WITNESS: Ranie K Wohnhas

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 17 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to the response to Item 11 of Staff's First Request. Explain what is meant by "recent trends in estimated losses."

RESPONSE

Recent trends in "estimated losses" means those loss percentages that have occurred since 2009 and which were used in estimating Company losses.

WITNESS: William K Castle

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KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 18 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to the response to Item 16 of Staff's First Request and Table 13 on page 108 of Kentucky Power's 2013 IRP.

- a. Provide the amount and percentage of Kentucky Power's projected annual investment in DSM relative to annual retail electric sales revenue for the years 2014 through 2028.
- b. Provide the amount and percentage of Kentucky Power's projected annual DSM/EE savings relative to total retail electric sales (in kWh) for the years 2014 through 2028.

RESPONSE

- a. Please see Attachment 1 to this response.
- b. Please see Attachment 2 to this response.

WITNESS: William K Castle

KPSC Case No. 2013-00475
Commission Staff's Second Set of Data Requests
Dated March 7, 2014
Item 18
Attachment 1
Page 1 of 1

All values in \$000 unless noted

	Distributed							
	Solar (Net		Energy		Total	R&C	% of Total	% of R&C
Year	Metering)	VVO	Efficiency	Total	Revenues	Revenues	Revenues	Revenues
2014	-	618	4,124	4,742	523,144	347,531	0.9%	1.4%
2015	-	618	5,158	5,776	530,384	350,424	1.1%	1.6%
2016	139	618	5,776	6,533	536,919	353,601	1.2%	1.8%
2017	189	618	5,871	6,678	551,754	361,137	1.2%	1.8%
2018	241	618	5,988	6,847	556,806	363,658	1.2%	1.9%
2019	295	618	6,108	7,021	564,479	367,637	1.2%	1.9%
2020	403	618	6,230	7,251	574,756	372,926	1.3%	1.9%
2021	511	618	6,355	7,484	585,417	378,726	1.3%	2.0%
2022	678	1,086	6,482	8,246	597,488	384,361	1.4%	2.1%
2023	851	1,086	6,611	8,548	601,217	386,284	1.4%	2.2%
2024	1,089	1,086	6,744	8,919	613,242	394,010	1.5%	2.3%
2025	1,383	1,086	6,879	9,348	625,506	401,890	1.5%	2.3%
2026	1,749	1,086	7,016	9,851	638,017	409,928	1.5%	2.4%
2027	2,244	1,086	7,156	10,486	650,777	418,127	1.6%	2.5%
2028	2,889	1,086	7,300	11,275	663,792	426,489	1.7%	2.6%

KPSC Case No. 2013-00475 Commission Staff Second Set March 7, 2014 Item 18 Attachment 2 page 1 of 1

All values in GWh unless noted

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			!	Distributed			Retail	% of	
	Expanded	Approve		Solar (Net		Retail	Sales	Retail	
	EE	d EE	VVO	Metering)	Total	Sales	R&C only	Sales	% of R&C
2014	5	46	. 24	-	76	6,495	3,656	1.2%	2.1%
2015	14	61	24	<u>-</u>	100	6,503	3,654	1.5%	2.7%
2016	24	73	24	2	123	6,530	3,667	1.9%	3.3%
2017	34	81	24	2	142	6,547	3,670	2.2%	3.9%
2018	44	87	24	3	158	6,553	3,672	2.4%	4.3%
2019	54	92	24	3	173	6,563	3,679	2.6%	4.7%
2020	64	94	24	4	187	6,574	3,681	2.8%	5.1%
2021	74	96	47	5	222	6,593	3,689	3.4%	6.0%
2022	84	97	47	7	234	6,615	3,694	3.5%	6.3%
2023	93	97	47	8	245	6,633	3,701	3.7%	6.6%
2024	100	97	47	10	254	6,649	3,711	3.8%	6.8%
2025	105	97	47	13	261	6,666	3,723	3.9%	7.0%
2026	109	97	47	16	268	6,686	3,734	4.0%	7.2%
2027	113	97	47	20	276	6,705	3,745	4.1%	7.4%
2028	116	97	47	25	284	6,728	3,760	4.2%	7.6%

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KPSC Case No. 2013-00475 Commission's Staff Second Set of Data Requests Dated March 7, 2014 Item No. 19 Page 1 of 1

Kentucky Power Company

REQUEST

Refer to the response to Item 29.c. of Staffs First Request. Kentucky Power states that as a Fixed Resource Requirement ("FRR") company in PJM, it has been held to a lower reserve margin requirement, not higher. As an FRR company, Kentucky Power is obligated to meet its winter peak, plus a reserve margin. As a Reliability Pricing Model ("RPM") company in PJM, it would be required to have enough capacity for a summer peak, plus a reserve margin. If it were to choose to participate in PJM as a RPM member, what does Kentucky Power estimate its PJM summer RPM capacity plus reserve margin would be, stated in MWs?

RESPONSE

As an FRR company, Kentucky Power is obligated to meet its summer peak demand, coincident with the PJM summer peak (not the winter peak as stated in the question). For the 2017/2018 planning year, based on the PJM forecast that was made available to the Company on February 1, 2014, Kentucky Power, if participating in PJM as a RPM entity, estimates that its summer capacity plus reserve margin obligation would be 1,295 MW.

WITNESS: John F Torpey



KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 20 Page 1 of 1

Kentucky Power Company

REQUEST

Kentucky Power's response to Item 30.a. of Staff's First Request provides the Commission with PJM's Installed Reserve Margin of 15.6 percent. Kentucky Power states that its peak that is coincident with the PJM peak is the relevant data point when considering its obligation. For the previous five years, provide the calendar dates of the relative data point used when considering Kentucky Power's obligation.

RESPONSE

Loads at the time of PJM's RTO five peak days are used in development of the Peak Load Contribution (PLC), which is used to derive the load obligation for load serving entities within each zone of PJM. Staff 2-20 Attachment 1 provides the peak days and peak hours (in Eastern Prevailing Time) for the five peak days of PJM for 2008 through 2012.

WITNESS: John F Torpey

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KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 21 Page 1 of 1

Kentucky Power Company

REQUEST

In response to Item 32 of Staff's First Request, Kentucky Power states that no FRR/RPM selection discussions occurred in the early time frame of the AEP east pool breakup. Provide records of any discussions, occurring after the early time period, concerning the future impacts the AEP east pool breakup would have on Kentucky Power's participation in the PJM market, specifically the choice to remain as a FRR participant or move to become a RPM participant.

RESPONSE

Please refer to Attachments 1 and 2 of this response for the documentation supporting Kentucky Power's decision in early 2012 to continue to elect the Fixed Resource Requirement (FRR) alternative rather than RPM for the 2015/2016 PJM Planning Year.

In addition, please refer to Attachment 1 of the Company's response to SC 1-24.

WITNESS: Ranie K Wohnhas

KPSC Case No. 2013-00475 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 21 Attachment 1 Page 1 of 2



Interconnection Agreement (East Pool) Proposal to the Operating Committee

Date: March 6, 2012

Subject: 2015/2016 PJM FRR / RPM Capacity Election

Background

AEPSC on behalf of its East operating companies needs to advise PJM of its election as to whether its system, or the individual operating companies, will be in the RPM capacity market for PJM planning year ("PY") 2015/2016 ("15/16") which runs from June 1, 2015 through May 31, 2016, or will self-supply their RTO capacity requirements under the FRR option. Such elections are made three years in advance of the actual delivery year.

Currently and through PY 14/15 the East operating companies provide capacity as a collective group to satisfy their aggregate capacity and reserve requirements to PJM under the FRR alternative. FRR was chosen because it provides efficiencies to the East Pool Members and aligns with the bundled structure and the cost-of-service ratemaking principles of the majority of AEP's eastern states.

Developments in Ohio indicate that in the future Ohio Power ("OPCo") is unlikely to be aligned with the bundled structure and the cost-of-service ratemaking principles of the majority of AEP's eastern states. This suggests that OPCo's election for RPM or FRR for PY 15/16 should be evaluated separately from the other East operating companies. While recent Ohio Commission orders have provided uncertainty as to the exact timing of certain events, Ohio law requires OPCo to legally separate its generation business from its wires business, and it is anticipated that separation remains likely to occur prior to PY 15/16. This suggests that OPCo should elect RPM for PY 15/16.

The other East operating companies, Appalachian Power ("APCo"), Indiana Michigan Power ("I&M) and Kentucky Power ("KPCo") are not governed by the election made by OPCo for PY 15/16. FRR is still a valid and efficient choice for these companies for PY 15/16, since it is anticipated that the Pool Members other than OPCo may ultimately be parties to arrangements that would allow them to continue to elect FRR in the future. In addition, extension of the FRR election to PY 15/16 is only a one year commitment that preserves the companies' current

KPSC Case No. 2013-00475 Commission Staff's Second Set of Data Requests

Dated March 7, 2014

Item No. 21

Attachment 1 Page 2 of 2

status and avoids unnecessary disruption. Additional capacity will be required in PY 15/16 for

these companies to elect the FRR option. APCo, I&M and KPCo have several options for

obtaining the necessary capacity that would permit them to elect the FRR alternative for PY

15/16.

Recommendation

Recommend that Ohio Power elect RPM for PY 15/16.

Recommend that APCo, I&M and KPCo collectively elect FRR for PY 15/16.

Support for Recommendation

1) Recognizing that OPCo will continue to pursue corporate separation and removal from the

East Pool, RPM will give the Company the most options for implementing a full transition to

market. The RPM construct also simplifies the capacity issues surrounding retail customer

choice. Additionally an RPM election (versus continued FRR participation with the other

AEP East Companies) will provide the Company with more flexibility regarding the ultimate

disposition of its capacity resources.

2) At this time it is still beneficial for bundled, regulated utilities such as APCo, I&M and KPCo

to self-supply their PJM capacity obligations collectively through an FRR plan. This

recommendation is based upon the benefits of spreading capacity resource performance

risk over a larger portfolio of resources and greater operating company resource planning

flexibility. Since APCo, I&M and KPCo have elected FRR for the past eight PJM planning

years, this election will only be for one planning year. Otherwise, if the Companies were to

elect RPM it would be for a minimum of five PJM planning years.



KPSC Case No. 2013-00475 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 21 Attachment 2 Page 1 of 1

Minutes of the March 6, 2012 Meeting of the AEP Interconnection Agreement **Operating Committee**

Present:

Committee Representatives

Richard Munczinski - Pool Manager

Charles Patton

- Appalachian Power Company

Counsel/Secretary John Crespo, Esq.

Absent:

Committee Representatives

Paul Chodak III

- Indiana Michigan Power Company

Gregory Pauley

- Kentucky Power Company

Joseph Hamrock - Ohio Power Company

The meeting was called to order at approximately 5:30 p.m. with Mr. Munczinski presiding.

Mr. Munczinski identified one proposal for Operating Committee ("Committee") consideration that was previously distributed to all of the Committee Members:

1) 2015/2016 PJM FRR / RPM Capacity Election (Attachment I)

The Committee Representatives present reviewed the proposal and approved the recommendation by voice vote.

The meeting was adjourned at approximately 5:45 p.m.

Pre-Meeting Note: Mr. Chodak and Mr. Pauley, due to their inability to attend the meeting, reviewed and approved the proposal by e-mail message prior to the meeting.

Post-Meeting Note: Following the meeting, Mr. Joseph Hamrock was also apprised of the Operating Committee action and indicated his approval of the proposal by e-mail message.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 22 Page 1 of 2

Kentucky Power Company

REQUEST

Refer to the response to Item 14 of the Sierra Club's Initial Set of Data Requests.

- a. In the electronic file submitted with the response, there is a worksheet titled "Confirmed Registrations 2013."
 - (1) State whether any of the customers listed on the worksheet are customers of Kentucky Power.
 - (2) If the response to Item (1) above is negative, identify the electric utility of which they are a customer.
 - (3) If the response to Item (1) above is negative, explain why Kentucky Power has provided information that is not germane to its operations.
 - b. Confirm that Kentucky Power has no customers that have opted for demand response other than the Load Control Program.
 - c. Explain what plans Kentucky Power has for performing an assessment of demand response.

KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 22 Page 2 of 2

RESPONSE

- a. (1) None of the customers listed are Kentucky Power customers.
- a. (2) See Attachment 1 to this response.
- a. (3) The information is relevant in determining the types of industries that can provide demand response and in what relative quantities. See the discussion on pages 91- 92 of Kentucky Power's 2013 IRP Report for an explanation of the methodology.
- b. Confirmed.
- c. Kentucky Power has no current plans for performing an additional assessment of demand response.

WITNESS: William K Castle

KPSC Case No. 2013-00478 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 22 Attachment 1

Page 1 of 31

Customer name

Armstrong World Industries 2013 Constellium Rolled Products 2013 Steel of West Virginia 2013

Felman 2013

WVA Manufacturing 2013

Notre Dame 2013

SDI 2013

Air Products 2013

Hartford City Paper 2013

Praxair 2013 IN TEK 2013

BOC Gases Indiana 2013

Timken 2013

Globe Metallurgical 2013 Liberty Casting Company 07340

Central Fiber Corporation 0743740440 9-1

Marietta Memorial Hospital 66060

Kenton Iron Products Luvata Ohio Inc. The Gap, Inc.

Anheuser-Busch, Inc. (Columbus)

Kenton Iron Products Liberty Castings Co

Central Fiber Corporation 0704880000 9-1

Kenton Iron Products

Central Fiber Corporation 0743740440 9-1

The Dutch Corporation 43000 Kenton Iron Products 82000 The Dutch Corporation 53000

Kenton Iron Products

Coshocton County Memorial Hospital 93000

Colgate Palmolive Liberty Castings Co

DR13 VADOC - Keen Mountain Correctional

DR13 WVWA - Sewage Plant
DR13 VADOC - Bland Correctional

DR13 Blacksburg-VPI Sanitation Authority DR13 VADOC - Red Onion State Prison

DR13 Mt. Olive correctional Complex (WVDOC)

Target - Stores Multiple - AEP [Agg] DR13 Target - Stores Multiple - AEP [Agg]

Osco Industries - Jackson [745]
Target - Stores Multiple - AEP [Agg]
DR13 Target - Stores Multiple - AEP [Agg]
Target - Stores Multiple - AEP [Agg]
DR13 Target - Stores Multiple - AEP [Agg]

Utility

Appalachian Power Company
Indiana Michigan Power Company
Indiana Michigan Power Company

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Ohio Power Company
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KPSC Case No. 2013-00478
Commission Staff's Second Set of Data Requests
Dated March 7, 2014
Item No. 22
Attachment 1
Page 2 of 31

<u>Customer name</u> <u>Utility</u>

Target - Stores Multiple - AEP [Agg]

Ohio Power Company

Ohio University [745]

Ohio Power Company

DR13 Ohio University

DR13 Tuttle Crossing [Simon]

Osco Industries - New Boston [745]

DR13 Osco Industries - New Boston

Osco Industries - New Boston

Ohio Power Company

Osco Industries - Portsmouth [745]

DR13 Osco Industries - Portsmouth

DR13 Osco Industries - Portsmouth

Ohio Power Company

DR13 AK Steel - Coshocton

Ohio Power Company

DR13 Target -Stores Multiple-AEP -[Agg2] Ohio Power Company
United Rolls [Whemco][745] Ohio Power Company

United Rolls [Whemco] [745] Ohio Power Company
DR13 United Rolls [Whemco] Ohio Power Company

DR13 Target -Stores Multiple-AEP -[Agg2] Appalachian Power Company
Virginia Polytechnic Institute [745] Appalachian Power Company
DR13 Virginia Polytechnic Institute Appalachian Power Company
DR13 Radford University Appalachian Power Company

Lowes Home IncAppalachian Power CompanyLowes Home IncAppalachian Power CompanyLowes Home IncAppalachian Power CompanyLowes Home IncAppalachian Power Company

Lowes Home Centers Inc

AEP AEPSCG 3 Agg

Ohio Power Company

AEP AEPSCG Agg 2

Ohio Power Company

Ohio Power Company

Ohio Power Company

LOWES OF LIMA, OH.Ohio Power CompanyLowes Home IncAppalachian Power CompanyOwens Illinois 5200Appalachian Power CompanyLowes Home IncAppalachian Power Company

ANR-Paramont Coal Company-Toms Creek

Appalachian Power Company

Appalachian Power Company

Lowes Home Inc Appalachian Power Company
Dominion Coal - 3807 Appalachian Power Company

CTRAH-Lynchburg General Hospital-1901 Tate Springs Rd

Appalachian Power Company
ANR-Dickenson-Russell Coal Company-McClure-Caney Creek
Appalachian Power Company

Lowes Home Inc

Lowes Home Inc

Appalachian Power Company

Dominion Coal Corp Mine - 5620 Appalachian Power Company
Dominion Coal -5002 Appalachian Power Company

Lowes Home Inc 9360 Appalachian Power Company
ANR-Knox Creek-Complex 69KV Appalachian Power Company

Lowes Appalachian Power Company
PEP-SVC Manufacturing Inc Appalachian Power Company
Appalachian Power Company
Appalachian Power Company

General Dynamics - 8520 Appalachian Power Company
United Parcel Service-873 Bonham Rd Appalachian Power Company

Lowes Home Inc Appalachian Power Company
Greif Inc - Gladstone Appalachian Power Company

KPSC Case No. 2013-00478 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 22 Attachment 1

Page 3 of 31

Customer name Utility

Lowes Home Inc Appalachian Power Company

ANR-Paramont Coal Company-Toms Creek Appalachian Power Company

Dominion Coal - 5211 Appalachian Power Company

ANR-Dickenson-Russell Coal Company-Dante (Moss 3) Laurel Mc Appalachian Power Company

Lowes Home Inc **Appalachian Power Company**

AEP AEPSCG 3 Agg Appalachian Power Company

CTRAH-Virginia Baptist Hospital-3300 Rivermont Ave **Appalachian Power Company**

AEP AEPSCG Agg 2 Appalachian Power Company

Pulaski Community Hospital Appalachian Power Company

Medeco **Appalachian Power Company**

LOWES OF ROCKY MOUNT, VA

Appalachian Power Company

United Coal - AEP 5209 **Appalachian Power Company**

Dominion Coal - 8116 Appalachian Power Company

AEP AEPSCG Agg 3 Appalachian Power Company

Dominion Coal - 5221 Appalachian Power Company

Argus Energy Appalachian Power Company

SHLD AEPSCG Agg 1 **Appalachian Power Company**

ANR-Republic-Surface Mine 138KV Appalachian Power Company

ANR-Independence-Complex 69KV Appalachian Power Company

Best Buy AEP Agg 2 Appalachian Power Company

SMC Electrical Products Inc Appalachian Power Company

ANR-Delbarton-Complex34.5KV Appalachian Power Company

Arch Coal Appalachian Power Company

Appalachian Power Company ANR-Mammoth-Complex 46KV

ANR-Road Fork-Guyandotte Mine Appalachian Power Company

Lowes Home Inc Appalachian Power Company

ANR-Brooks Run Mining-Kepler Processing Company Appalachian Power Company

Hampden Coal Co Appalachian Power Company

SHLD AEP AEPSCG Agg 1 Appalachian Power Company

Lowes Home Inc Appalachian Power Company

ANR-Kingston Resources, Inc. Appalachian Power Company

ANR-Rockspring Development, Inc Appalachian Power Company

Coal-Mac Inc-1 Whitman Appalachian Power Company

SHLD AEP AEPSCG Agg 1 **Appalachian Power Company**

Lowes Home Inc Appalachian Power Company

Hendricks **Appalachian Power Company**

St Mary Medical Center Appalachian Power Company

ANR-Brooks Run Mining-Litwar Processing Company Appalachian Power Company

Coal-Mac Inc-1 Ragland Appalachian Power Company

SHLD AEPSCG Agg 1 **Appalachian Power Company**

Lowes Home Inc **Appalachian Power Company**

Diamond Electric Mfg Corp **Appalachian Power Company**

ANR-Stirrat-Complex 46KV Appalachian Power Company

Appalachian Power Company Lowes Home Inc

Lowes Home Inc **Appalachian Power Company**

Appalachian Power Company ANR-Mammoth-Prep Plan 46KV

KPSC Case No. 2013-00478 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 22 Attachment 1 Page 4 of 31

<u>Customer name</u> Utility

ANR-Cobra Natural Resources-Cobra Plant Appalachian Power Company

Commerical Vehicle Group-7800 Walton Pkwy Ohio Power Company **Ohio Power Company** LOWES OF N.E. COLUMBUS OH.

Taylor Lumber Ohio Power Company Taylor Lumber Inc **Ohio Power Company** MBM 4032 Ohio Power Company

Taylor Lumber **Ohio Power Company Abbott Nutrition** Ohio Power Company Lowes Home Inc Ohio Power Company

Columbus Dispatch Ohio Power Company Lowes Home Inc **Ohio Power Company** SHLD AEP DAY Agg 1 Ohio Power Company

SHLD AEP DAY Agg 2 SHLD AEP DAY Agg 1 Ohio Power Company **Lowes Home Inc** Ohio Power Company

Ohio Power Company

LOWES OF E. COLUMBUS OH Ohio Power Company Honeywell-Columbus Ohio Power Company **Superior Die Tool 2521** Ohio Power Company

SHLD AEP DAY Agg 1 **Ohio Power Company Lowes Home Centers Inc** Ohio Power Company Lowes Home Centers Inc Ohio Power Company

SHLD-Sears-1370 Ohio Power Company **Anthony-Thomas Candy Ohio Power Company**

Eramet Marietta Inc Ohio Power Company **Taylor Lumber** Ohio Power Company Lowes Home Centers Inc.

Ohio Power Company El Dupont De NeMour Ohio Power Company Abercrombie Ohio Power Company

Abbott Nutrition Ohio Power Company Boehringer-Ingelheim Roxane Inc. Ohio Power Company LOWES OF N COLUMBUS OH. **Ohio Power Company**

LOWES OF CENTRAL COLUMBUS OH **Ohio Power Company** Taylor Lumber Ohio Power Company

Lowes Home Centers Inc **Ohio Power Company** LOWES OF DUBLIN OH. Ohio Power Company SHLD AEPSCG Agg 1 **Ohio Power Company** City of Chillicothe Ohio Power Company SHLD AEP DAY Agg 2 Ohio Power Company

LOWES OF CHILLICOTHE OH. Ohio Power Company **Robbins LLC Ohio Power Company**

Lowes AEPSCG Agg 1 **Ohio Power Company Ohio Power Company Tegrant Corp** Ralcorp Holdings **Ohio Power Company Lowes Home Centers Inc Ohio Power Company**

Production Products - 2003 Ohio Power Company Ohio Power Company Husky Lima Refining Company

KPSC Case No. 2013-00478 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 22 Attachment 1 Page 5 of 31

<u>Customer name</u> Utility

Lowes AEPSCG Agg 1 **Ohio Power Company Luk USA LLC** Ohio Power Company Samuel Strapping **Ohio Power Company Greer Steel Company** Ohio Power Company **Lowes Home Centers Inc Ohio Power Company AEP AEPSCG Agg 3 Ohio Power Company Lowes Home Centers Inc Ohio Power Company** American Axle-Minerva Ohio Power Company Miba Bearings US LLC **Ohio Power Company** City of Findlay 5000 **Ohio Power Company** Atlas Ind Inc-401 Wall St **Ohio Power Company** AMG Vanadium inc Ohio Power Company

Atlas Ind Inc-1750 E State St

LOWES OF WHEELERSBURG, OH.

Advanced Prainage Systems 422 Olive St.

Ohio Power Company
Ohio Power Company

Advanced Drainage Systems-433 Olive St

Ohio Power Company
SHLD-Sears-3325

Ohio Power Company
SHLD-Sears-1410

Ohio Power Company
Durez Corp

Ohio Power Company
SHLD-Sears-3784

Ohio Power Company

Omio Power Company
Owens Corning Sales, LLC
Ohio Power Company
Owens Illinois 3000
Ohio Power Company
Commerical Vehicle Group-60581 State Route 7
Ohio Power Company

Lowes Home Centers Inc

Gerber Poultry Inc

City of Findlay

American Axle - Malvern

Ohio Power Company

Ford Lima Ohio Power Company
Kaiser Aluminum Corporation - Newark Ohio Power Company

AEP AEPSCG Agg 2 Ohio Power Company
SHLD-Sears-3555 Ohio Power Company

Silgan Plastics Corporation-Dallas Pike Industrial Park

Appalachian Power Company

Reynolds Memorial Hospital

Reynolds Memorial Hospital

Appalachian Power Company
Warren Distribution

Lowes Home Inc 1151

COX-5400 Fallowater Lane

Best Buy AEP Agg 3

Appalachian Power Company
Appalachian Power Company
Appalachian Power Company
Appalachian Power Company

Best Buy AEP Agg 3

Appalachian Power Company
Best Buy AEP Agg 2

Appalachian Power Company
Best Buy AEP Agg 3

Appalachian Power Company
COX-220 20th St SW

Appalachian Power Company
Best Buy AEP Agg 1

Ohio Power Company

Best Buy AEP Agg 1

Best Buy AEP Agg 3

Ohio Power Company

Ohio Power Company

Ohio Power Company

Best Buy AEP Agg 4

Ohio Power Company

Best Buy AEP Agg 2

Ohio Power Company

Best Buy AEP Agg 4

Ohio Power Company

Ohio Power Company

Ohio Power Company

Ohio Power Company

KPSC Case No. 2013-00478 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 22 Attachment 1

Page 6 of 31

<u>Customer name</u> <u>Utility</u>

Lowes Home Centers Inc Ohio Power Company
Lowes Home Centers Inc Ohio Power Company

Leveltek Processing LLC

Appalachian Power Company
Best Buy AEP Agg 1

Liberty University-1 Mountain View Rd

Lynchburg College

Appalachian Power Company
Appalachian Power Company
Liberty University-1971 University Blvd

Appalachian Power Company

CLRCH-Standard Printing Company
CLRCH-Ohio Valley Medical Center - East Ohio Regional Hospital Ohio Power Company
CLRCH-Ohio Valley Medical Center - East Ohio Regional Hospital Ohio Power Company

CLRCH-Ohio Valley Medical Center - Ohio Valley Medical Center Appalachian Power Company
SDI - Roanoke Electric Steel Econ 2013 Appalachian Power Company
SDI - Roanoke Electric Steel ERPM 2013 Appalachian Power Company
NP -Supervalu Milton Div ERPM 2013 Appalachian Power Company

City of Marietta 8th St-ERPM 2013

City of Marietta 1954-ERPM 2013

City of New Philadelphia 310 ERPM 2013

City of New Philadelphia 1422 ERPM 2013

Ohio Power Company

City of New Philadelphia 1422 ERPM 2013

Ohio Power Company

Lane Enterprises Inc Appalachian Power Company
Mar Bal Inc Appalachian Power Company
Independence Lumber - 6 Sites Appalachian Power Company
Hannah Lumber Company Appalachian Power Company

American Red Cross - Columbus, OH
Ohio Power Company
Ohio Fresh Eggs LLC
Ohio Power Company
West Muskingum High School (150 Kimes Rd (073-534-088-0))
Ohio Power Company

Mehler Engineered Products Appalachian Power Company Boxley Materials - Block - 2 Sites Appalachian Power Company Austinville Limestone Company Appalachian Power Company **Conwed Plastics Inc Appalachian Power Company Pounding Mill** Appalachian Power Company Roth OMX - 6 Sites Appalachian Power Company Roth OMX - 6 Sites Appalachian Power Company Turman Sawmill Hillsville **Appalachian Power Company**

Independence Lumber - 6 Sites Appalachian Power Company Wayrick Inc., Tazewell Appalachian Power Company The Glebe Retirement Community Appalachian Power Company Boxley Materials - Block - 2 Sites Appalachian Power Company **BedfordCPS - Forest Middle School** Appalachian Power Company Woodgrain MillworkMarion VA - 2 Sites Appalachian Power Company Roanoke Times - 120 Salem Avenue Appalachian Power Company Scholle VA Appalachian Power Company

Turman Hardwood Flooring
City of Lynchburg, VA
Appalachian Power Company
Boxley
Appalachian Power Company
Appalachian Power Company
Appalachian Power Company
United Salt
Appalachian Power Company

KPSC Case No. 2013-00478 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 22 Attachment 1

Page 7 of 31

Customer name

RockTenn Paperboard Lynchburg

BedfordCPS - Thomas Jefferson Elementary

Pepsi - Wytheville Salem Stone Corporation Cardinal IG Co Vinton VA

Municipal South

CBL

The Mennel Milling Company - Roanoke__Econ

The Mennel Milling Company - Roanoke

Ion Media Networks - 5 sites Ferguson Land Lumber Company Adams Construction - 4 Sites Griffin Pipe-Lynchburg AEP

Town of Christiansburg - Aquatic Center

E Dillon Company

Sure Wood Forest Products

Pounding Mill

Independence Lumber - 6 Sites **Cave Spring Baptist Church**

Boxley

Adams Construction - 4 Sites **Salem Stone Corporation** Hopkins Lumber - Ridgeway

Town of Christiansburg - Recreation Center

American Wood Fibers

Ferguson Land Lumber Company Corning Inc Blacksburg VA Adams Construction - 4 Sites

Ten Oaks Boxlev

Salem Stone Corporation

Frank Chervan Inc.

Ferguson Land Lumber Company General Shale Webster Inc (Roanoke)

Turman Hardwood Flooring

Banker Steel

Hutchinson Sealing Systems Ion Media Networks - 5 sites

River Ridge Mall CBL

United Coal Company Wellmore Coal#7 and #8 Prep Plants

Hometown Ice LOA

General Shale Products LLC (Marion) Pepsi Bottling Group - Roanoke, VA Woodgrain MillworkMarion VA - 2 Sites

RR Donnelley

Roanoke Times - 201 Campbell Avenue

Utility Appalachian Power Company

Appalachian Power Company

Appalachian Power Company

Appalachian Power Company

Appalachian Power Company

Appalachian Power Company

Appalachian Power Company

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KPSC Case No. 2013-00478
Commission Staff's Second Set of Data Requests
Dated March 7, 2014
Item No. 22
Attachment 1
Page 8 of 31

<u>Customer name</u> <u>Utility</u>

Delta Star Appalachian Power Company

Salem Stone Corporation Appalachian Power Company
Department of Veterans Affairs Appalachian Power Company

City of Lynchburg College Hill Water Plant Appalachian Power Company

Roanoke City Sheriff 1 Appalachian Power Company
Roanoke City Civic Center Appalachian Power Company
Roanoke City Civic Center Appalachian Power Company

Hopkins Lumber - Stuart /Spencer Location Appalachian Power Company

Roanoke Cement

Conwed Plastics Inc

City of Lynchburg, VA

Appalachian Power Company
Appalachian Power Company
Appalachian Power Company
Appalachian Power Company

Mountain Forest Products Appalachian Power Company

Pine Products Appalachian Power Company

Turman Sawmill Hillsville Appalachian Power Company GCSD - Giles HS - 2 Sites Appalachian Power Company

Turman Lumber Appalachian Power Company

Appalachian Power Company

Wexco Corp Appalachian Power Company

Marvin V Templeton and Sons Appalachian Power Company

Pine Products Appalachian Power Company

BedfordCPS - Jefferson Forest High School Appalachian Power Company

Quadrant EPP USA Inc.

Appalachian Power Company
Hutchinson Sealing Systems

VF Corporation-Martinsville

Appalachian Power Company
Appalachian Power Company

VF Corporation-Martinsville Appalachian Power Company
Courthouse Appalachian Power Company

Courthouse Appalachian Power Company
Ion Media Networks - 5 sites Appalachian Power Company

Town of Christiansburg - WWTP Appalachian Power Company

Banker Steel Appalachian Power Company

Ion Media Networks - 5 sites Appalachian Power Company

GS Industries Appalachian Power Company

BAE Systems - Radford, VA Appalachian Power Company

Roth OMX - 6 Sites Appalachian Power Company

FederalMogul Appalachian Power Company

Salem Stone Corporation Appalachian Power Company
PWSC - Service Center Appalachian Power Company

BedfordCPS - Montvale Elementary Appalachian Power Company

Boxley Appalachian Power Company

RR Donnelley Lynchburg VA

Appalachian Cast Products

Appalachian Power Company

Meadow River Appalachian Power Company

Twin River Hardwoods Appalachian Power Company

SDR Plastics Inc Appalachian Power Company
Pounding Mill Appalachian Power Company
ATandT Services Inc Appalachian Power Company

Star Plastics - 3 Sites Appalachian Power Company

Appalachian Power Company

Appalachian Power Company

Frontier-Charleston WV (Macorkle)

Zim&apos Bagging Co Inc

Appalachian Power Company

Appalachian Power Company

KPSC Case No. 2013-00478 Commission Staff's Second Set of Data Requests Dated March 7, 2014 Item No. 22 Attachment 1 Page 9 of 31

Utility Customer name

Frontier-Logan WV Appalachian Power Company **Appalachian Power Company ATandT Services Inc Appalachian Power Company United Coal Company AEP Clonch Industries Appalachian Power Company** United Coal Company - Pocahontas Coal - Lily Brook Road__Ecor Appalachian Power Company

United Coal Company Pocahontas Coal Appalachian Power Company

WSAZ - TV 3 - ELRP Appalachian Power Company

Appalachian Power Company Maple Coal **Appalachian Power Company**

United Coal Company Pocahontas Coal State Rt 33

Huntington Sanitary Board WWTP Appalachian Power Company ATandT Services Inc Appalachian Power Company

Appalachian Power Company Charleston Civic Center **Appalachian Power Company** ATandT Services Inc

Appalachian Power Company City of Nitro - 2 Sites

Appalachian Power Company Putnam Public Service District

Appalachian Power Company Montgomery General Hospital Appalachian Power Company Allegheny Wood Products Princeton

Frontier-St. Albans WV **Appalachian Power Company**

ATandT Services Inc Appalachian Power Company

Appalachian Power Company Beckley Complex

ATandT Services Inc Appalachian Power Company Ion Media Networks Charleston **Appalachian Power Company**

Appalachian Power Company Allevard Sogefi - Prichard, WV

Allegheny Wood Products Princeton - 2 Sites **Appalachian Power Company**

Appalachian Power Company Frontier-Huntington WV (6th Ave)

Appalachian Power Company City of Nitro - 2 Sites

US Food Service Hurricane Appalachian Power Company Appalachian Power Company New River Hardwoods

Appalachian Power Company Frontier-Beckley WV

Appalachian Power Company Allegheny Wood Products Princeton - 2 Sites

Appalachian Power Company ATandT Services Inc

Frontier-Huntington WV (Pea Ridge Rd) Appalachian Power Company

Appalachian Power Company Star Plastics - 3 Sites

Appalachian Power Company Charleston Newspapers

Appalachian Power Company Home City Ice Appalachian Power Company Thomas Memorial Hospital Appalachian Power Company

Facemyer Resources Appalachian Power Company ATandT Services Inc

CCSD - Kingswood Data Center Ohio Power Company

WCSD - Wilder Elem - 2 Sites Ohio Power Company

Ohio Power Company Wincup OH **Ohio Power Company** Ohio Fresh Eggs LLC

City of Delaware Water Treatment Plant Ohio Power Company **Ohio Power Company** Hilliard City SD - Scioto Darby Elementary - 2 Sites

Ohio Power Company New Albany Elementary School CCSD - Briggs HS **Ohio Power Company**

KPSC Case No. 2013-00478
Commission Staff's Second Set of Data Requests
Dated March 7, 2014
Item No. 22
Attachment 1
Page 10 of 31

Customar nama	Utility
CCSD - Briggs HS	Ohio Power Company
SYGMA - Columbus	Ohio Power Company
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Worthington City Schools - Thomas Worthington ATT - AEP - 5	Ohio Power Company
	Ohio Power Company
DataCenter.BZ	Ohio Power Company
ATT - AEP - 20 - 5 Sites	Ohio Power Company
Worthington City Schools - Perry Middle - 2 Sites	Ohio Power Company
Hilliard City SD - Scioto Darby Elementary - 2 Sites	Ohio Power Company
Sonoco - New Albany OH	Ohio Power Company
ATT-AEP-17	Ohio Power Company
Delaware County Ohio Regional Sewer District - Alum Creek Pun	• •
Reynoldsburg City SD - Livingston High School	Ohio Power Company
CCSD - Downtown HS	Ohio Power Company
Delaware County Ohio Regional Sewer District - Alum Creek/Wa	• •
ATT - AEP - 19	Ohio Power Company
Facemyer Forest ProductsOhio - 4 Sites	Ohio Power Company
City of Columbus-Morse East - 4 Sites	Ohio Power Company
Big Walnut High School	Ohio Power Company
Mondo Polymer Technologies - 8 Sites	Ohio Power Company
Foote Foundry - 2 sites	Ohio Power Company
Mondo Polymer Technologies - 8 Sites	Ohio Power Company
WCSD - Wilder Elem - 2 Sites	Ohio Power Company
Hamilton Elementary School	Ohio Power Company
Olentangy SD - Orange Middle School	Ohio Power Company
Frontier-Circleville OH	Ohio Power Company
Adena Regional Medical Center	Ohio Power Company
Olentangy SD - Berkshire Middle School	Ohio Power Company
Reynoldsburg City SD - Hannah Ashton Middle School - 3 Sites	Ohio Power Company
Hilliard City SD- Tharp Sixth Grade School - 3 Sites	Ohio Power Company
Sonoco - New Albany OH	Ohio Power Company
Ohio Fresh Eggs LLC	Ohio Power Company
Olentangy SD - Liberty High School	Ohio Power Company
New Albany Middle School	Ohio Power Company
Burr Oak - Well Field	Ohio Power Company
ATT - AEP - 22	Ohio Power Company
Ohio Fresh Eggs LLC - 3 Sites	Ohio Power Company
ATT - AEP - 20 - 5 Sites	Ohio Power Company
Hilliard City SD - Heritage Middle School	Ohio Power Company
City of Columbus-Cleveland	Ohio Power Company
CCSD - Mifflin HS	Ohio Power Company
CCSD - Mifflin HS	Ohio Power Company
ATT - AEP - 6	Ohio Power Company
Reynoldsburg City SD - Slate Ridge Elementary	Ohio Power Company
CCSD - Eastmoor HS	Ohio Power Company
Battelle Memorial Institute - King Ave	Ohio Power Company
Worthington City Schools - Perry Middle - 2 Sites	Ohio Power Company

KPSC Case No. 2013-00478
Commission Staff's Second Set of Data Requests
Dated March 7, 2014
Item No. 22
Attachment 1
Page 11 of 31

Customan name	
<u>Customer name</u>	<u>Utility</u>
RR Donnelley	Ohio Power Company
Menards 3273 - COLUMBUS, OH	Ohio Power Company
CCSD - Marion Franklin HS	Ohio Power Company
Sidwell - 4 Sites	Ohio Power Company
Hamilton Educational Service Center	Ohio Power Company
Allied Mineral - all bldgs	Ohio Power Company
Worthington City Schools - McCord - 2 Sites	Ohio Power Company
Ross County	Ohio Power Company
•	
Reynoldsburg City SD - Taylor Road Elem	Ohio Power Company
Cloverleaf Columbus OH	Ohio Power Company
Capital City Ice	Ohio Power Company
Worthington City Schools - Worthingway	Ohio Power Company
ATT - AEP - 20 - 5 Sites	Ohio Power Company
CCSD - New AIMS	Ohio Power Company
CCSD - Whetstone HS	Ohio Power Company
ATT - AEP - 20 - 5 Sites	Ohio Power Company
Ohio Fresh Eggs LLC	Ohio Power Company
Del-Co	Ohio Power Company
Mount Carmel Health	Ohio Power Company
Amer Bath Sewage TMT - 6 Sites	Ohio Power Company
DCSD Hayes High School	
• -	Ohio Power Company
Adams County Regional Medical Center	Ohio Power Company
Olentangy SD -Liberty Middle School	Ohio Power Company
Dayton Rogers of Ohio Inc	Ohio Power Company
Mondo Polymer Technologies - 8 Sites	Ohio Power Company
Reynoldsburg City SD - Hannah Ashton Middle School - 3 Sites	Ohio Power Company
McGraw Hill - Orion	Ohio Power Company
Sonoco - New Albany OH	Ohio Power Company
Hamilton Intermediate School	Ohio Power Company
Worthington City Schools - Kilbourne Middle	Ohio Power Company
CCSD - Franklin MS	Ohio Power Company
Hilliard City SD - Davidson High School	Ohio Power Company
Worthington City Schools - McCord - 2 Sites	Ohio Power Company
Hilliard City SD- Tharp Sixth Grade School - 3 Sites	Ohio Power Company
Del-Co	Ohio Power Company
Ashland Inc-Chemical-Dublin	
	Ohio Power Company
CCSD - Walnut Ridge HS	Ohio Power Company
Sonoco - Columbus,OH Unit A	Ohio Power Company
ATT - AEP - 24	Ohio Power Company
Ohio Dominican University	Ohio Power Company
Delaware County Ohio Regional Sewer District - OECC	Ohio Power Company
Facemyer Forest ProductsOhio - 4 Sites	Ohio Power Company
DCSD Dempsey Middle School	Ohio Power Company
Reynoldsburg City SD - Waggoner Road Middle - 2 Sites	Ohio Power Company
Hilliard City SD- Tharp Sixth Grade School - 3 Sites	Ohio Power Company
CORE MOLDING TECHNOLOGIES, INC	Ohio Power Company
•	

Page 12 of 31

Customer name Utility Burr Oak - South Plant Ohio Power Company **CCSD - West Mound ES** Ohio Power Company Worthington City Schools - Worthingway Ohio Power Company Alloy Polymers Gahanna **Ohio Power Company** Hilliard City SD - Support Svcs. Ohio Power Company Battelle Memorial Institute - West Jefferson Ohio Power Company ATT - AEP - 15 Ohio Power Company **Big Walnut Middle School Ohio Power Company** CCSD - Northland HS **Ohio Power Company** CCSD - New Indianola K-8 **Ohio Power Company** Olentangy SD - Hyatts Middle School Ohio Power Company Hilliard City SD - Bradley High School **Ohio Power Company** Ohio Fresh Eggs LLC - 3 Sites Ohio Power Company **Roth JAS Ohio Power Company** Sonoco - Columbus, OH Unit B Ohio Power Company Reynoldsburg City SD - Waggoner Road Junior High Ohio Power Company Interstate Cold - Setterlin Ohio Power Company Delaware County Ohio Regional Sewer District - OECC Ohio Power Company Mid Ohio Foodbank **Ohio Power Company** Olentangy SD - Olentangy High School Ohio Power Company Hilliard City SD - Weaver Middle School **Ohio Power Company** WCSD - Fouse - 2 Sites Ohio Power Company Heidelberg - France **Ohio Power Company** CCSD - Trevitt ES **Ohio Power Company** Capital City Ice **Ohio Power Company ACSD High School Ohio Power Company** Amsted Rail - Groveport **Ohio Power Company** Home City Ice Ohio Power Company City of Delaware Water Treatment Plant **Ohio Power Company** DCSD Hayes High School **Ohio Power Company ATT - AEP - 21 Ohio Power Company** Reynoldsburg City SD - Baldwin Road Middle Ohio Power Company AT&T - HLRDOHEJ - 4199 Weaver Court, Hilliard, OH - Mobility **Ohio Power Company** Amer Bath Sewage TMT - 6 Sites Ohio Power Company City of Columbus-Morse East - 4 Sites **Ohio Power Company** Olentangy SD - Shanahan Middle School Ohio Power Company **TPCWD LOA** Ohio Power Company Mount Carmel Health Ohio Power Company Menards 3255 - CHILLICOTHE, OH Ohio Power Company Pike Water Inc Ohio Power Company CCSD - Independence HS **Ohio Power Company** Hamilton Township High School Ohio Power Company Menards 3280 - COLUMBUS, OH **Ohio Power Company** WCSD - Fouse - 2 Sites Ohio Power Company Coca Cola Columbus OH **Ohio Power Company**

Ohio Power Company

ATT - AEP - 20 - 5 Sites

<u>Customer name</u>	Utility	
Flexmag Industries Inc	Ohio Power Company	
Hilliard City SD - Darby High School	Ohio Power Company	
DCSD Willis Intermediate School	Ohio Power Company	
ATT - AEP - 21	Ohio Power Company	
CCSD - Beechcroft HS	Ohio Power Company	
Mount Carmel	Ohio Power Company	
City of Columbus-Henderson	Ohio Power Company	
Leo Yassenoff Jewish Community Center Of Greater Columbus	Ohio Power Company	
Worthington City Schools - Sutter Park - 3 Sites	Ohio Power Company	
CCSD - Hudson Dist. Center	Ohio Power Company	
Worthington City Schools - Sutter Park - 3 Sites	Ohio Power Company	
Ames True Temper Dexter City - 2 Sites	Ohio Power Company	
Worthington City Schools - Worthington Kilbourne	Ohio Power Company	
WCSD - Central HS	Ohio Power Company	
EWI	Ohio Power Company	
Worthington City Schools - Sutter Park - 3 Sites	Ohio Power Company	
Diagnostic Hybrids	Ohio Power Company	
Worthington City Schools - Admin Offices	Ohio Power Company	
Olentangy SD - Olentangy Orange High School	Ohio Power Company	
Allied Mineral - all bldgs	Ohio Power Company	
WCSD - Genoa	Ohio Power Company	
Ames True Temper Dexter City - 2 Sites	Ohio Power Company	
Interstate Cold - Roberts	Ohio Power Company	
ATT - AEP - 16	Ohio Power Company	
Del-Co	Ohio Power Company	
Magnum Magnetics Magnetic Specialty LLC	Ohio Power Company	
Visteon Corporation Benton Harbor	Indiana Michigan Power Company	
Visteon Corporation Crystal	Indiana Michigan Power Company	
Wastewater Treatment Plant	#N/A	
Portola Packaging	#N/A	
Aggregates USA LLC - 2 Sites	#N/A	
Air Products - Kingsport, TN	#N/A	
Water Treatment Plant	#N/A	
Hillcrest Pump Station	#N/A	
Raw Water Intake	#N/A	
Aggregates USA LLC - 2 Sites	#N/A	
BAE Systems - Holston Army Ammunition Plant	#N/A	
WPCP City of Wooster	Ohio Power Company	
Morgan Local School District - High School	Ohio Power Company	
Ohio Coatings Co	Ohio Power Company	
CCSD - Coshocton High School	Ohio Power Company	
Heidelberg - Miller	Ohio Power Company	
City Laundry	Ohio Power Company	
City of Lima Dp 9 WWTP	Ohio Power Company	
Bridgestone AVD Plant - 235 Commerce Way	Ohio Power Company	
Essroc Middlebranch	Ohio Power Company	

<u>Customer name</u> <u>Utility</u>

Pepsi Bottling Group - Lima, OH
Crooksville Exempted School District - K-7 School

LCSD - 700 E North

The Mennel Milling Company - Bucyrus

Stark State College - 5 Sites

Heidelberg - CKM-Sci Hall-Bareis-Laird

CCSD - Hartford Middle School

Home City Ice

Sidwell Saint Clairsville - 2 Sites Menards 3184 - LIMA, OH

Mondo Polymer Technologies - 8 Sites New Lexington City SD -High School East Muskingum Middle School - 3 sites

CCSD - Fairmount School - 2 Sites

Longaberger - 6 Sites Foote Foundry

Ohio Fresh Eggs LLC Bridgestone Foam Plant

Frontier-Cambridge OH Bunker Hill Cheese Co Inc

Tri-Valley Local Schools

Graham Packaging Fremont OH Lima Memorial Hospital

City of Tiffin - Water St. Longaberger - 6 Sites

CCSD - McKinley Senior High School

Land O Lakes Wooster OH Millwood Apple Creek - 3 Sites Nissin Brake Ohio - Site 2 CCSD - Gibbs Elementary Hecla Water Association

CCSD - Harter Elementary

ATT - AEP - 3

National Lime and Stone Buckland Beaver Wood Products - 2 Sites

Heidelberg - France

LCSD - 700 E North - 3 Story - 3 Sites

Stark State College - 3 Sites Imasen Bucyrus Technology Heidelberg - Beeghly

CCSD - Timken Senior High School

Universal Veneer

PSC Metals, Inc.

Stark State College - 5 Sites Arboris, LLC - 4 Sites

John Glenn High School

Ohio Power Company

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<u>Customer name</u> <u>Utility</u>

Mount Vernon WTP
Advanced Fiber Technology-ELRP
Ohio Power Company
Magnum Magnetics Magnetic Specialty LLC
Ohio Power Company
PSC Metals - Wooster
Ohio Power Company
Midwest Industries Inc.
Ohio Power Company
RR Donnelley Hebron OH
Ohio Power Company

National Lime and Stone Lima
Ohio Power Company
Findlay Machine and Tool
Ohio Power Company
Rosebud Mining - Tusky Mine and Prep
Ohio Power Company
National Lime and Stone Bucyrus
Ohio Power Company

Superior Clay Corp Ohio Power Company
M&B Asphalt Ohio Power Company
Mount Vernon WWTP Ohio Power Company

Mount Vernon WWTP

Longaberger - 6 Sites

Ohio Power Company
International Automotive

Chio Power Company
Laminate Technologies

Ohio Power Company
Arboris, LLC - 4 Sites

Ohio Power Company

City of Columbus-Morse East - 4 Sites Ohio Power Company
M-Tek Ohio Power Company

Ampacet Ohio Power Company
Crooksville Exempted School District - High School Ohio Power Company

POET Biorefining - Fostoria Ohio Power Company
Amer Bath Sewage TMT - 6 Sites Ohio Power Company
Newark WWTP and Sewer System Ohio Power Company

Stark State College Ohio Power Company
Case Farms Processing Ohio Power Company

CCSD - Allen Elementary School Ohio Power Company
Guardian Lima Ohio Power Company

Sonoco - Canton, OH

Ohio Power Company

Bridgestone AVD Plant - 235 Commerce Way

Ohio Power Company

LCSD - Calumet Ave Ohio Power Company

Longaberger Ohio Power Company
Facemyer Forest ProductsOhio - 4 Sites Ohio Power Company

Foote Foundry Ohio Power Company

ATT - AEP - 13 Ohio Power Company
Millwood Ae Creek Plant Mn Bldg Mtr #1 Ohio Power Company

City of Cambridge Ohio Power Company
Burnham Corp Ohio Power Company

Graham Packaging Findlay OH

Mondo Polymer Technologies - 8 Sites

Ohio Power Company

Bridgestone AVD Plant - 235 Commerce Way

Ohio Power Company

New Lexington City SD - Elementary School

Newark Group - Ohio__Econ

Ohio Power Company

Ohio Power Company

Ohio Power Company

Newark Group OhioOhio Power CompanyBUCKEYE CONTAINER COOhio Power Company

International Automotive Components (AC) North America Ohio Power Company

<u>Customer name</u> <u>Utility</u>

Sonoco - Tiffin, OH **Ohio Power Company** Carmeuse Lime and Stone, Inc. **Ohio Power Company** Longaberger - 6 Sites Ohio Power Company CCSD - Lehman Middle School Ohio Power Company **Gross Lumber Inc Ohio Power Company** CCSD - Belden School **Ohio Power Company** Reynoldsburg City SD - Reynoldsburg High School (Summit camp Ohio Power Company Reynoldsburg City SD - Reynoldsburg High School (Summit camp Ohio Power Company **Mattingly Foods Inc Ohio Power Company** Mondo Polymer Technologies - 8 Sites Ohio Power Company Fresh Mark - Canton Ohio Power Company Home City Ice **Ohio Power Company GREGORY INDUSTRIES INC Ohio Power Company** Stark State College - 3 Sites Ohio Power Company Tri-Valley Local Schools Ohio Power Company Tri-Valley Local Schools - 2 Sites **Ohio Power Company** LCSD - Cable Rd. **Ohio Power Company Boltaron Performance Products LLC Ohio Power Company** Molten-Findlay **Ohio Power Company** Herbert E Orr Co - 2 Sites **Ohio Power Company** Kenyon College **Ohio Power Company Biery Cheese Ohio Power Company** Water Treatment City of Wooster Ohio Power Company Sidwell - 4 Sites **Ohio Power Company** City of Cambridge Ohio Power Company Monogram Metals **Ohio Power Company** Stark State College - 5 Sites Ohio Power Company Amer Bath Sewage TMT - 6 Sites **Ohio Power Company** Lawrence County - WWTP Ohio Power Company Scioto County Regional Water District No 1 **Ohio Power Company** RTH Processing Meter 1 Ohio Power Company Heinz N 5th St Fremont OH Ohio Power Company Ohio Power Company National Lime and Stone Findlay **Ohio Power Company** Longaberger CCSD - Clarendon School Ohio Power Company CCSD - Cedar Elementary School Ohio Power Company Twin City Hospital - 2 Sites Ohio Power Company International Automotive Components - Fremont, OH__Econ Ohio Power Company International Automotive Components (AC) North America **Ohio Power Company** Yoder Lumber Township Road **Ohio Power Company** LCSD - Saint John Ave Ohio Power Company Ohio Power Company M&B Asphalt **Tri-Valley Local Schools** Ohio Power Company Sidwell - 4 Sites **Ohio Power Company** Alamo Group Inc The Gradall Company Ohio Power Company Rosebud Mining - Vail **Ohio Power Company**

<u>Customer name</u> <u>Utility</u>

Lafarge Paulding
CCSD - Arts Academy/Summit
CCSD - Timken Campus
Ohio Power Company
Tiffin University - Gillmor Student Center
Ohio Power Company
Menards 3214 - MARION, OH
Ohio Power Company

Longaberger - 6 Sites

Chio Power Company
Republic Steel Canton Ohio
Constar International Hebron Ohio
POET Biorefining - Leipsic

D S Brown

Chio Power Company
Ohio Power Company
Ohio Power Company
Ohio Power Company
Ohio Power Company

City of Columbus-Morse East - 4 Sites

Ohio Power Company
SOLMET TECHNOLOGIES INC

Webster Industries

Ohio Power Company
RR Donnelley Willard OH

Ohio Power Company
Tri-Valley Local Schools - 2 Sites

Ohio Power Company
Tri-Valley Local Schools - 2 Sites

Ohio Power Company
Bucyrus - WWTP

Ohio Power Company

Mondo Polymer Technologies - 8 Sites Ohio Power Company Sidwell Saint Clairsville - 2 Sites Ohio Power Company Facemyer Forest ProductsOhio - 4 Sites Ohio Power Company Tri-Valley Local Schools - 2 Sites Ohio Power Company Herbert E Orr Co - 2 Sites Ohio Power Company Sonoco - Tiffin, OH Ohio Power Company Longaberger - 6 Sites **Ohio Power Company** Foote Foundry - 2 sites **Ohio Power Company**

Stark State College - 5 Sites Ohio Power Company **ESCO/Bucyrus Blades Ohio Power Company** The Mennel Milling Company - Fostoria Econ Ohio Power Company The Mennel Milling Company - Fostoria Ohio Power Company Beaver Wood Products - 2 Sites Ohio Power Company LCSD - 700 E North - 3 Story - 3 Sites Ohio Power Company Millwood Apple Creek - 3 Sites Ohio Power Company CCSD - Crenshaw Middle School **Ohio Power Company** Constar International Hebron Ohio Ohio Power Company Heidelberg - Campus Center Ohio Power Company Heidelberg - France Ohio Power Company Technibus (Canton, OH) **Ohio Power Company**

Reynoldsburg City SD - Waggoner Road Middle - 2 Sites Ohio Power Company Maysville Local School District - 3725 Panther Dr. **Ohio Power Company** Kenyon College **Ohio Power Company Heritage Plastics** Ohio Power Company Frontier-New Philadelphia OH Ohio Power Company **Denison University Ohio Power Company** Ohio Power Company Millwood Apple Creek - 3 Sites Kalmbach Feeds - 7148 State Highway 199 **Ohio Power Company**

Ohio Power Company

Arboris, LLC - 4 Sites

Customer name

Twin City Hospital - 2 Sites Heinz 1301 Heinz Rd Fremont OH Stark State College - 5 Sites

Bunge N America

Amer Bath Sewage TMT - 6 Sites

Morgan Local School District - Junior High

Carmeuse Lime and Stone, Inc.

Bridgestone AVD Plant - 235 Commerce Way Bridgestone AVD Plant - 235 Commerce Way Aleris Rolled Products Commonwealth Aluminum

RTH Processing Meter 2

Career&Technology Main Meter
Tiffin University - Heminger Center

PPG Natrium
PPG Natrium
PPG Natrium
PPG Natrium

Wolf Creek Water Reclamation

Roth OMX - 6 Sites

Independence Lumber - 6 Sites

GCSD - Giles HS - 2 Sites

BedfordCPS - Jefferson Forest High School - 2 Sites

BedfordCPS - Staunton River Middle Independence Lumber - 6 Sites

Roth OMX - 6 Sites

Ion Media Networks - 5 sites Adams Construction - 4 Sites Independence Lumber - 6 Sites

Roth OMX - 6 Sites

BedfordCPS - Goodview Elementary

BedfordCPS - Jefferson Forest High School - 2 Sites

City of Lynchburg, VA

Wolf Creek Water Reclamation Facility

Frontier-Bluefield WV

Frontier-Charleston WV (Venable Ave)

Frontier-South Charleston WV Sinclair Broadcasting Group

Sinclair Broadcast Group WCHS TV 8 Charleston

ATandT Services Inc Frontier-Dunbar WV WSAZ - TV 3 - ELRP Office Max - 3 Sites

EWI - 3 Sites

Frontier-Delaware OH ATT - AEP - Aggregation

EWI - 3 Sites

Utility

Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company

Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company

Ohio Power Company
Appalachian Power Company

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Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company Ohio Power Company

Page 19 of 31

<u>Customer name</u>	<u>Utility</u>
ATT - AEP - 12	Ohio Power Company
Roth OMX - 5 Sites	Ohio Power Company
Roth OMX - 5 Sites	Ohio Power Company
Roth OMX - 5 Sites	Ohio Power Company
Roth OMX - 5 Sites	Ohio Power Company
ATT - AEP - 7	Ohio Power Company
ATT - AEP - 1	Ohio Power Company
Frontier-Minerva OH	Ohio Power Company
Twin City Hospital	Ohio Power Company
Roth OMX - 5 Sites	Ohio Power Company
East Muskingum Middle School - 3 sites	Ohio Power Company
Shawnee #2 TMT Plant	Ohio Power Company
EWI - 3 Sites	Ohio Power Company
Scioto County Regional Water District No 1 326 Robert Lucas Rd	Ohio Power Company
Mondo Polymer Technologies - 8 Sites	Ohio Power Company
East Muskingum Middle School - 3 sites	Ohio Power Company
Sidwell - 4 Sites	Ohio Power Company
Water Treatment City of Wooster	Ohio Power Company
Amer Bath Sewage TMT - 6 Sites	Ohio Power Company
Office Max - 3 Sites	Ohio Power Company
Arboris, LLC - 4 Sites	Ohio Power Company
Stark State College - 3 Sites	Ohio Power Company
Office Max - 3 Sites	Ohio Power Company
Frontier-Portsmouth OH	Ohio Power Company
Water Treatment City of Wooster	Ohio Power Company
Allen Co. Sanitary Engr	Ohio Power Company
ATT - AEP - Aggregation	Ohio Power Company
West Muskingum - Middle School (100 Kimes Rd (079-978-002-0	Ohio Power Company
Frontier-Moundsville WV	Appalachian Power Company
Frontier-Wheeling WV (Park Pl)	Appalachian Power Company
Frontier-Wheeling WV (Chapline St)	Appalachian Power Company
The Mennel Milling Company - Dowagiac	Indiana Michigan Power Company
Virginia Castings	Appalachian Power Company
USPS Columbus Citygate	Ohio Power Company
AK Steel Coshocton	Ohio Power Company

AK Steel-Zanesville **Ohio Power Company** South Bend Water Works Indiana Michigan Power Company South Bend Water Works 2013 Indiana Michigan Power Company City of Fort Wayne 2013 Indiana Michigan Power Company Indiana Wesleyan University 2013 Indiana Michigan Power Company City of Fort Wayne 2013 Indiana Michigan Power Company **Ultimate Ethanol LLC 2013** Indiana Michigan Power Company Parkview Hospital North 2013 Indiana Michigan Power Company Indiana Wesleyan University 2013 Indiana Michigan Power Company **Interstate Cold Storage 2013** Indiana Michigan Power Company Atlas Foundry Company Inc 2013 Indiana Michigan Power Company

<u>Customer name</u>

City of Decatur 2013

City of Marion - SW Marion Municipal Utilities 2013

Indiana Wesleyan University 2013 Indiana Wesleyan University 2013

City of Marion - SW Marion Municipal Utilities 2013

Interstate Cold Storage 2013

City of Decatur 2013

Indiana Wesleyan University 2013

City of Fort Wayne 2013 Parkview Hospital 2013

Polar King 2013

City of Fort Wayne 2013

Accugear 2013

Lowes Home Centers Inc - Main Aggregate

KOHL 010110

Frontier Communication 12

KOHL 010110

Frontier Communication 6
Brotherhood Mutual Ins Co 1
Save A Lot Ft. Wayne DC
Bell Aquaculture LLC 2
Save A Lot Muncie DC
Frontier Communication 10

KOHL 010110

Frontier Communication 2
Frontier Communication 8
Bell Aquaculture LLC 1
Bell Aquaculture LLC 3
Frontier Communication 13
First Assembly of God

Brotherhood Mutual Ins Co 1
Frontier Communication 9
Frontier Communication 14
Frontier Communication 1

KOHL 010110

Frontier Communication 3 Frontier Communication 7 Frontier Communication 4

KOHL 010110

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Indiana Michigan Power Company Indiana Michigan Power Company Indiana Michigan Power Company Indiana Michigan Power Company Indiana Michigan Power Company Indiana Michigan Power Company Indiana Michigan Power Company Indiana Michigan Power Company **Indiana Michigan Power Company** Indiana Michigan Power Company Indiana Michigan Power Company **Indiana Michigan Power Company** Indiana Michigan Power Company
Customer name

Frontier Communication 11 Lutheran Hospital Of Indiana Bell Aquaculture LLC 5 Bell Aquaculture LLC 1 KOHL 010110

KOHL 010110

Cast Metals Technology

Mason CS - Pt Pleasant Jr/Sr HS DR 13-14 Mingo County Schools - Mingo Central DR 13-14 Boone County Schools - Van HS Whitesville DR 13-14

Mercer County Schools - Ceres Glenwood DR 13-14
Mercer CS - Lashmeet Montcalm Pikeview DR 13-14

Putnam CS - West Teays Elem Winfield HS DR 13-14 Putnam County Schools - Hurricane Middle DR 13-14

Wayne CS - Kellogg Elem Kenova Tolsia DR 13-14

Jackson CS - Ripley HS DR 13-14

Lincoln CS - Lincoln County HS DR 13-14

Fayette CS - Collins Mdle FIT Fville HS DR 13-14

Logan CS - Man K8 Omar Elem Tech Ctr DR 13-14

Jackson CS - Gilmore HJK Kenna Ravenswood DR 13-14

Mercer Cs - Princeton Elem Mdle VoTech DR 13-14

Mercer County Schools - Princeton Sr HS DR 13-14

Jackson CS - Gilmore HJK Kenna Ravenswood DR 13-14

Cabell CS - Career Tech Central Cty Elem DR 13-14

Glenwood Park Retirement Village DR 13-14

Fayette CS - Collins Mdle FIT Fville HS DR 13-14

Fayette CS - Midland New Rvr Oak Hill Valley DR 13

Logan CS - Man K8 Omar Elem Tech Ctr DR 13-14

Wyoming CS - Bville Career Ct Herndon Oceana 13-14

Mercer Cs - Princeton Elem Mdle VoTech DR 13-14

Central CHS Wheeling Charleston CHS DR 13-14

Logan CS - Man K8 Omar Elem Tech Ctr DR 13-14

Raleigh CS - Coal City Daniels IJHS DR 13-14

Jackson CS - Ripley Elem DR 13-14

United Dairy - Charleston DR 13-14

Jackson CS - Ripley Middle DR 13-14

Putnam CS - Career Center Central Office DR 13-14

Logan County Schools - Logan Middle DR 13-14

Mercer Cs - Princeton Elem Mdle VoTech DR 13-14

Raleigh CS - Coal City Daniels IJHS DR 13-14

Cabell CS - Barboursville Elem&Middle DR 13-14

Cabell County Schools - Martha Elementary DR 13-14

Raleigh County Schools - SSHS 1-2 DR 13-14

Cabell County Schools - Midland HS DR 13-14

Raleigh CS - Coal City Daniels IJHS DR 13-14

Wyoming CS - Bville Career Ct Herndon Oceana 13-14

Utility

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Boone CS - Brookview CTC Madison Mdle DR 13-14 Logan County Schools - Chapmanville HS DR 13-14 Jackson CS - Gilmore HJK Kenna Ravenswood DR 13-14 Raleigh County Schools - Park Middle DR 13-14 McDowell CS - Sandy River Southside Welch DR 13-14 Diocese of Wheeling Charleston -4- DR 13-14 Logan County Schools - Man HSDR 13-14 McDowell CS - Mount - River View DR 13-14 Mingo County Schools - Burch&Gilbert Md DR 13-14 Putnam CS - George Washington Hurricane DR 13-14 Mercer County Schools - Athens Bluefield DR 13-14 Jackson CS - Gilmore HJK Kenna Ravenswood DR 13-14 Fayette CS - Midland New Rvr Oak Hill Valley DR 13 Wayne County Schools - Spring Valley HS DR 13-14 McDowell CS - Sandy River Southside Welch DR 13-14 Raleigh County Schools - SSHS 1-2 DR 13-14 Putnam CS - George Washington Hurricane DR 13-14 Raleigh County Schools - Woodrow Wilson DR 13-14 Raleigh CS- Sophia Stanaford Stratton Voc DR 13-14 Logan County Schools - Logan HS DR 13-14 Lincoln CS - West Hamlin Elem DR 13-14 Wayne CS - Kellogg Elem Kenova Tolsia DR 13-14 Raleigh CS - BSJH Beckley Elem Bradley DR 13-14 Cabell County Schools - Milton Elem Mdle DR 13-14 Beckley Raleigh Convention Center DR 13-14 Fayette CS - Midland New Rvr Oak Hill Valley DR 13 Raleigh CS- Sophia Stanaford Stratton Voc DR 13-14 Raleigh CS- Sophia Stanaford Stratton Voc DR 13-14 Raleigh County Schools - Woodrow Wilson DR 13-14 Mercer County Schools - Ceres Glenwood DR 13-14 Cabell CS - Career Tech Central Cty Elem DR 13-14 Fayette CS - Collins Mdle FIT Fville HS DR 13-14 Cabell CS - Barboursville Elem&Middle DR 13-14 Mason County Schools - Wahama HS DR 13-14 Mercer CS - Lashmeet Montcalm Pikeview DR 13-14 Raleigh CS- Sophia Stanaford Stratton Voc DR 13-14 Mingo County Schools - Burch&Gilbert Md DR 13-14 Wayne County Schools - Wayne Elem DR 13-14 Greenbrier CS - Western Greenbrier Middle DR 13-14 McDowell County Schools - Bradshaw Elem DR 13-14 Raleigh County Schools - Independence HS DR 13-14 Putnam CS - Career Center Central Office DR 13-14 Jackson CS - Ripley HS DR 13-14 Beckley Raleigh Convention Center DR 13-14 Raleigh County Schools - Liberty HS 1 DR 13-14 Raleigh CS - BSJH Beckley Elem Bradley DR 13-14

Utility

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Page 23 of 31

Customer name

Raleigh CS - BSJH Beckley Elem Bradley DR 13-14 McDowell CS - Mount - River View DR 13-14 Wayne County Schools - Wayne HS DR 13-14 Greenbrier CS - Greenbrier West HS DR 13-14 McDowell CS - Mount - River View DR 13-14 Fayette CS - Midland New Rvr Oak Hill Valley DR 13 Putnam CS - Mtn View Elem Poca HS DR 13-14 McDowell County Schools - CTC Kimball DR 13-14 Mercer County Schools - Athens Bluefield DR 13-14 Putnam CS - West Teays Elem Winfield HS DR 13-14 Cabell County Schools - Alternative DR 13-14 Raleigh County Schools - Liberty HS 2 DR 13-14 Diocese of Wheeling Charleston -4- DR 13-14 Boone CS - Brookview CTC Madison Mdle DR 13-14 Boone County Schools - Scott HS DR 13-14 Wyoming CS - Bville Career Ct Herndon Oceana 13-14 Cabell County Schools - Milton Elem Mdle DR 13-14 Cabell County Schools - Huntington HS DR 13-14 Mercer CS - Lashmeet Montcalm Pikeview DR 13-14 Diocese of Wheeling Charleston -4- DR 13-14 Wyoming CS - East HS DR 13-14 Wyoming CS - Bville Career Ct Herndon Oceana 13-14 Mercer County Schools - Athens Bluefield DR 13-14 Cabell County Schools - Spring Hill Elem DR 13-14 McDowell CS - Sandy River Southside Welch DR 13-14 Lincoln CS - Duval PK8 Harts PK8 DR 13-14 Putnam CS - Mtn View Elem Poca HS DR 13-14 Wyoming CS - Westside HS DR 13-14 Boone CS - Brookview CTC Madison Mdle DR 13-14 Boone County Schools - Sherman Elem&HS DR 13-14 City of Huntington WV Civic Arena DR 13-14 Jackson CS - Gilmore HJK Kenna Ravenswood DR 13-14 Logan County Schools - Chapmanville Mdle DR 13-14 McDowell County Schools - CTC Kimball DR 13-14 Mason County Schools - Hannan HS Leon DR 13-14 Gallipolis City Schools DR 13-14 City of Columbus - Optimum - Xpedx DR 13-14 Fine Line Graphics DR 13-14 Village of New Albany 1 DR 13-14 **ODRC - PCI DR 13-14 Old Trail Printing Paulding Oakwood** Sam Dong Ohio DR 13-14 Interstate Gas Supply DR 13-14 Baesman Group DR 13-14 Vrable Healthcare Arlington Court DR 13-14

Plating Technology 1-2 DR 13-14

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Page 24 of 31

<u>Customer name</u> <u>Utility</u>

Village of New Albany SJ Lumber DR 13-14
Village of New Albany SJ Lumber DR 13-14

Motorists Mutual Insurance Company 1 DR 13-14

Gallipolis City Schools DR 13-14

Village of New Albany SJ Lumber DR 13-14

Plating Technology 1-2 DR 13-14 Gallipolis City Schools 3 DR 13-14

Dowsco PXP DR 13-14

City of Columbus - Fleet Management DR 13-14

Ohio Valley Veneer 1-2 DR 13-14 Nationwide Arena DR 13-14

City of Columbus - Optimum - Xpedx DR 13-14 City of Columbus - Optimum - Xpedx DR 13-14

ODRC - RCI 1 DR 13-14

City of Columbus - Building Services DR 13-14

Hidaka USA DR 13-14

Motorists Mutual Ins Optimum System DR 13-14

ODRC - RCI 2 DR 13-14 ODRC - FPRC DR 13-14 ODRC - RCI 3-4 DR 13-14 Burton Metals DR 13-14

Midwest Acoust-A-Fiber DR 13-14 Hopkins Printing DR 13-14

Spirit Services DR 13-14

Motorists Mutual Ins Optimum System DR 13-14

ODRC - CCI 1 DR 13-14 ODRC - HCF DR 13-14

Old Trail Printing 2-3 DR 13-14 Marketing Services Vectra 2 DR 13-14 Holzer Medical Center DR 13-14

Village of New Albany SJ Lumber DR 13-14

Fine Line Graphics DR 13-14
ODRC - CRC DR 13-14

Motorists Mutual Ins Optimum System DR 13-14

Bricker&Eckler LLC DR 13-14 Latham Limestone DR 13-14 Alexander Local Schools DR 13-14

City of Columbus - Civil Service Commission 13-14

Superior Hardwoods of Ohio DR 13-14

Plating Technology 3 DR 13-14

Dowsco PXP DR 13-14 ODRC - RCI 3-4 DR 13-14

Marketing Services Vectra 1 DR 13-14 Ohio Valley Veneer 1-2 DR 13-14 Old Trail Printing 2-3 DR 13-14 Cimbar Minerals LLC DR 13-14 Ohio Power Company
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Page 25 of 31

<u>Customer name</u> <u>Utility</u>

Case Farms DR 13-14
Harrison Central&Tusky Valley DR 13-14

Southeastern Ohio Regional Medical Center DR 13-14

Wayne Dalton / Overhead Door DR 13-14

Mercy Medical Center DR 13-14
Buehler Food Markets DR 13-14

Genesis HealthCare - Good Samaritan 2013

Belden Brick Company DR 13-14

Quick Tab II DR 13-14

Buehler Food Markets DR 13-14 Barium&Chemicals DR 13-14 Bowerston Shale 1&3 DR 13-14

United Dairy - Martins Ferry 1 DR 13-14

Eastern Local Edison Local Indian Creek DR 13-14

Old Trail Printing Paulding Oakwood Buckeye Local Schools DR 13-14

Paulding Exempted Village Schools DR 13-14 Community Memorial Hospital DR 13-14

ODRC - OCF DR 13-14

Eastern Local Edison Local Indian Creek DR 13-14 Van Wert County Hospital Assoc DR 13-14 Genesis HealthCare - Bethesda DR 13-14

Diebold 1 DR 13-14 Tekfor USA DR 13-14

Paulding Exempted Village Schools DR 13-14

ODRC - SOCF DR 13-14
Freeport Printing DR 13-14
Belden Brick Company DR 13-14
ARE Accessories DR 13-14
ODRC - ACI 1-2 DR 13-14
Arts in Stark DR 13-14
ODRC - NCI DR 13-14

Licking Memorial Hospital Newark Electro DR 13-14

ODRC - ACI 1-2 DR 13-14

ODRC - NCI DR 13-14

Eastern Local Edison Local Indian Creek DR 13-14

Heat Treating Technologies DR 13-14

Diebold 2 DR 13-14

Aultman Hospital 1 DR 13-14

Harrison Central&Tusky Valley DR 13-14

Hopedale Mining DR 13-14 Bowerston Shale 2 DR 13-14

Wayne Dalton / Overhead Door DR 13-14 Buehler Food Markets 3 DR 13-14

Steubenville City Schools 1 DR 13-14 Bowerston Shale 1&3 DR 13-14 Ohio Power Company
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Page 26 of 31

Customer name

Licking Memorial Hospital Newark Electro DR 13-14

Jefferson County JVS DR 13-14

United Dairy - Martins Ferry 2 DR 13-14 Steubenville City Schools 2 DR 13-14

Aultman Hospital 2 DR 13-14 Aultman Hospital 2 DR 13-14 Gabriel Logan DR 13-14

Steubenville City Schools 3 DR 13-14

Diebold 3 DR 13-14

Ohio County Schools - Warwood DR 13-14

Marshall CS - 6 Schools - DR 13-14 Wheeling Island Gaming DR 13-14

Ohio County Schools - Elm Grove DR 13-14

Wesbanco Arena DR 13-14

Marshall CS - Cameron Elem 2013

West Virginia Northern Community College DR 13-14 Ohio County Schools - Triadelphia Middle DR 13-14

Elmhurst House of Friendship DR 13-14

Central CHS Wheeling Charleston CHS DR 13-14 Childrens Home of Wheeling 1-2 DR 13-14 Elmhurst House of Friendship DR 13-14 Marshall CS - Cameron Elem 2013 Childrens Home of Wheeling 1-2 DR 13-14

Ziegenfelder Company DR 13-14

Ohio CS - Wheeling Middle Woodsdale DR 13-14

Cabelas DR 13-14

Wheeling Jesuit 2 DR 13-14
Wheeling Jesuit 1 DR 13-14
Wheeling Jesuit 3 DR 13-14
Marshall CS - 6 Schools - DR 13-14
W A Wilson&Sons DR 13-14
W A Wilson&Sons DR 13-14
Marshall CS - 6 Schools - DR 13-14
Wheeling Jesuit 4 DR 13-14

Ohio CS - Wheeling Middle Woodsdale DR 13-14

Marshall CS - Cameron Elem 2013

Marshall CS - Cameron Elem 2013

Peterson Rehabilitation Hospital DR 13-14

Marshall CS - 6 Schools - DR 13-14 Marshall CS - 6 Schools - DR 13-14 Marshall CS - Cameron Elem 2013

Diocese of Wheeling Charleston -4- DR 13-14

Marshall CS - 6 Schools - DR 13-14

West Virginia Northern Community College DR 13-14 Ohio County Schools - Wheeling Park HS DR 13-14 Boone County Schools - Sherman Elem&HS DR 13-14 Utility

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<u>Customer name</u>

Boone County Schools - Van HS Whitesville DR 13-14 Mingo CS - Lenore Riverside Tug Valley DR 13-14 Mingo CS - Lenore Riverside Tug Valley DR 13-14 Mingo County Schools - Burch&Gilbert Md DR 13-14 Lincoln CS - Duval PK8 Harts PK8 DR 13-14 Mingo CS - Lenore Riverside Tug Valley DR 13-14 Mason County Schools - Hannan HS Leon DR 13-14 Mason CS - Board of Ed Career Ctr DR 13-14 Mason CS - New Haven Pt Plsnt Roosevelt DR 13-14 Mason CS - Board of Ed Career Ctr DR 13-14 Mason CS - New Haven Pt Plsnt Roosevelt DR 13-14 Mason County Schools - Ashton Beale Elem DR 13-14 Wayne CS - Kellogg Elem Kenova Tolsia DR 13-14 Tri-County YMCA DR 13-14 City of Huntington WV City Hall DR 13-14 Mason CS - New Haven Pt Plsnt Roosevelt DR 13-14 Mason CS - New Haven Pt Plsnt Roosevelt DR 13-14 Mason County Schools - Ashton Beale Elem DR 13-14 Village of Byesville DR 13-14 Village of Byesville DR 13-14 Village of Byesville DR 13-14 Community Memorial Hospital DR 13-14 Village of Byesville DR 13-14 Marshall CS - Cameron Elem 2013 Wal-Mart Stores, Inc - AEP - Registration: 20 Wal-Mart Stores, Inc - AEP - Registration: 80 Target Corporation - AEP - Registration: 5 Wal-Mart Stores, Inc - AEP - Registration: 79 Target Corporation - AEP - Registration: 4 Wal-Mart Stores, Inc - AEP - Registration: 13 Wal-Mart Stores, Inc - AEP - Registration: 2 Wal-Mart Stores, Inc - AEP - Registration: 77 Wal-Mart Stores, Inc - AEP - Registration: 81 Wal-Mart Stores, Inc - AEP - Registration: 78 Wal-Mart Stores, Inc - AEP - Registration: 78 Wal-Mart Stores, Inc - AEP - Registration: 77 Wal-Mart Stores, Inc - AEP - Registration: 2 Wal-Mart Stores, Inc - AEP - Registration: 2 Wal-Mart Stores, Inc - AEP - Registration: 4 Wal-Mart Stores, Inc - AEP - Registration: 75 Wal-Mart Stores, Inc - AEP - Registration: 73 Wal-Mart Stores, Inc - AEP - Registration: 73 Wal-Mart Stores, Inc - AEP - Registration: 77 Wal-Mart Stores, Inc - AEP - Registration: 76 Wal-Mart Stores, Inc - AEP - Registration: 82 Wal-Mart Stores, Inc - AEP - Registration: 74

Utility

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Page 28 of 31

<u>Customer name</u>	<u>Utility</u>
Hollins University - AEP - Registration: 1	Appalachian Power Company
Clorox Services Company as agent to Clorox Products Manufactu	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 7	Appalachian Power Company
Marriott International, Inc - AEP - Registration: 1	Appalachian Power Company
Target Corporation - AEP - Registration: 3	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 17	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 14	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 17	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 10	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 1	Appalachian Power Company
Forest City Sustainable Resources, LLC - AEP - Registration: 1	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 5	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 12	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 3	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 11	Appalachian Power Company
Forest City Sustainable Resources, LLC - AEP - Registration: 1	Appalachian Power Company
Target Corporation - AEP - Registration: 6	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 17	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 1	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 1	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 15	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 1	Appalachian Power Company
Forest City Sustainable Resources, LLC - AEP - Registration: 1	Appalachian Power Company
Wal-Mart Stores, Inc - AEP - Registration: 9	Appalachian Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 44	Ohio Power Company
Macys Inc - AEP - Registration: 4	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 35	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 33	Ohio Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Target Corporation-1013791501	Ohio Power Company
- ,	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 59	Ohio Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Citicorp North America- Inc NE1022110200	Ohio Power Company
Target Corporation-1027489600	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 70	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 70	Ohio Power Company
Macys Inc - AEP - Registration: 4	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 65	, ,
	Ohio Power Company
Citicorp North America Inc	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 24	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 28	Ohio Power Company
· -	Ohio Power Company
Hanson Aggregates Davon LLC-NE1044178202	Ohio Power Company
Target Corporation-1051515791	Ohio Power Company

<u>Customer name</u>	Utility
Macys Inc - AEP - Registration: 1	Ohio Power Company
DFS Services LLC-1-1471072871	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 46	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 66	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 69	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 68	Ohio Power Company
Macys Inc - AEP - Registration: 4	Ohio Power Company
Macys Inc - AEP - Registration: 4	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 41	Ohio Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 25	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 62	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 40	Ohio Power Company
Macys Inc - AEP - Registration: 4	Ohio Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Target Corporation-1013791501	Ohio Power Company
Target Corporation-1079856481	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 66	Ohio Power Company
Target Corporation-1081349282	Ohio Power Company
Target Corporation-1085080422	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 38	Ohio Power Company
Macys Inc - AEP - Registration: 1	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 27	Ohio Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Home Depot USA, Inc-1-1546225337	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 27	Ohio Power Company
Staples, Inc - AEP - Registration: 1	Indiana Michigan Power Company
Macys Inc - AEP - Registration: 1	Ohio Power Company
Macys Inc - AEP - Registration: 4	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 45	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 18	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 60	Ohio Power Company
Mauser USA, Inc - AEP - Registration: 1	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 50	Ohio Power Company
Hanson Aggregates Davon LLC - AEP - Registration: 1	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 55	Ohio Power Company
Home Depot USA, Inc - AEP - Registration: 1	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 54	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 63	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 72	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 67	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 72	Ohio Power Company
Wal-Mart Stores, Inc -AEP - Registration: 37	Ohio Power Company
Wal-Mart Stores, Inc - AEP - Registration: 51	Ohio Power Company
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Page 30 of 31

Utility Customer name Wal-Mart Stores, Inc - AEP - Registration: 21 **Ohio Power Company** Wal-Mart Stores, Inc - AEP - Registration: 19 Ohio Power Company Home Depot USA, Inc - AEP - Registration: 1 **Ohio Power Company** Home Depot USA, Inc - AEP - Registration: 1 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 48 **Ohio Power Company** Wal-Mart Stores, Inc - AEP - Registration: 69 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 43 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 64 **Ohio Power Company** Wal-Mart Stores, Inc - AEP - Registration: 47 **Ohio Power Company** Macys Inc - AEP - Registration: 4 **Ohio Power Company** Wal-Mart Stores, Inc - AEP - Registration: 39 **Ohio Power Company** Wal-Mart Stores, Inc - AEP - Registration: 52 **Ohio Power Company** Wal-Mart Stores, Inc - AEP - Registration: 36 **Ohio Power Company** Wal-Mart Stores, Inc - AEP - Registration: 32 **Ohio Power Company** Target Corporation - AEP - Registration: 1 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 42 **Ohio Power Company** Wal-Mart Stores, Inc - AEP - Registration: 31 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 67 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 68 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 49 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 61 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 27 **Ohio Power Company** Rexam HealthCare Packaging, Inc - AEP - Registration: 2 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 71 Ohio Power Company Wal-Mart Stores, Inc - AEP - Registration: 8 Appalachian Power Company Target Corporation - AEP - Registration: 2 Appalachian Power Company Wal-Mart Stores, Inc - AEP - Registration: 6 Appalachian Power Company PETCO Animal Supplies Stores, Inc - AEP - Registration: 1 Appalachian Power Company PETCO Animal Supplies Stores, Inc - AEP - Registration: 1 Appalachian Power Company Macys Inc - AEP -Registration: 5 Appalachian Power Company PETCO Animal Supplies Stores, Inc - AEP - Registration: 1 Appalachian Power Company Macys Inc - AEP -Registration: 5 **Appalachian Power Company** PETCO Animal Supplies Stores, Inc - AEP - Registration: 1 Appalachian Power Company Macys Inc - AEP -Registration: 5 **Appalachian Power Company** Hanson Aggregates Davon LLC-NE1044178202 **Ohio Power Company** Hanson Aggregates Davon LLC-NE1044178202 **Ohio Power Company** Hanson Aggregates Davon LLC-NE1044178202 Ohio Power Company **Ohio Power Company** Hanson Aggregates Davon LLC-NE1044178202 Hanson Aggregates Davon LLC-NE1044178202 Ohio Power Company Hanson Aggregates Davon LLC-NE1044178202 **Ohio Power Company** Hanson Aggregates Davon LLC-NE1044178202 **Ohio Power Company** Hanson Aggregates Davon LLC-NE1044178202 Ohio Power Company Hanson Aggregates Davon LLC-NE1044178202 **Ohio Power Company** Indiana Michigan Power Company Staples, Inc - AEP - Registration: 1 Staples, Inc - AEP - Registration: 1 Indiana Michigan Power Company Indiana Michigan Power Company Staples, Inc - AEP - Registration: 1

Customer name Utility Staples, Inc - AEP - Registration: 1 Indiana Michigan Power Company PETCO Animal Supplies Stores, Inc - AEP - Registration: 1 Ohio Power Company Staples, Inc-1-1605770051 **Ohio Power Company** Staples, Inc-1-1605770051 **Ohio Power Company** PETCO Animal Supplies Stores, Inc - AEP - Registration: 1 **Ohio Power Company** Big Lots - 0061 **Appalachian Power Company** Big Lots - 0061 **Appalachian Power Company** Big Lots - 0061 **Appalachian Power Company** Big Lots - 0061 Appalachian Power Company Big Lots - 0061 **Appalachian Power Company** Eastman Chemical - Kingsport #N/A Air Products - Kingsport #N/A Linde **Ohio Power Company** Air Products - Moundsville Appalachian Power Company

Bristol Virginia Utilities Board Water Filtration Plant 2013 **Appalachian Power Company** AMCOR Ridgid Plastics USA 2013 Appalachian Power Company Magnolia Manufacturing Co Inc 2013 Appalachian Power Company Jefferson Yarns Inc. **Appalachian Power Company** W R MEADOWS INC Appalachian Power Company Parkdale America Appalachian Power Company PCC-Huntington Alloys 2013 **Appalachian Power Company** AEP - 1 Riverside Plaza **Ohio Power Company** AEP - 1 Riverside Plaza **Ohio Power Company**

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KPSC Case No. 2013-00475 Commission Staff's Second Data Requests Dated March 7, 2014 Item No. 23 Page 1 of 1

Kentucky Power Company

REQUEST

Provide by month for 2013 the number of customers participating and renewable energy certificates purchased in Kentucky Power's Rider G.P.O. (Green Pricing Option Rider) tariff.

RESPONSE

No customers participated in the Green Pricing Option Rider in 2013, and there were no renewable energy certificates purchased.

WITNESS: Ranie K Wohnhas