COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

AN EXAMINATION OF THE APPLICATION OF THE)	
FUEL ADJUSTMENT CLAUSE OF KENTUCKY)	
UTILITIES COMPANY FROM MAY 1, 2015)	2016-00003
THROUGH OCTOBER 31, 2015)	

RESPONSE OF KENTUCKY UTILITIES COMPANY TO INFORMATION REQUESTED IN COMMISSION'S POST HEARING DATA REQUEST DATED APRIL 7, 2016

FILED: APRIL 21, 2016

VERIFICATION

COMMONWEALTH OF KENTUCKY)	
)	SS:
COUNTY OF JEFFERSON)	

The undersigned, **Mike Dotson**, being duly sworn, deposes and says that he is Manager – LG&E and KU Fuels for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

Mule Dotson Mike Dotson

Subscribed and sworn to before me, a Notary Public in and before said County

and State, this <u>11st</u> day of <u>April</u> 2016.

JudySchooler (SEAL)

Notary Public

My Commission Expires: JUDY SCHOOLER Notary Public, State at Large, KY My commission expires July 11, 2018 Notary ID # 512743

VERIFICATION

COMMONWEALTH OF KENTUCKY)	
)	SS:
COUNTY OF JEFFERSON)	

The undersigned, **Charles R. Schram**, being duly sworn, deposes and says that he is Director — Energy Planning, Analysis and Forecast for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

Mm/r KAchn-arles R. Schram

Subscribed and sworn to before me, a Notary Public in and before said County

and State, this $\frac{2/4}{2}$ day of Appl 2016.

JudySchooler (SEAL)

Notary Public

My Commission Expires:

JUDY SCHOOLER Notary Public, State at Large, KY My commission expires July 11, 2018 Notary ID # 512743

VERIFICATION

COMMONWEALTH OF KENTUCKY)) SS: **COUNTY OF JEFFERSON**)

The undersigned, Eileen L. Saunders, being duly sworn, deposes and says that she is Director, Generation Services for LG&E and KU Services Company, and that she has personal knowledge of the matters set forth in the responses for which she is identified as the witness, and the answers contained therein are true and correct to the best of her information, knowledge and belief.

Sauders Eileen L. Saunders

Subscribed and sworn to before me, a Notary Public in and before said County

and State, this <u>use</u> day of <u>April</u> 2016.

Judy Schooler (SEAL)

Notary Public

My Commission Expires: JUDY SCHOOLER Notary Public, State at Large, KY My commission expires July 11, 2018 Notary ID # 512743

Response to Information Requested in Commission's Post Hearing Data Request Dated April 7, 2016

Case No. 2016-00003

Question No. 1

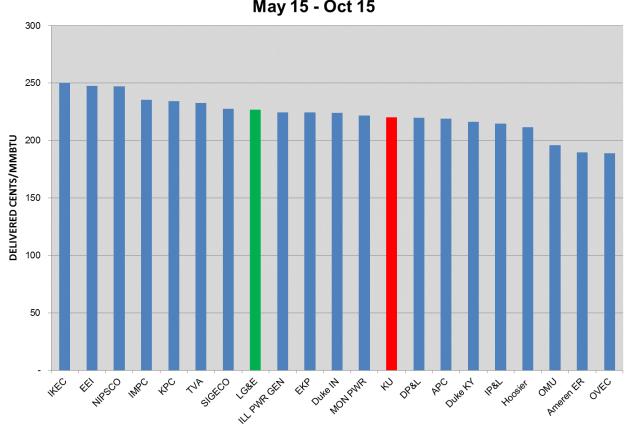
Witness: Mike Dotson

- Q-1. Provide the coal price comparison against other utilities in one chart, without regard to the SO2 content. Also include the raw data in an Excel spreadsheet.
- A-1. As requested, the information originally provided in Question No. 9 from ABB Inc. Ventyx Velocity database has now been compiled without regard to the SO₂ content. In re-running the database on April 12, 2016, to compile this report, the Kentucky Power Company data now includes some deliveries from AEP's Mitchell Station, which were not reflected in the previous run.

Attachment to Response to Question No. 1 Page 1 of 6 Dotson

Utilities in Comparison List		
UTILITY	ABBREVIATED	PLANT LOCATIONS
AmerenEnergy Generating Co	Ameren ER	Illinois
Illinois Power Generating Co	ILL PWR GEN	Illinois
Appalachian Power Co	APC	Virginia, West Virginia
Dayton Power & Light Co (The)	DP&L	Ohio
Duke Energy Indiana	Duke IN	Indiana
Duke Energy Kentucky	Duke KY	Ohio
East Kentucky Power Coop	EKP	Kentucky
Electric Energy Inc	EEI	Illinois
Hoosier Energy Rural Electric Coop Inc	Hoosier	Indiana
Indiana Kentucky Electric Corp	IKEC	Indiana
Indiana Michigan Power Co	IMPC	Indiana
Indianapolis Power & Light	IP&L	Indiana
Kentucky Power Co	KPC	Kentucky
Kentucky Utilities Co	KU	Kentucky
Louisville Gas & Electric Co	LG&E	Kentucky
Monongahela Power Co	MON PWR	West Virginia
Northern Indiana Public Service Co	NIPSCO	Indiana
Ohio Valley Electric Corp	OVEC	Ohio
Owensboro Municipal Utilities	OMU	Kentucky
Southern Indiana Gas & Electric Co	SIGECO	Indiana
Tennessee Valley Authority	TVA	Alabama, Kentucky, Tennessee

Attachment to Response to Question No. 1 Page 2 of 6 Dotson



Utility Overall Price Comparison May 15 - Oct 15

Attachment to Response to Question No. 1 Page 3 of 6 Dotson

		Quantity (000s		lbsSO2/		Delivered Fuel Price Cents/mm
Plant Operator Name	Reported Source Name	tons)	Btu/Ib	mmBtu	Ash %	Btu
AmerenEnergy Resources Generat AmerenEnergy Resources Generat		818 848	8800 8808	0.44 0.54	4.52 5.04	192.27 186.93
Amerenenegy Resources General	IARCH	1,666	8804	0.34	4.79	189.55
	L					
Appalachian Power Co	RESOURCE FUELS	142	12492	4.80	9.64	210.84
Appalachian Power Co	PEABODY COAL TRADE PATRIOT COAL SALES	202 522	12298 11985	1.13 1.39	12.85 12.13	229.63 249.70
Appalachian Power Co Appalachian Power Co	MERCURIA ENERGY TRADING INC	522	12198	1.39	12.13	249.70 198.72
Appalachian Power Co	MAPLE COAL CO	117	12177	1.37	12.75	274.16
Appalachian Power Co	KOCH	39	12022	1.59	10.08	286.08
Appalachian Power Co	EDF TRADING CONSOLIDATION COAL CO	37	12045	1.56	12.58	274.37 227.76
Appalachian Power Co Appalachian Power Co	AMERICAN ENERGY	868 1,793	12675 12515	6.03 6.51	9.46 9.52	191.48
Appalachian Power Co	ALPHA COAL	891	12317	1.96	11.22	237.64
		4,676	12417	4.42	10.41	219.11
Deutee Deures & Light Co. (The)		903	44500	E 40	0.42	222.96
Dayton Power & Light Co (The) Dayton Power & Light Co (The)	WILLIAMSON ENERGY WHITE OAK RESOURCES LLC	903 14	11502 11757	5.12 4.12	8.13 8.08	203.68
Dayton Power & Light Co (The)	VITOL	315	11705	4.11	8.43	201.97
Dayton Power & Light Co (The)	КОСН	23	11518	1.77	14.43	175.90
Dayton Power & Light Co (The)	FORESIGHT COAL SALES	529	11518	5.12	8.12	213.68
Dayton Power & Light Co (The) Dayton Power & Light Co (The)	AMERICAN COAL ALPHA COAL	540 299	11883 12965	4.08 4.22	8.82 8.40	223.45 228.89
Dayton Power & Light Co (The)	ALLIANCE COAL	364	11541	5.34	8.35	226.97
	[2,988	11748	4.73	8.39	219.92
			(1505			000 50
Duke Energy Indiana Duke Energy Indiana	SUNRISE COAL SALES SOLAR SOURCES	24 533	11525 11282	4.96 4.58	8.20 8.27	260.50 196.66
Duke Energy Indiana	PEABODY COAL TRADE	16	11262	1.34	17.08	183.70
Duke Energy Indiana	PEABODY COAL SALES	2,098	11072	4.69	9.33	200.57
Duke Energy Indiana	PATRIOT COAL SALES	36	12013	1.23	13.49	217.76
Duke Energy Indiana Duke Energy Indiana	MODELED - SOLAR SOURCES FOSSIL COALLLC	495 22	11281 11325	4.58 1.51	8.27 14.80	196.65 188.60
Duke Energy Indiana	FORESIGHT COAL SALES	80	10816	6.46	7.27	235.98
Duke Energy Indiana	DUKE ENERGY TRANSFER TERMINA	321	11062	5.66	9.85	189.83
Duke Energy Indiana	BLACK BEAUTY	1,655	11500	6.15	8.64	225.61
Duke Energy Indiana	ALLIANCE COAL	682 5,962	<u>11134</u> 11240	2.84 4.90	9.68 9.06	349.24 224.01
		0,002	11240	4.00	5.00	224.01
Duke Energy Kentucky	WHITE OAK RESOURCES LLC	3	11739	4.00	7.90	162.58
Duke Energy Kentucky	TRAFIGURA	109	11471	5.28	8.19	217.48
Duke Energy Kentucky Duke Energy Kentucky	RIVER VIEW COAL PEABODY COAL TRADE	530 14	11856 12069	4.95 3.27	8.91 13.96	225.47 179.08
Duke Energy Kentucky	NOBLE AMERICAS GAS & POWER	97	11909	1.57	11.05	185.56
Duke Energy Kentucky	ARMSTRONG COAL	127	11550	4.82	8.94	219.31
Duke Energy Kentucky	AMERICAN COAL	2	12027	4.19	8.60	169.99
Duke Energy Kentucky	ALPHA COAL	63 946	12972 11854	4.46 4.56	8.38 9.09	193.54 216.30
	L	540	11054	4.50	5.05	210.30
East Kentucky Power Coop	WHITE OAK RESOURCES LLC	81	11688	4.19	8.47	247.41
East Kentucky Power Coop	WHITE COUNTY COAL	187	11519	5.29	8.17	263.94
East Kentucky Power Coop East Kentucky Power Coop	RIVER VIEW COAL RIVER TRADING	101 84	11484 11331	5.28 3.65	8.20 15.41	233.13 194.40
East Kentucky Power Coop	PEABODY COAL SALES	177	11331	5.73	9.00	236.73
East Kentucky Power Coop	OXFORD MINING CO	395	11276	6.88	16.13	204.13
East Kentucky Power Coop	MR COAL MARKETING	3	12317	1.27	9.10	227.60
East Kentucky Power Coop	JAMIESON CONSTRUCTION CO FORESIGHT COAL SALES	6	13645	3.25	6.20	270.80
East Kentucky Power Coop East Kentucky Power Coop	BOWIE	385 144	11037 11763	5.79 2.75	7.78 11.15	223.34 225.82
East Kentucky Power Coop	BLACKHAWK MINING LLC	12	12655	3.49	9.30	248.40
East Kentucky Power Coop	B & W RESOURCES	83	12454	2.36	10.06	298.40
East Kentucky Power Coop		264	10946	8.45	18.04	185.93
East Kentucky Power Coop	ALLIANCE COAL	154 2,077	12620 11422	4.51 5.64	9.11 11.60	226.61 224.31
		2,011	11722	0.04	11.00	224.01

Attachment to Response to Question No. 1 Page 4 of 6 Dotson

Delivered Fuel Price lbsSO2/ Quantity (000s Cents/mm Plant Operator Name Reported Source Name tons) Btu/Ib mmBtu Ash% Btu NORTH ANTELOPE Electric Energy Inc. 192 8705 0.45 4.64 236.75 BLACK THUNDER WEST Electric Energy Inc 8716 0.73 4.78 225.00 62 BLACK THUNDER ARCH Electric Energy Inc 112 8716 0.52 4.67 225.00 Electric Energy Inc BELLAYRE 286 8670 0.57 4.36 228.06 Electric Energy Inc ANTELOPE 1,097 8707 0.53 5.38 258.15 1,749 0.54 5.07 247.60 8702 Hoosier Energy Rural Electric Coop SUNRISE COAL SALES 297 11502 5.47 8.80 222.14 Hoosier Energy Rural Electric Coop PEABODY COAL SALES 944 11110 5.63 9.62 208.33 1,240 11204 5.59 9.43 211.72 Illinois Power Generating Co PEABODY COAL SALES 1,089 8800 0.44 4.52 215.50 Illinois Power Generating Co BLACK THUNDER WEST 276 8897 0.56 5.22 239.17 Illinois Power Generating Co BLACK THUNDER ARCH 526 8905 0.52 5.15 239.17 Illinois Power Generating Co BELLAYRE 318 8800 0.56 4.35 215.50 ANTEL OPE Illinois Power Generating Co 751 8898 0.54 5 16 226.00 224.63 2,959 8852 0.50 4.84 Indiana Kentucky Electric Corp WESTERN KENTUCKY MINERALS 11109 5.04 9.29 222.89 69 TRAFIGURA Indiana Kentucky Electric Corp 162 11500 5.28 8.22 226.10 Indiana Kentucky Electric Corp RESOURCE FUELS 11490 5.28 8.21 250.74 448 NOBLE AMERICAS GAS & POWER Indiana Kentucky Electric Corp 11547 210.33 71 5.26 8.14 KNIGHTHAWK Indiana Kentucky Electric Corp 506 11179 5.10 8.62 267.65 1,256 11348 250.41 5.19 8.43 Indiana Michigan Power Co RIVER TRADING 5 12251 8.20 286.40 1.14 PEERLESS MINERALS LLC Indiana Michigan Power Co 46 12422 1.21 12.92 267.50 Indiana Michigan Power Co PEABODY COAL SALES 1,951 8716 224.82 0.48 4.57 Indiana Michigan Power Co PATRIOT COAL SALES 492 8755 0.46 4.81 224.63 Indiana Michigan Power Co NOBLE ENERGY MARKETING 7 11984 1.65 11.30 222.60 Indiana Michigan Power Co NOBLE AMERICAS GAS & POWER 54 11962 1.55 11.12 225.87 Indiana Michigan Power Co ARCH 748 8944 0.59 5.07 229.34 Indiana Michigan Power Co ALPHA COAL 12090 1.37 289 01 380 12 15 235.21 3.684 9220 0.62 5.70 Indianapolis Power & Light TRIAD 515 11522 205.71 5.72 8.25 SUNRISE COAL SALES Indianapolis Power & Light 1.099 11549 5.18 8.12 223.16 Indianapolis Power & Light COALSALES LLC 11396 5.70 7.89 212.69 166 Indianapolis Power & Light COAL SALES 11476 205.44 929 5.79 7.70 Indianapolis Power & Light ALLIANCE COAL 132 11546 2.78 6.95 243.06 Indianapolis Power & Light ALLIANCE 18 11471 2.25 6.66 245.88 Indianapolis Power & Light 245.50 13 11475 2.20 6.50 11511 2,872 5.36 7.93 214.87 Kentucky Power Co SABBATICAL INC 10 11764 1.63 11.75 191.70 Kentucky Power Co PRODUCERS COAL INC 10 12155 1.43 10.00 262.50 Kentucky Power Co PATRIOT COAL SALES 67 12095 1.31 13.12 200.79 NOBLE ENERGY MARKETING Kentucky Power Co 72 11915 1.57 12.10 212.08 NOBLE AMERICAS GAS & POWER 54 Kentucky Power Co 11908 1.57 11.04 196.37 Kentucky Power Co MR COAL MARKETING 21 12263 11.30 1.58 213 10 KOLMAR AMERICAS INC 27 Kentucky Power Co 11956 1.63 12.94 208.08 Kentucky Power Co косн 12070 11.26 238.00 183 1.59 EMBER ENERGY Kentucky Power Co 11933 1.51 197.80 9.80 5 Kentucky Power Co EDF TRADING 12000 269.80 9 1.72 9.80 Kentucky Power Co CONSOLIDATION COAL CO 431 12467 6.57 9.56 215.95 Kentucky Power Co BLACKHAWK MINING LLC 21 12702 1.43 7.20 207.80 Kentucky Power Co BEECH FORK PROCESSING 82 12115 1.75 9.28 203.50 Kentucky Power Co ALPHA COAL 494 12065 1 37 11.92 270.01 1,485 12181 2.96 10.95 234.30

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Plant Operator Name	Reported Source Name	Quantity (000s tons)	Btu/lb	lbsSO2/ mmBtu	Ash %	Delivered Fuel Price Cents/mm Btu
Kentucky Utilities Co	WHITE OAK RESOURCES LLC	224	11660	4.15	8.24	196.14
Kentucky Utilities Co	WESTERN KENTUCKY MINERALS	3	8724	2.68	26.20	137.10
Kentucky Utilities Co	TRIAD	341	11458	6.33	8.48	262.48
Kentucky Utilities Co	THOROUGHFARE MINING LLC	43	11856	3.90	8.87	229.17
Kentucky Utilities Co	RIVER TRADING	22	10454	3.33	23.71	202.15
Kentucky Utilities Co	RHINO ENERGY	313	11269	4.60	8.94	223.94
Kentucky Utilities Co	FORESIGHT COAL SALES	195	11420	5.10	8.01	210.97
Kentucky Utilities Co	COALSALES LLC	515	11193	5.82	8.52	202.43
Kentucky Utilities Co	BOWIE	55	11989	3.53	12.32	275.30
Kentucky Utilities Co	ARMSTRONG COAL CO	39	11455	3.60	8.28	229.11
Kentucky Utilities Co	ARMSTRONG COAL	1,252	11178	5.52	11.03	208.50
Kentucky Utilities Co	ARCH COAL SALES	14	9436	1.58	26.13	211.49
Kentucky Utilities Co	ARCH	25	9265	1.62	26.41	212.60
Kentucky Utilities Co	ALLIANCE COAL	466	11505	4.18	7.56	245.87
		3,508	11300	5.14	9.65	220.26
Louisville Gas & Electric Co	WHITE OAK RESOURCES LLC	234	11660	4.20	8.32	190.01
Louisville Gas & Electric Co	RIVER TRADING	2	10039	2.45	25.10	211.00
Louisville Gas & Electric Co	RHINO ENERGY	62	11289	4.67	8.94	221.84
Louisville Gas & Electric Co	PEABODY COAL TRADE	13	10210	2.27	24.87	147.06
Louisville Gas & Electric Co	FORESIGHT COAL SALES	304	11439	5.05	7.91	208.72
Louisville Gas & Electric Co	COALSALES LLC	33	11089	5.75	8.96	196.93
Louisville Gas & Electric Co	ARMSTRONG COAL	547	11170	5.64	11.01	206.27
Louisville Gas & Electric Co	ARCH COAL SALES	32	8927	0.62	6.55	230.25
Louisville Gas & Electric Co	ARCH	288	8915	0.65	5.44	230.25
Louisville Gas & Electric Co	ALLIANCE COAL	2,477	11870	5.61	9.16	236.89
		3,991	11470	5.06	9.03	226.65
Monongahela Power Co	TUNNEL RIDGE LLC	143	12630	4.54	9.00	368.56
Monongahela Power Co	MEPCO OPERATIONS	735	12047	3.44	14.74	219.45
Monongahela Power Co	FIRSTENERGY	206	12566	6.94	9.35	179.11
Monongahela Power Co	CONSOL	2,582	12732	5.43	10.74	227.96
Monongahela Power Co	AMERICAN ENERGY	1,087	12505	7.27	9.17	200.85
Monongahela Power Co	ALLIANCE COAL	587	12873	4.52	8.45	214.87
3		5,341	12598	5.46	10.62	221.78
		10		=		
Northern Indiana Public Service Co		40	11478	5.02	8.97	221.65
Northern Indiana Public Service Co		436	8792	0.45	4.56	240.60
Northern Indiana Public Service Co		355	11381	5.76	9.03	234.75
Northern Indiana Public Service Co Northern Indiana Public Service Co		137 125	10870	6.32 3.87	7.23	185.36 414.48
Northern Indiana Public Service Co Northern Indiana Public Service Co		125	12987	3.87 5.38	7.72	414.48 248.46
Northern Indiana Public Service Co Northern Indiana Public Service Co		747 793	11036 8829	5.38 0.74	8.68 5.14	248.46 232.99
Norment Inulana Public Service CO		2,634	10137	0.74 3.19	5.14 6.86	232.99 247.27
		_,			0.00	
Ohio Valley Electric Corp	AMERICAN ENERGY	898	12446	7.46	9.33	188.50
Ohio Valley Electric Corp		186	12519	7.30	8.90	191.20
		1,083	12458	7.44	9.26	188.97

Attachment to Response to Question No. 1 Page 6 of 6 Dotson

						Delivered Fuel Price
Plant Operator Name	Reported Source Name	Quantity (000s tons)	Btu/lb	lbsSO2/ mmBtu	Ash %	Cents/mm Btu
Owensboro Municipal Utilities	YAGER MATERIALS	2	11214		ASI % 9.10	
Owensboro Municipal Utilities	WEST KY MINERALS	202	10936	6.80	9.10	124.00
Owensboro Municipal Utilities	ROCKPORT RIVER TERMINAL	4	10350	3.09	9.17	124.00
Owensboro Municipal Utilities	PEABODY COAL SALES	145	10452	6.77	9.17 10.75	124.00
Owensboro Municipal Utilities	KENAMERICA RESOURCES	38	11666	5.07	6.55	194.75
Owensboro Municipal Utilities	KEN AMERICAN	17	11737	4.87	8.10	195.00
Owensboro Municipal Utilities	ARMSTRONG COAL	252	11099	5.75	10.98	196.07
		658	11071	6.22	10.60	196.10
	L					
Southern Indiana Gas & Electric C	O SUNRISE COAL SALES	982	11503	5.56	8.40	229.30
Southern Indiana Gas & Electric C	O ALLIANCE COAL	134	11756	4.78	6.41	216.68
		1,116	11534	5.46	8.16	227.75
Tennessee Valley Authority	TRAFIGURA	21	12125	1.55	12.35	210.81
Tennessee Valley Authority	SOUTHERN COAL SALES CORP	11	12256	1.47	12.40	251.00
Tennessee Valley Authority	RHINO ENERGY	12	12454	1.46	11.10	286.40
Tennessee Valley Authority	PEVLER	30	12273	1.57	7.77	273.84
Tennessee Valley Authority	PEABODY COAL SALES	2,673	10803	3.11	7.11	228.59
Tennessee Valley Authority	PATRIOT COAL SALES	177	12202	1.55	12.27	249.71
Tennessee Valley Authority	NOBLE ENERGY MARKETING	140	11903	1.64	10.33	232.85
Tennessee Valley Authority	MR COAL MARKETING & TRADINGLL	23	12494	1.92	11.10	242.20
Tennessee Valley Authority	MR COAL MARKETING	139	12312	1.92	12.11	251.59
Tennessee Valley Authority	KOPPER GLO	12	13043	2.02	7.50	258.50
Tennessee Valley Authority	KENAMERICA RESOURCES	682	11820	4.89	7.99	216.93
Tennessee Valley Authority	FORESIGHT COAL SALES	318	11511	5.08	8.11	199.58
Tennessee Valley Authority	BLUE DIAMOND MINING LLC	70	13113	1.58	7.07	263.85
Tennessee Valley Authority	B & W RESOURCES	23	12498	1.74	9.70	257.80
Tennessee Valley Authority	ARMSTRONG COAL	1,080	11697	4.77	8.85	238.11
Tennessee Valley Authority	ARCH COAL SALES	1,112	8875	0.67	5.25	192.63
Tennessee Valley Authority	ARCH	3,388	8976	0.69	5.26	202.37
Tennessee Valley Authority	ALPHA COAL	59	12432	1.52	11.18	256.19
Tennessee Valley Authority	ALLIANCE COAL	2,390	11815	4.31	8.19	266.36
Tennessee Valley Authority	ALLIANCE COAL	1,050	12307	4.99	7.40	271.60
	l	13,409	10701	2.85	7.11	232.60

Response to Information Requested in Commission's Post Hearing Data Request Dated April 7, 2016

Case No. 2016-00003

Question No. 2

Witness: Charles R. Schram

- Q-2. In connection with the natural gas prices that are contained in the attachment to the Company's response to Item 4(b) to the Commission Staff's Third Set of Data Requests, provide a breakdown of the natural gas price and the cost of delivery at the Haefling generation station for each month during the period under review.
- A-2. Natural gas for KU's Haefling units is supplied by Columbia Gas of Kentucky. The tariff rate does not differentiate between the natural gas price and the cost of delivery.

Response to Information Requested in Commission's Post Hearing Data Request Dated April 7, 2016

Case No. 2016-00003

Question No. 3

Witness: Charles R. Schram

Q-3. Refer to the Company's response to Staff's Third Request for Information, Item 4(e).

(a) For the period under review, provide the highest generating cost actually incurred in each month in which the Haefling unit operated in dollars per MWh.

(b) Using that dollar per MWh, provide the effect it would have on the amount of power purchases excluded from recovery during those months if that \$/MWh had been used rather than what the companies used?

(c) Provide this information in Excel spreadsheet and hard-copy format.

			Monthly	Monthly				
Month of	Highest		Gross	Aux	Monthly	Monthly	Gross	Net Gen
Haefling	Cost	Operating	Gen	Power	Net Gen	Gas Cost	Gen Cost	Cost
Operation	Unit	Hours	(MWh)	(MWh)	(MWh)	(\$)	(\$/MWh)	(\$/MWh)
May 2015	Haefling	12.03	142	(12)	130	23,173.41	163.19	178.23
July 2015	Haefling	0.71	7	(18)	(11)	966.64	138.09	(87.88)

A-3. (a) See table below:

The Net Gen Cost in the table above is computed as the ratio of Monthly Gas Cost and Monthly Net Gen. Because Monthly Aux Power in months with limited generation from the Haefling units can exceed Monthly Gross Gen, Monthly Net Gen and the Net Gen Cost can be negative. For months where this is true, the Gross Gen Cost (computed as the ratio of Monthly Gas Cost and Monthly Gross Gen) provides a better estimate of actual generation cost.

(b) The gross generation costs provided in response to part 3a are higher than the cost of each of the Company's power purchases. Therefore, the use of these generating costs has no impact on the amount of power purchases excluded from FAC recovery.

(c) See attached. Power purchase exclusions were computed using the net generation cost in May 2015 and the gross generation cost in July 2015.

Adjustments for Purchases Above KU/LGE Highest Priced Units (May 2015)

Components of Highest Priced Units*:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(6)=(3)+(4)+(5)	(7)	(8)=(6)+(7)
FULL		FUEL COST		SCRUBBER	SO2	SCR	NOx	Hg	DISPATCH	Maint	TOTAL
UNIT NAME	LOAD HR			CONSUME	ADDER	CONSUME	ADDER	CONSUME	COST	V 0&M	PRICE
	(BTU/KWH)	(c/MBTU)	(\$/MWH)	(\$/MWH)	(S/MWH)	(\$/MWH)	(\$/MWH)	(\$/MWH)	(\$/MWH)	(S/MWH)	(\$/MWH)
ZORN 1	18,676	610.28	59.81	0.00	0.00	0.00	0.00	0.00	59.81	13.30	73.11
HAEFLING	17.000	875.00	178.23	0.00	0.00	0.00	0.00	0.00	178.23	10.00	188.23

*In the table, the formulas used to compute Dispatch Cost have been replaced with actual generation cost estimates. The inputs to these formulas and other values not used in the calculation of power purchase exclusions have been struck.

Purchases Above LGE's Highest Priced Unit (ZORN 1):

					Excluded Amou	unt Prior to FO			Additional		
	Purchase		MWh	Cost	Calcul	ation	Excluded in FO		Exclusion	ZORN 1	
MM/DD/YY Hr	From	Cost \$	Purch	\$/MWh	\$/MWh	\$	Calculation?		For FAC	Available ?	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$		Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	\$	-	Yes	
							YES	Ś	-	Yes	
							YES	\$	-	Yes	
					LG&E Total \$	-	\$0.00	\$	-	-	

'urchases Above KU'	s Highest Priced Uni	t (HAEFLING):							
					Excluded Amou	unt Prior to FO		Additional	
	Purchase		MWh	Cost	Calcul	lation	Excluded in FO	Exclusion	HAEFLING
MM/DD/YY Hr	From	<u>Cost \$</u>	Purch	\$/MWh	\$/MWh	\$	Calculation?	For FAC	Available ?
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$	Yes
							Yes	\$ -	Yes
							Yes	\$ -0	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ -	Yes
							Yes	\$ +	Yes
							Yes	\$ -	Yes
					-		Yes	\$ ÷	Yes
					KU Total 💲	-	\$0.00	\$ -	

Adjustments for Purchases Above KU/LGE Highest Priced Units (July 2015)

Cost Components of Highest Priced Units*:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(6)=(3)+(4)+(5)	(7)	(8)=(6)+(7)	
	FULL FUEL COST		COST	SCRUBBER SO2		SCR	NOx	Hg	DISPATCH	Maint	TOTAL	
UNIT NAME	LOAD HR			CONSUME	ADDER	CONSUME	ADDER	CONSUME	COST	V 0&M	PRICE	
	(BTU/KWH)	(c/MBTU)	(\$/MWH)	(\$/MWH)	(\$/MWH)	(\$/MWH)	(\$/MWH)	(\$/ħ.twh)	(\$/MWH)	(S/MWH)	(\$/MWH)	
ZORN 1	18,676	610.28	142.95	0.00	0.00	0.00	0.00	0.00	142.95	3.00	145.95	
HAEFLING	17,000	815.00	138.09	0.00	0.00	0.00	0.00	0.00	138.09	3.00	141.09	

*In the table, the formulas used to compute Dispatch Cost have been replaced with actual generation cost estimates. The inputs to these formulas and other values not used in the calculation of power purchase exclusions have been struck.

LGE Purchases Above LGE's Highest Priced Unit (ZORN 1):

							unt Prior to FO			Additional		
		Purchase		MWh	Cost		llation	Excluded in FO		Exclusion	ZORN 1	
	MM/DD/YY Hr	From	Cost \$	Purch	\$/MWh	\$/MWh	\$	Calculation?		For FAC	Available ?	
1								YES	\$	-	Yes	
2								YES	\$	-	Yes	
3								YES	\$	•	Yes	
4								YES	\$	-	Yes	
5								YES	\$	-	Yes	
6								YES	\$	-	Yes	
7								YES	\$	-	Yes	
8								YES	\$	-	Yes	
9								YES	\$	-	Yes	
10								YES	\$	-	Yes	
11								YES	\$	-	Yes	
12								YES	\$	-	Yes	
13								YES	\$	-	Yes	
14								YES	\$	-	Yes	
15								YES	\$	-	Yes	
16								YES	\$	-	Yes	
17								YES	\$	-	Yes	
18								YES	\$	-	Yes	
19								YES	\$	-	Yes	
20								YES	\$	10	Yes	
21								YES	\$	-	Yes	
22								YES	\$	1	Yes	
23								YES	\$	-	Yes	
24								YES	Ś	-	Yes	
25								YES	\$	-	Yes	
						LG&E Total	; -	\$0.00	\$	-		

KU Purchases Above KU's Highest Priced Unit (HAEFLING):

				Excluded Amount Prior to FO Addition							
	Purchase			MWh	Cost	Calculation		Excluded in FC)	Exclusion	HAEFLING
	MM/DD/YY Hr	From	<u>Cost \$</u>	Purch	\$/MWh	\$/MWh	\$	Calculation?		For FAC	Available ?
								Yes			14
1									\$	1	Yes
2								Yes	\$	-	Yes
3								Yes	\$		Yes
4								Yes	\$	-	Yes
5								Yes	\$	3	Yes
6								Yes	\$	-	Yes
7								Yes	\$	-	Yes
8								Yes	\$		Yes
9								Yes	\$	-	Yes
10								Yes	\$		Yes
11								Yes	\$	-	Yes
12								Yes	\$	-	Yes
13								Yes	\$	-	Yes
14								Yes	\$	-	Yes
15								Yes	\$		Yes
16								Yes	\$	-	Yes
17								Yes	\$	-	Yes
18								Yes	\$	-	Yes
19								Yes	\$	-	Yes
20								Yes	\$	-	Yes
21								Yes	\$	-	Yes
22								Yes	\$	-	Yes
23								Yes	\$	-	Yes
24								Yes	\$	-	Yes
25								Yes	\$	-	Yes
						KU Total 💲	14	\$0.00	\$	-	=

Response to Information Requested in Commission's Post Hearing Data Request Dated April 7, 2016

Case No. 2016-00003

Question No. 4

Witness: Charles R. Schram

- Q-4. For each month of the period under review, calculate the power purchase exclusion from the fuel adjustment clause using an average of the minimum level and maximum level of operation for the highest cost unit and using the natural gas costs that were used in the Company's response to Item 4(b) of Staff's Third Set of Data Requests. Provide this information in Excel spreadsheet and hard-copy format.
- A-4. Due to control system limitations on the small Haefling units (approximately 12 MW each), it is not practical to dispatch the units as load-following units; they are always dispatched at their maximum output level. Therefore, this change in methodology would have no impact on the power purchase exclusions provided in response to Item 4(b) of Staff's Third Set of Data Requests.

Response to Information Requested in Commission's Post Hearing Data Request Dated April 7, 2016

Case No. 2016-00003

Question No. 5

Witness: Charles R. Schram

- Q-5. Provide the same information as requested in Item No. 4 above, except that, for the natural gas price, the Company should use an average of the highest and lowest natural gas costs for each month during the period under review. Provide this information in Excel spreadsheet and hard-copy format.
- A-5. Natural gas for KU's Haefling units is supplied by Columbia Gas of Kentucky and the tariff rate does not change from day to day. Therefore, this change in methodology would have no impact on the power purchase exclusions provided in response to Item 4(b) of Staff's Third Set of Data Requests.

Response to Information Requested in Commission's Post Hearing Data Request Dated April 7, 2016

Case No. 2016-00003

Question No. 6

Witness: Eileen Saunders

- Q-6. Refer to Item No. 7, page 1 of 5, of the Commission Staff's 1st Set of Data Requests to KU. The response shows that Brown units 1 and 2 experienced a scheduled outage in October for installation of a mercury monitor that was common to both units. Was this installation performed as a result of the Mercury and Air Toxics Standard? Has this been done or will it need to be done for other units?
- A-6. Mercury monitors were installed for Brown Units 1 and 2 to monitor the performance of mercury control equipment. These monitors are not being used for MATS compliance reporting as mercury traps are being used for that purpose. The installation of similar performance monitors are planned, or in various stages of completion, for coal fired units throughout the fleet.