


**ORIGINAL**



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PUBLIC SERVICE  
COMMISSION

**COMMONWEALTH OF KENTUCKY**

**BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY**

**In the Matter of:**

APPLICATION OF BIG RIVERS )  
ELECTRIC CORPORATION FOR A ) Case No. 2013-00199  
GENERAL ADJUSTMENT IN RATES )

**Response to the Kentucky Industrial Utility Customers'  
Initial Request for Information  
dated August 19, 2013**

**FILED: September 3, 2013**

**ORIGINAL**

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
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**September 3, 2013**

1 **Item 1)** *Please provide a copy of all workpapers and analyses used for this filing,*  
2 *including all electronic spreadsheets with formulas intact and no pasted-in values. If there*  
3 *are input values, then provide the source for those values and a copy of all source*  
4 *documents.*

5

6 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
7 unduly burdensome. Notwithstanding these objections, but without waiving them, please  
8 refer to the electronic attachments to Big Rivers' response to PSC 1-57.

9

10 **Witness)** Christopher A. Warren

**BIG RIVERS ELECTRIC CORPORATION**

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- 1    **Item 2)        *Refer to the Company's response to Item 6 of the post-hearing request for***  
2    ***information in Case No. 2012-00535 wherein the Company provided its reserve margin***  
3    ***after the Century load departs the system. For each of the requested calculations in this***  
4    ***question, provide all calculations electronically with formulas intact and no pasted-in***  
5    ***values.***
- 6            ***a.        Please provide the Company's capacity by unit that sums to the 1,846.5 MW***  
7            ***cited in that response.***
- 8            ***b.        Please indicate the measure of net generating capacity utilized to quantify***  
9            ***the 1,846.5 MW. Is this unforced capacity or installed capacity or some***  
10           ***other measure? Please provide a copy of the source/definition of the***  
11           ***measure used by the Company and provide the calculation that led to the***  
12           ***1,846.5 MW capacity value.***
- 13           ***c.        Please provide the Company's calculations of the planning reserve margin***  
14           ***requirements ("PRMR") of 1,703 MW with the Century load and 1,195.7***  
15           ***without the Century load cited in that response starting with the native load***  
16           ***and identifying all adjustments utilized for this purpose. Provide a copy of***  
17           ***the source/definition of the load and provide all of the calculations.***
- 18           ***d.        Please provide the Company's calculation of the planning reserve margin***  
19           ***requirements without the Century load and without the Alcan load.***





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- 1 e. The following calculation speaks for itself.
- 2 Century Load x CF x (1+Loss Rate) x (1+PRM)
- 3  $482.0 \times 0.97827 \times (1+0.013) \times (1+0.062) = 507.3$
- 4 This calculation is in accordance with MISO Business Practice Manual 011
- 5 Resource Adequacy, publicly available at [www.misoenergy.org](http://www.misoenergy.org).
- 6 f. 14.2% and 6.2%, per MISO Business Practice Manual 011 Resource
- 7 Adequacy, publicly available at [www.misoenergy.org](http://www.misoenergy.org). Please see the attached
- 8 electronic file titled "KIUC 1-2 Elec. Att. (Berry).xlsx."
- 9 g. Please see the attached electronic file titled "KIUC 1-2 Elec. Att.
- 10 (Berry).xlsx."
- 11 h. Please see Big Rivers' response to subpart (e) above.
- 12 i. No such table exists.
- 13
- 14 **Witness)** Robert W. Berry



BRPS — BIG RIVERS ELECTRIC CORPORATION

Monday, August 26, 2013 08:35 AM (Market Time)

Home	Registration	Demand	Planning Resources	Fulfillment	Admin
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Confirm UCAP

for MECT-0001: Results retrieved.

Plan Year: 2013-2014

Export

Help

Asset Owner: (All)

Resource Name A	LRZ	Asset Owner	Type	Effective ICAP	GVTC	Total IS	NRIS	ERIS	XEFORD	Wind %	TL% Inc	UCAP (Total)	UCAP (ERIS)	Confirm UCAP	Reject UCAP
												1846.5	190		
BREC.COLE1	Zone 6	BRPS	CP_NODE	150	150	150	150	0	0.04993			142.5	0		
BREC.COLE2	Zone 6	BRPS	CP_NODE	138	138	138	138	0	0.03415			133.3	0		
BREC.COLE3	Zone 6	BRPS	CP_NODE	155	156	155	155	0	0.03469			149.6	0		
BREC.GREEN1	Zone 6	BRPS	CP_NODE	231	232	231	231	0	0.03066			223.9	0		
BREC.GREEN2	Zone 6	BRPS	CP_NODE	223	223	223	223	0	0.01033			220.7	0		
BREC.HMP1	Zone 6	BRPS	CP_NODE	153	153	153	153	0	0.04597			146	0		
BREC.HMP2	Zone 6	BRPS	CP_NODE	158	158	160	160	0	0.06891			147.1	0		
BREC.REID1	Zone 6	BRPS	CP_NODE	52	52	65	65	0	0.16113			43.6	0		
BREC.REIDCT	Zone 6	BRPS	CP_NODE	56	56	65	65	0	0.15396			47.4	0		
BREC.WILSON1	Zone 6	BRPS	CP_NODE	417	432	417	417	0	0.03508			402.4	0		
SEPA-BREC RENEW	Zone 6	BRPS	LMR (ER)	181.1	181.1	181.1	0	181.1	0.01726			178	178		
SEPA-HMPL NEW	Zone 6	BRPS	LMR (ER)	12.2	12.2	12.2	0	12.2	0.01726			12	12		

**ELECTRONIC  
ATTACHMENT(S)  
PRODUCED  
SEPARATELY**



**BIG RIVERS ELECTRIC CORPORATION**  
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**September 3, 2013**

1    **Item 3)**        *Refer to page 5 lines 4-5 of Mr. Berry's Direct Testimony and the statement*  
2    *that the Company has net generating capacity available of 1,819 MW.*

3            *a.        Please indicate the measure of net generating capacity utilized to quantify*  
4            *the 1,819 MW. Is this unforced capacity or installed capacity or some other*  
5            *measure? Please provide a copy of the source/definition of the measure*  
6            *used by the Company and describe why and for what purposes the Company*  
7            *believes this is an appropriate measure of net generating capacity.*

8            *b.        Please reconcile the 1,819 MW cited in Mr. Berry's testimony to the 1,846.5*  
9            *MW cited in response to Item 6 of the post-hearing request for information*  
10           *in Case No. 2012-00535. Provide this reconciliation by generating unit and*  
11           *provide a detailed explanation of each reconciling difference.*

12

13    **Response)**

14            a.        The value is based on installed capacity for Big Rivers' owned units plus  
15            contractual rights to HMP&L Station II. The definition of the unit capacity  
16            can be found in IEEE Std 762 – 2006 in section 5 where capacity terms are  
17            defined. IEEE states in section 5.1 "The maximum capacity is the capacity  
18            that a unit can sustain over a specified period of time. The maximum capacity

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1 can be expressed as gross maximum capacity (GMC) or net maximum  
2 capacity (NMC). To establish this capacity, formal demonstration is required.  
3 The test should be repeated periodically.”

4 The dispatcher (currently MISO in Big Rivers' case) can require a unit  
5 to demonstrate the reported capacity at any time. Also, MISO has an annual  
6 GVTC (Generator Verification Test Capacity) requirement where the unit's  
7 capacity is demonstrated with operating data. The GVTC tested capacity  
8 along with the unit's EFORD is used to calculate the UCAP value.

9 b. The 1,819 MW refers to installed capacity that Big Rivers owns or has  
10 contractual rights to. The 1,846.5 refers to the MISO determined UCAP value  
11 Big Rivers has available to meet its MISO Module E Recourse Adequacy  
12 Requirements for the MISO 2013/2014 Planning Year as a Market Participant  
13 that is a Load Serving Entity. The requested reconciliation by unit is as  
14 follows, values in MW:

	<u>Units</u>	<u>Installed Capacity</u>	<u>UCAP</u>
15			
16	Coleman 1	150	142.5
17	Coleman 2	138	133.3
18	Coleman 3	155	149.6

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1	Green 1	231	223.9
2	Green 2	223	220.7
3	HMPL Rights	197	N/A
4	HMPL 1	N/A	146
5	HMPL 2	N/A	147.1
6	Reid 1	65	43.6
7	Reid CT	65	47.4
8	Wilson	417	402.4
9	SEPA-BREC	178	178
10	SEPA-HMPL	0	12
11	Total	1,819	1,846.5

12 Please also see Big Rivers' response to AG 1-71.

13

14 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 4)** *The capacity of the Wilson and Coleman plants sums to 860 MW, according*  
2 *to Mr. Berry. [Berry Direct Testimony at 4-5]. The Smelter load sums to 850 MW. The*  
3 *Smelter load plus reserve requirements is something greater than the Smelter load alone*  
4 *and greater than the sum of the capacity of only the Wilson and Coleman plants. Please*  
5 *describe all analyses performed by the Company to determine if other generating capacity*  
6 *in addition to Wilson and Coleman should be idled upon the Alcan load termination. In*  
7 *addition, please provide a copy of all such analyses. If the Company has not performed*  
8 *such analyses, then please explain why it did not do so.*

9  
10 **Response)** Big Rivers has performed no specific analyses to determine if additional  
11 generation could be idled; however, based on the information Big Rivers has received from  
12 MISO related to the MISO transmission reliability studies if the Hawesville and Sebree  
13 smelters continue to operate near full capacity, we believe it is unlikely that any additional  
14 generation in the Big Rivers' footprint could be idled while maintaining the reliability of  
15 delivery to Big Rivers' Members. MISO continues to evaluate the Attachment Y-2 for  
16 Wilson Station. Preliminary data indicates that either Coleman or Wilson could be required  
17 to operate if the two smelters continue to operate at their historical levels (850 MW).

18

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1 Witness) Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**  
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1    **Item 5)**        *Please provide the net book value of each of the Company's power plants by*  
2    *month since December 2012 through the most recent month for which actual information*  
3    *is available. Provide the electric plant in service, accumulated depreciation, and*  
4    *construction work in progress separately.*

5

6    **Response)**      Please see the attachment to this response.

7

8    **Witness)**        Billie J. Richert

Attachment for Response to KIUC 1-5  
 Net Book Value of Power Plant by Month  
 (January 31, 2013 through July 31, 2013)

Plant Net Value as of 1/31/2013 :

	Gross Book Value	Accum Depreciation	Net Book Value	CWIP
Reid	\$ 23,257,695.18	\$ (15,409,313.31)	\$ 7,848,381.87	\$ 321,860.89
Coleman	269,015,196.92	(87,501,386.91)	181,513,810.01	5,084,749.17
Green	391,814,851.78	(248,712,845.89)	143,102,005.89	15,771,872.45
Wilson	914,956,357.95	(458,183,291.51)	456,773,066.44	6,739,129.79
HMPL	105,769,022.20	(22,718,164.92)	83,050,857.28	1,393,151.17 <sup>1</sup>
Combustion Turbine	8,482,249.91	(6,001,302.21)	2,480,947.70	-
<b>Total</b>	<b>\$ 1,713,295,373.94</b>	<b>\$ (838,526,304.75)</b>	<b>\$ 874,769,069.19</b>	<b>\$ 29,310,763.47</b>

Plant Net Value as of 2/28/2013 :

	Gross Book Value	Accum Depreciation	Net Book Value	CWIP
Reid	\$ 23,257,695.18	\$ (15,442,981.55)	\$ 7,814,713.63	\$ 322,318.30
Coleman	269,015,420.72	(87,961,699.95)	181,053,720.77	5,225,015.63
Green	391,814,851.78	(249,371,392.82)	142,443,458.96	15,932,754.89
Wilson	914,956,357.95	(459,779,568.23)	455,176,789.72	6,775,011.05
HMPL	105,769,022.20	(22,984,613.24)	82,784,408.96	1,495,305.15 <sup>1</sup>
Combustion Turbine	8,482,249.91	(6,025,853.44)	2,456,396.47	-
<b>Total</b>	<b>\$ 1,713,295,597.74</b>	<b>\$ (841,566,109.23)</b>	<b>\$ 871,729,488.51</b>	<b>\$ 29,750,405.02</b>

Attachment for Response to KIUC 1-5  
 Net Book Value of Power Plant by Month  
 (January 31, 2013 through July 31, 2013)

***Plant Net Value as of 3/31/2013 :***

	<b>Gross Book Value</b>	<b>Accum Depreciation</b>	<b>Net Book Value</b>	<b>CWIP</b>
Reid	\$ 23,447,946.34	\$ (15,470,969.75)	\$ 7,976,976.59	\$ 130,306.20
Coleman	270,129,565.28	(88,272,776.89)	181,856,788.39	4,997,843.32
Green	393,416,091.43	(248,601,834.14)	144,814,257.29	13,076,053.22
Wilson	915,722,666.75	(461,030,591.31)	454,692,075.44	5,638,331.74
HMPL	106,050,896.43	(23,178,698.81)	82,872,197.62	1,711,486.53 <sup>1</sup>
Combustion Turbine	8,482,249.91	(6,050,404.67)	2,431,845.24	-
<b>Total</b>	<b>\$ 1,717,249,416.14</b>	<b>\$ (842,605,275.57)</b>	<b>\$ 874,644,140.57</b>	<b>\$ 25,554,021.01</b>

***Plant Net Value as of 4/30/2013 :***

	<b>Gross Book Value</b>	<b>Accum Depreciation</b>	<b>Net Book Value</b>	<b>CWIP</b>
Reid	\$ 23,447,946.34	\$ (15,504,944.87)	\$ 7,943,001.47	\$ 130,434.97
Coleman	270,129,565.28	(88,720,326.08)	181,409,239.20	6,391,093.66
Green	393,416,091.43	(249,263,044.34)	144,153,047.09	13,197,119.65
Wilson	915,722,666.75	(462,627,599.63)	453,095,067.12	5,692,369.20
HMPL	106,315,750.30	(22,938,964.92)	83,376,785.38	2,344,941.10 <sup>1</sup>
Combustion Turbine	8,482,249.91	(6,074,955.90)	2,407,294.01	-
<b>Total</b>	<b>\$ 1,717,514,270.01</b>	<b>\$ (845,129,835.74)</b>	<b>\$ 872,384,434.27</b>	<b>\$ 27,755,958.58</b>

***Plant Net Value as of 5/31/2013 :***

	<b>Gross Book Value</b>	<b>Accum Depreciation</b>	<b>Net Book Value</b>	<b>CWIP</b>
Reid	\$ 23,447,946.34	\$ (15,538,111.55)	\$ 7,909,834.79	\$ 143,085.63
Coleman	270,129,565.28	(89,175,654.95)	180,953,910.33	6,812,745.42
Green	393,416,091.43	(249,924,254.56)	143,491,836.87	13,360,654.67
Wilson	915,722,666.75	(464,225,630.34)	451,497,036.41	5,720,000.37
HMPL	106,315,750.30	(22,952,616.91)	83,363,133.39	3,987,987.58 <sup>1</sup>
Combustion Turbine	8,482,249.91	(6,099,507.13)	2,382,742.78	-
<b>Total</b>	<b>\$ 1,717,514,270.01</b>	<b>\$ (847,915,775.44)</b>	<b>\$ 869,598,494.57</b>	<b>\$ 30,024,473.67</b>



Attachment for Response to KIUC 1-5  
 Net Book Value of Power Plant by Month  
 (January 31, 2013 through July 31, 2013)

**Plant Net Value as of 6/30/2013:**

	<b>Gross Book Value</b>	<b>Accum Depreciation/ Reserve</b>	<b>Net Book Value</b>	<b>CWIP</b>
Reid	\$ 23,447,946.34	\$ (15,571,797.61)	\$ 7,876,148.73	\$ 141,783.77
Coleman	270,129,565.28	(89,630,528.94)	180,499,036.34	6,952,886.61
Green	393,416,091.43	(250,585,464.78)	142,830,626.65	13,579,508.76
Wilson	915,722,666.75	(465,822,429.77)	449,900,236.98	5,730,846.21
HMPL	106,315,750.30	(23,449,714.12)	82,866,036.18	4,324,597.25 <sup>1</sup>
Combustion Turbine	8,482,249.91	(6,124,058.36)	2,358,191.55	-
<b>Total</b>	<b>\$ 1,717,514,270.01</b>	<b>\$ (851,183,993.58)</b>	<b>\$ 866,330,276.43</b>	<b>\$ 30,729,622.60</b>

**Plant Net Value as of 7/31/2013:**

	<b>Gross Book Value</b>	<b>Accum Depreciation/ Reserve</b>	<b>Net Book Value</b>	<b>CWIP</b>
Reid	\$ 23,450,388.40	\$ (15,605,804.31)	\$ 7,844,584.09	\$ 143,506.52
Coleman	270,129,565.28	(90,036,672.34)	180,092,892.94	7,309,351.01
Green	393,416,091.43	(251,246,469.13)	142,169,622.30	14,090,247.88
Wilson	915,722,666.75	(467,417,320.28)	448,305,346.47	5,901,195.66
HMPL	106,365,565.74	(23,279,034.37)	83,086,531.37	3,830,090.02 <sup>1</sup>
Combustion Turbine	8,482,249.91	(6,148,609.31)	2,333,640.60	-
<b>Total</b>	<b>\$ 1,717,566,527.51</b>	<b>\$ (853,733,909.74)</b>	<b>\$ 863,832,617.77</b>	<b>\$ 31,274,391.09</b>

<sup>1</sup> Contains only Big Rivers' portion of Henderson Municipal Power & Light (HMPL) projects

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**September 3, 2013**

1 **Item 6)** *Please provide the fuel inventory and the materials and supplies inventory*  
2 *by RUS account for each of the Company's power plants by month since December 2012*  
3 *through the most recent month for which actual information is available.*

4

5 **Response)** Please see the attached document.

6

7 **Witness)** Billie J. Richert

**Attachment for Response to KIUC 1-6  
Fuel Inventory and Material Supplies Inventory By Power Plant**

Line No.	Account Number	Account Description	Jan-13	Feb-13	Mar-13	Apr-13
1	15111000	FUEL STOCK-COAL-REID	\$ 639,497	\$ 639,497	\$ 639,497	\$ 639,497
2	15112000	FUEL STOCK-COAL-COLEMAN	4,233,940	4,199,695	5,054,799	5,092,932
3	15112100	FUEL STOCK-COAL-IN TRANSIT-COLEMAN	1,465,342	1,439,101	425,318	79,618
4	15113000	FUEL STOCK-COAL-GREEN	4,318,868	5,192,029	4,560,170	5,576,146
5	15113100	FUEL STOCK-COAL-IN TRANSIT-GREEN	68,478	582,106	62,633	945,686
6	15114000	FUEL STOCK-COAL-WILSON	3,384,746	3,746,068	3,842,383	3,711,514
7	15114100	FUEL STOCK-COAL-IN TRANSIT-WILSON	79,113	901,711	270,003	807,668
8	15115000	FUEL STOCK-COAL-STATION TWO	6,780,133	6,621,758	6,623,772	8,473,877
9	15131000	FUEL STOCK-OIL-REID/STATION TWO	176,607	140,683	160,448	180,010
10	15132000	FUEL STOCK-OIL-GAS TURBINE	1,042,094	938,456	849,985	777,833
11	15133000	FUEL STOCK-OIL-GREEN	95,426	143,993	76,762	126,930
12	15134000	FUEL STOCK-OIL-WILSON	705,380	693,251	613,622	551,810
13	15139000	FUEL STOCK-NATURAL GAS-GAS TURBINE	-	-	-	-
14	15152000	FUEL STOCK-PROPANE-COLEMAN	43,371	37,447	37,447	37,447
15	15173000	FUEL STOCK-PETROL COKE-GREEN	504,645	159,432	1,717,765	1,089,690
16	15173100	FUEL STOCK-PET COKE-IN TRANSIT-GREEN	920,408	778,420	693,532	848,986
17	15174000	FUEL STOCK-PETROL COKE-WILSON	2,120,898	2,470,157	2,765,910	2,880,303
18	15174100	FUEL STOCK-PET COKE-IN TRANSIT-WILSON	1,139,478	730,528	889,111	558,602
19	15420000	MATERIALS & SUPPLIES-REID	1,419,440	1,410,604	1,444,496	1,423,965
20	15420000	MATERIALS & SUPPLIES-COLEMAN	6,814,891	6,824,204	6,570,817	6,655,341
21	15420000	MATERIALS & SUPPLIES-GREEN	5,551,150	5,546,063	5,545,243	5,581,012
22	15420000	MATERIALS & SUPPLIES-WILSON	6,244,096	6,327,462	6,394,382	6,308,683
23	15490000	MATERIALS & SUPPLIES-STATION TWO	2,664,326	2,566,968	2,541,578	2,470,908
24						

Case No. 2013-00199

Attachment for Response to KIUC 1-6

Witness: Billie J. Richert

Page 1 of 2

**Attachment for Response to KIUC 1-6**  
**Fuel Inventory and Material Supplies Inventory By Power Plant**

<b>Line No.</b>	<b>Account Number</b>	<b>Account Description</b>	<b>May-13</b>	<b>Jun-13</b>	<b>Jul-13</b>
1	15111000	FUEL STOCK-COAL-REID	\$ 639,497	\$ 633,271	\$ 399,397
2	15112000	FUEL STOCK-COAL-COLEMAN	4,797,599	6,505,045	6,215,883
3	15112100	FUEL STOCK-COAL-IN TRANSIT-COLEMAN	1,373,438	1,375,318	1,189,894
4	15113000	FUEL STOCK-COAL-GREEN	6,637,761	5,102,255	4,459,446
5	15113100	FUEL STOCK-COAL-IN TRANSIT-GREEN	-	765,394	829,523
6	15114000	FUEL STOCK-COAL-WILSON	4,860,713	4,982,537	4,874,398
7	15114100	FUEL STOCK-COAL-IN TRANSIT-WILSON	729,790	257,077	-
8	15115000	FUEL STOCK-COAL-STATION TWO	9,997,004	9,935,332	8,875,148
9	15131000	FUEL STOCK-OIL-REID/STATION TWO	161,420	165,571	117,626
10	15132000	FUEL STOCK-OIL-GAS TURBINE	575,198	939,546	656,469
11	15133000	FUEL STOCK-OIL-GREEN	104,895	97,022	105,518
12	15134000	FUEL STOCK-OIL-WILSON	418,942	642,676	526,731
13	15139000	FUEL STOCK-NATURAL GAS-GAS TURBINE	-	-	-
14	15152000	FUEL STOCK-PROPANE-COLEMAN	37,447	37,447	37,447
15	15173000	FUEL STOCK-PETROL COKE-GREEN	276,017	211,194	146,982
16	15173100	FUEL STOCK-PET COKE-IN TRANSIT-GREEN	1,226,852	924,876	897,212
17	15174000	FUEL STOCK-PETROL COKE-WILSON	1,790,789	1,533,656	2,596,037
18	15174100	FUEL STOCK-PET COKE-IN TRANSIT-WILSON	1,692,690	2,223,827	545,709
19	15420000	MATERIALS & SUPPLIES-REID	1,425,842	1,422,545	1,416,126
20	15420000	MATERIALS & SUPPLIES-COLEMAN	6,833,301	6,940,148	6,828,124
21	15420000	MATERIALS & SUPPLIES-GREEN	5,630,225	5,900,714	5,900,361
22	15420000	MATERIALS & SUPPLIES-WILSON	6,272,373	6,297,018	6,329,041
23	15490000	MATERIALS & SUPPLIES-STATION TWO	2,469,275	2,481,822	2,492,814
24					

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Attachment for Response to KIUC 1-6

Witness: Billie J. Richert

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1 **Item 7)** *Please provide the allowance inventories by RUS account and type of*  
2 *allowance for each of the Company's power plants by month since December 2012*  
3 *through the most recent month for which actual information is available.*

4

5 **Response)** Please see the attachment to this response for emission allowance inventories  
6 by RUS account and type of allowance for each of Big Rivers' power plants by month since  
7 December 2012 through July 2013 (the most recent month for which actual information is  
8 available).

9

10 **Witness)** Billie J. Richert

Attachment for Response to KIUC 1-7  
Emission Allowance Inventories for December 2012 through July 2013

**SO2 Allowance Inventory:**

Acct. 15811000

Month	Description	Purchases	Coleman	Green	Reid	Wilson	Ending SO2 Allowance Inventory
Dec-12	Ending Balance						\$ 229,622.14
Jan-13	Usage	\$ -	\$ (1,086.16)	\$ (868.20)	\$ -	\$ (3,305.57)	\$ 224,362.21
Feb-13	Usage	\$ -	\$ (1,437.22)	\$ (976.15)	\$ -	\$ (2,877.69)	\$ 219,071.15
Mar-13	Usage	\$ -	\$ (1,058.93)	\$ (1,147.43)	\$ -	\$ (2,663.79)	\$ 214,201.00
Apr-13	Usage	\$ -	\$ (2,225.90)	\$ (1,731.93)	\$ (0.41)	\$ (2,649.24)	\$ 207,593.52
May-13	Usage	\$ -	\$ (3,260.43)	\$ (1,793.18)	\$ (0.41)	\$ (2,384.14)	\$ 200,155.36
Jun-13	Usage	\$ -	\$ (3,985.84)	\$ (1,832.18)	\$ (450.94)	\$ (2,510.02)	\$ 191,376.38
Jul-13	Usage	\$ -	\$ (994.50)	\$ (2,035.29)	\$ (1,942.73)	\$ (2,405.48)	\$ 183,998.38

**NOx Allowance Inventory:**

Acct. 15812000

Month	Description	Purchases	Coleman	Green	Reid	Wilson	Ending NOx Allowance Inventory
Dec-12	Ending Balance						\$ -
Jan-13	Purchases	\$ 15,675.00	\$ (793.91)	\$ (585.44)	\$ (0.16)	\$ (176.55)	\$ 14,118.94
Feb-13	Usage	\$ -	\$ (744.89)	\$ (561.89)	\$ -	\$ (139.47)	\$ 12,672.69
Mar-13	Usage	\$ -	\$ (734.73)	\$ (501.75)	\$ -	\$ (132.86)	\$ 11,303.35
Apr-13	Usage	\$ -	\$ (798.58)	\$ (562.86)	\$ (2.10)	\$ (124.47)	\$ 9,815.34
May-13	Usage	\$ -	\$ (850.01)	\$ (588.66)	\$ (2.42)	\$ (117.22)	\$ 8,257.03
Jun-13	Usage	\$ -	\$ (806.48)	\$ (534.00)	\$ (21.61)	\$ (123.67)	\$ 6,771.27
Jul-13	Usage	\$ -	\$ (824.54)	\$ (568.18)	\$ (82.55)	\$ (118.83)	\$ 5,177.17

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1 **Item 8)***Refer to page 11 lines 9-16 of Mr. Berry's Direct Testimony wherein he*  
2 *describes the Company's attempts to market its excess capacity in responses to 4 RFPs,*  
3 *including the sale of the Wilson and Coleman plants.*

4 **a.***Please provide a copy of each of the proposals to third parties and any*  
5 *responses received after submitting its proposals.*

6 **b.***For proposals to sell the Wilson and/or Coleman plants, please indicate*  
7 *whether the offer price was more or less than net book value. If more than*  
8 *net book value, please explain why the Company did not offer the plants for*  
9 *sale at net book value or less.*

10 **c.***Please provide a copy of all studies, analyses, and reports that attempt to*  
11 *ascertain the market value of the Wilson and Coleman plants. If there are*  
12 *none, then please describe how the Company can realistically assess the*  
13 *market value of these plants.*

14 **d.***Is it the Company's policy that it will not sell Wilson or Coleman plants at*  
15 *less than net book value? If this is the Company's policy, please explain the*  
16 *rationale for this policy.*

17 **e.***Please provide a copy of all documents that describe in whole or part the*  
18 *Company's bidding strategy and/or guidelines for the sale of Wilson and*

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1            *Coleman plants or the sale of the output of the plants through a PPA.*  
2            *Identify and describe the source and/or basis for this strategy and/or*  
3            *guidelines.*

4            *f. Please confirm that the Company agrees, as a matter of principle, that if it*  
5            *cannot sell its power plants at net book value, then offering them into an*  
6            *RFP at something greater than net book value is a certain loser.*

7            *g. Mr. Berry states that the Company had informal discussions with other*  
8            *potential parties. Please provide a summary of the discussions that took*  
9            *place, including the party(ies), the generating units that were discussed, and*  
10           *the terms that were discussed, if any.*

11

12    **Response)**

13            a.    Big Rivers objects to this request on the grounds that it is overly broad and  
14            unduly burdensome. Big Rivers also objects to this request on the grounds  
15            that it seeks information that is not relevant and is not likely to lead to the  
16            discovery of admissible evidence in this case. Notwithstanding these  
17            objections, but without waving them, please see Big Rivers' response to PSC  
18            2-16.





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1           f.       Big Rivers objects to this request on the grounds that the use of the phrase “is  
2                   a certain loser” is subjective, unduly vague, and ambiguous. Notwithstanding  
3                   this objection, but without waiving it, Big Rivers states that its assets are  
4                   valuable, competitive assets that have a significant remaining useful life. The  
5                   assets will provide value to Big Rivers’ Members in the future, whether  
6                   through the sale of the facility, the sale of its output to another entity, or to  
7                   serve future load growth in Big Rivers’ footprint through economic  
8                   development or increased Membership.

9           g.       Please see Big Rivers’ response to PSC 2-15.

10

11   **Witness)**     Robert W. Berry

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1 **Item 9) Refer to page 43-44 of the Company's Post-Hearing Brief in Case No. 2012-**

2 **00535 wherein the Company describes its plans and attempts to sell its power plants.**

3 **a. The Company states that "it has a set a price on both plants." Please**  
4 **provide those prices and all analyses performed by the Company to set those**  
5 **prices.**

6 **b. The Company states that none of the potential counterparties to Big Rivers'**  
7 **proposed sale of its power plants "have refused the offers currently on the**  
8 **table." Please indicate whether the Company responded to Kentucky Power**  
9 **Company's RFP to supply capacity to replace Big Sandy with offers to sell**  
10 **Kentucky Power the Wilson and Coleman power plants. If so, then please**  
11 **provide a copy of the Company's bid proposals and workpapers**  
12 **(electronically with all formulas intact) created to derive responses to the**  
13 **proposal, and provide a copy of Kentucky Power Company's response, if**  
14 **any. If not, then please explain why the Company did not offer to sell the**  
15 **power plants to Kentucky Power Company.**

16 **c. The Company states that "Big Rivers would consider an offer to purchase**  
17 **one of its plants if that offer would not result in a loss of equity . . . and if**  
18 **the price paid for the plant was high enough to fairly compensate Big**

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1           *Rivers' Members, taking into account the anticipated ongoing financial*  
2           *benefits from sales of available generation capacity." Please confirm that*  
3           *this means Big Rivers has set a minimum sale price of something greater*  
4           *than net book value. Provide a copy of all documents and communications*  
5           *that set forth this policy, the rationale in support of this policy, and all*  
6           *analyses that indicate a market value for the power plants that is equal to or*  
7           *greater than net book value.*

8  
9   **Response)**   Big Rivers objects to discovery about statements made in a brief filed in a  
10 separate proceeding that were not evidence in that proceeding and are not evidence in this  
11 proceeding. Notwithstanding this objection, but without waiving it, please see Big Rivers'  
12 response to PSC 2-16.

13

14   **Witness)**   Counsel

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1 **Item 10)** *Refer to page 13 lines 19-22 of Mr. Berry's Direct Testimony. Please*  
2 *provide a copy of all studies to assess the economic viability of the Wilson and Coleman*  
3 *plants and the timing of their return to service.*

4

5 **Response)** Please see Big Rivers' response to PSC 2-14.

6

7 **Witness)** Robert W. Berry

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1    Item 11)       *Refer to page 15 lines 9-15 of Mr. Berry's Direct Testimony wherein he*  
2    *states: "Furthermore, with both smelters off the Big Rivers system, the Wilson unit is not*  
3    *the optimal size for this smaller system. Big Rivers' peak demand after the smelters exit*  
4    *will be approximately 650 MW. It would not be prudent for Big Rivers to take the risk of*  
5    *losing more than 64% (417/650) of its required capacity when a single unit trips off line."*  
6    *Please explain the relevance of this testimony, e.g., does Big Rivers plan to sell all or a*  
7    *share of Wilson because it does not provide the right-size capacity for the remaining load.*

8  
9    **Response)**    This testimony is relevant because page 15 at line 1 of Mr. Berry's Direct  
10    Testimony states: "Why did Big Rivers choose to idle the Wilson and Coleman Stations in  
11    the forecast?" The fact that the Wilson station capacity was 64% of the total system peak  
12    demand, absent the smelter load, was part of Big Rivers' reasoning for idling the Wilson  
13    plant instead of one of its other facilities.

14           Big Rivers has offered to multiple parties the option to purchase or lease the Coleman  
15    and/or Wilson stations as part of its Load Concentration Analysis and Mitigation Plan.

16

17    **Witness)**     Robert W. Berry

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1 **Item 12)** *Refer to page 20 lines 11-23 of Mr. Berry's Direct Testimony. Please*  
2 *provide a copy of the output reports for the ACES production cost model used by Mr.*  
3 *Warren to develop results incorporated in the Company's financial forecast. These results*  
4 *should be provided through the latest date available. Please provide this in electronic*  
5 *format with all formulas intact and include all supporting assumptions and electronic*  
6 *workpapers. If there are any other referenced spreadsheets, provide those spreadsheets as*  
7 *well. At a minimum this should include:*

- 8 **a.** *The ACES market price projections and all market price projection*  
9 *sensitivities, e.g., high and low gas prices, no carbon and carbon. Provide*  
10 *the assumptions and the sources for each assumption used in the base case*  
11 *and each of the sensitivities. This includes any spreadsheets that were used*  
12 *to develop the market price projections.*
- 13 **b.** *The fuel price forecasts by generating unit and any sensitivity forecasts, e.g.,*  
14 *high and low gas prices, no carbon and carbon, that ACES, Big Rivers, or*  
15 *any other consultant developed. Provide the assumptions and the sources*  
16 *for each assumption used in the base case and each of the sensitivities. This*  
17 *includes any spreadsheets that were used to develop the fuel price forecasts.*

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- 1           c.       *The CO2 and other emissions price forecasts and sensitivity forecasts that*  
2                    *ACES, Big Rivers, or any other consultant developed.*
- 3           d.       *Generating unit O&M fixed and variable inputs.*
- 4           e.       *Generating unit heat rate input assumptions.*
- 5           f.       *Generating unit availability rate and forced outage rate assumptions.*
- 6           g.       *The load forecast (peak demand and energy) incorporated in the ACES*  
7                    *production cost model.*
- 8           h.       *The market capacity price forecast model.*

9

10 **Response)**   Please see the CONFIDENTIAL electronic file titled "PCM Run" attached to  
11 Big Rivers' response to PSC 1-57.

- 12           a.       The ACES market price projections used in the PCM are provided on the  
13                    "Prices" and the "Annual Prices" worksheets of the "PCM Run" file. The  
14                    ACES market price projections do not include any carbon and the only  
15                    sensitivity runs included runs at 10% higher and 10% lower market prices.  
16                    All other production cost model runs can be found in the CONFIDENTIAL  
17                    electronic files attached to Big Rivers' response to AG 1-98. A short



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1 explanation of how ACES power market prices are obtained can be found in  
2 Big Rivers' response to PSC 2-14.

3 b. Please see the attached CONFIDENTIAL electronic file titled "KIUC 1-  
4 12(b,d-f) Elec. Att. (CONFIDENTIAL) (Berry) (Gen Inputs).xlsx" that is  
5 being provided under a petition for confidential treatment. Refer to the  
6 worksheet tab labeled "Hedged Fuel" for the fuel price forecasts by unit used  
7 in the PCM. Please see the attached CONFIDENTIAL electronic file titled  
8 "KIUC 1-12(b) Elec. Att. (CONFIDENTIAL) (Berry) (2013-2017 Fuel  
9 Pricing).xlsx" that is being provided under a petition for confidential  
10 treatment for the contract fuel amount and prices along with the spot fuel  
11 amount and prices that were used in developing the fuel prices that were used  
12 in the modeling. Please see the attached CONFIDENTIAL electronic file  
13 entitled "KIUC 1-12(b) Elec. Att. (CONFIDENTIAL) (Berry) (Long Term  
14 Fuel Pricing).xlsx" that is being provided under a petition for confidential  
15 treatment to see how the fuel prices were escalated from 2018 to 2028.

16 c. No CO2 emissions price forecast is used in the modeling. Emission pricing  
17 for SO2 and NOx can be found on the "Prices" and "Annual Prices"

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1           worksheets provided in the PCM exhibits. SO2 and NOx pricing used  
2           assumed CAIR remained in effect during the duration.

3           d.     Please see the attached CONFIDENTIAL electronic file titled "KIUC 1-  
4           12(b,d-f) Elec. Att. (CONFIDENTIAL) (Berry) (Gen Inputs).xlsx" that is  
5           being provided under a petition for confidential treatment. Refer to the  
6           worksheet tab labeled "Misc. Costs and Emissions" for the forecasted variable  
7           costs by unit. The PCM does not use any fixed cost inputs.

8           e.     Please see the attached CONFIDENTIAL electronic file entitled "KIUC 1-  
9           12(b,d-f) Elec. Att. (CONFIDENTIAL) (Berry) (Gen Inputs).xlsx" that is  
10          being provided under a petition for confidential treatment. Refer to the  
11          worksheet tab labeled "Heat Rates" for the forecasted heat rate curve used in  
12          the modeling.

13          f.     Please see the attached CONFIDENTIAL electronic file titled "KIUC 1-  
14          12(b,d-f) Elec. Att. (CONFIDENTIAL) (Berry) (Gen Inputs).xlsx" that is  
15          being provided under a petition for confidential treatment. Refer to the  
16          worksheet tab labeled "Forced Outages" for the forced outage rate  
17          assumptions and the "Scheduled Outage" worksheet for the forecasted

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1           planned outage schedule that will be used to calculate availability in the  
2           modeling.

3           g.     Please see the attached CONFIDENTIAL electronic file titled "KIUC 1-12(g)  
4           Elec. Att. (CONFIDENTIAL) (Berry) (Load Forecast).xlsm" that is being  
5           provided pursuant to a petition for confidential treatment for the load forecast  
6           that was supplied to ACES for modeling.

7           h.     No market capacity pricing was utilized in the production cost modeling.

8

9   **Witness)**     Robert W. Berry

**ELECTRONIC  
ATTACHMENT(S)  
PRODUCED  
SEPARATELY**

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1 **Item 13)** *Provide Big Rivers' projection of the future value of MISO market capacity*  
2 *in the same format as Exhibit Berry Rebuttal-1 in Case No. 2012-00535.*

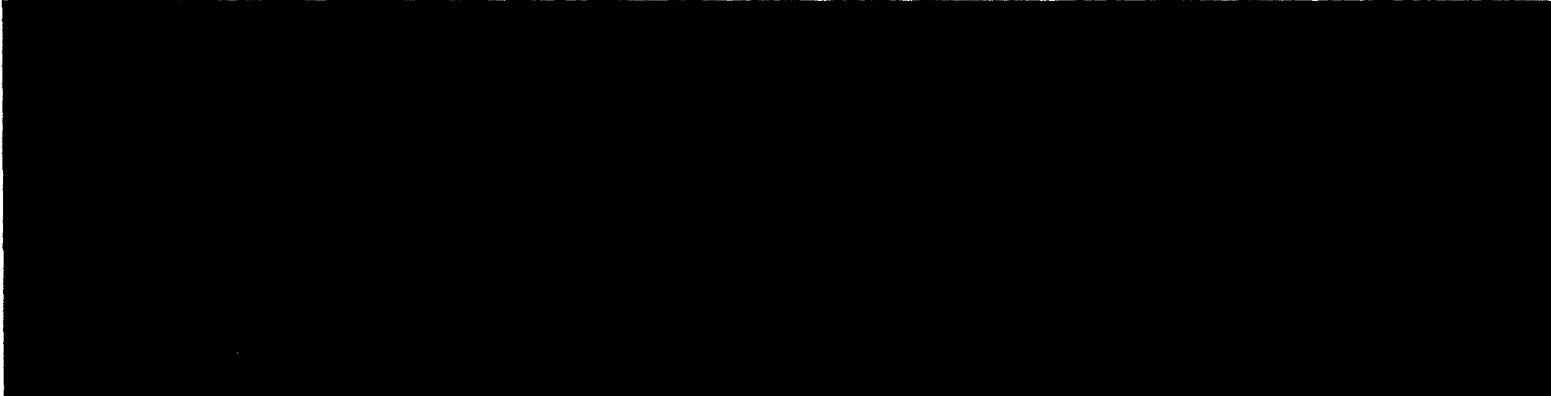
3

4 **Response)** Big Rivers utilizes industry experts such as Wood Mackenzie, IHS Global,  
5 and ACES for projections of both capacity and energy. Big Rivers' most recent MISO  
6 market capacity forecast was provided as Exhibit Berry Rebuttal-1 in Case No. 2012-00535,  
7 a copy of which is provided under a petition for confidential treatment. Most industry  
8 experts are predicting significant increases in the MISO market capacity prices beyond 2016.  
9 In July 2013, in a presentation labeled *MISO At-a-Glance*, John R. Bear, President and CEO  
10 of MISO, indicated that MISO would see a shortfall between 6-9 GW in 2016 based on  
11 current analysis. Please see the attached portion of that report, which was highlighted by the  
12 Commission and introduced in the final hearing in Case No. 2013-00221 as PSC Exhibit 2.

13

14 **Witness)** Robert W. Berry

**Exhibit Berry Rebuttal-1**  
**Future Projected Value of MISO Market Capacity\***

Year	Wood-Mackenzie Projection MISO Capacity Value		IHS Global Projection MISO Capacity Value	
	\$/kW-Month	482 MW Value	\$/kW-Month	482 MW Value
2014				
2015				
2016				
2017				
2018				
2019				
2020				
2021				
2022				
2023				

\*Note: These projections include only values for capacity. Energy values are not included in these projections.

# MIS

## At-a-Glance

July 2013



# Welcome

from John R. Bear, President and CEO of MISO

## Dear Friends of MISO:

As you know, there are several complex challenges which are converging. Economic recovery signals, environmental compliance uncertainty and risks to resource adequacy are some of the critical matters facing our industry. Taking a focused approach to strengthen our core business functions while balancing several of these key strategic initiatives has resulted in better stakeholder coordination, greater price transparency for regulators and improved reliability for members. Against this backdrop, we thank you for your continued support in working with us.



## Regional Reliability - 2013 and Beyond

Refining our processes and improving our core services reflect a broader regional view that provides added value for our membership. Our focus for the remainder of 2013 and beyond will mitigate the impact of changes in the following critical areas:

- **Energy Policy:** We continue to analyze the impact of key policy changes associated with environmental regulations, transmission planning, increased compliance focus, and renewable mandates.
- **Environmental Compliance:** Shortfalls between 6-9 GW are expected in 2016 based on current analysis due to environmental compliance and routine outage scheduling, particularly during off-peak or shoulder periods. Greater transparency from utilities on generation and transmission outage plans will greatly aid MISO's regional situational awareness and ability to mitigate outages in non-shoulder periods.
- **Portfolio Shift:** MISO continues its outreach with generation owners, gas industry experts and policy makers to help reliably facilitate compliance with new Mercury and Air Toxics Standards (MATS). We continue to survey our members quarterly on their plans, and study and coordinate gas-electric interdependency analysis and the transition to gas-fired generation.
- **South Region Integration:** In the South Region, MISO is on target for full system integration in December 2013. We now provide our reliability coordination services for the region, and last month received unanimous approval to expand our balancing authority upon integration. This expanded and geographically diverse footprint will bring economic benefits to consumers with improved system reliability and generation diversity for all MISO members.
- **Order 1000:** MISO remains fully engaged with our neighbors to achieve the most efficient use of the transmission system through improved seams coordination and Order 1000 compliance. This month's interregional Order 1000 compliance filings reflect improved coordination, and the opportunities that still remain to address differing approaches to regional cost allocation.

I look forward to continued collaboration with regulators and stakeholders as we respond to the challenges ahead ensuring continued focus on the lowest-cost delivered energy for all consumers throughout MISO.

Sincerely,

John R. Bear  
President and CEO  
Midcontinent Independent System Operator, Inc.

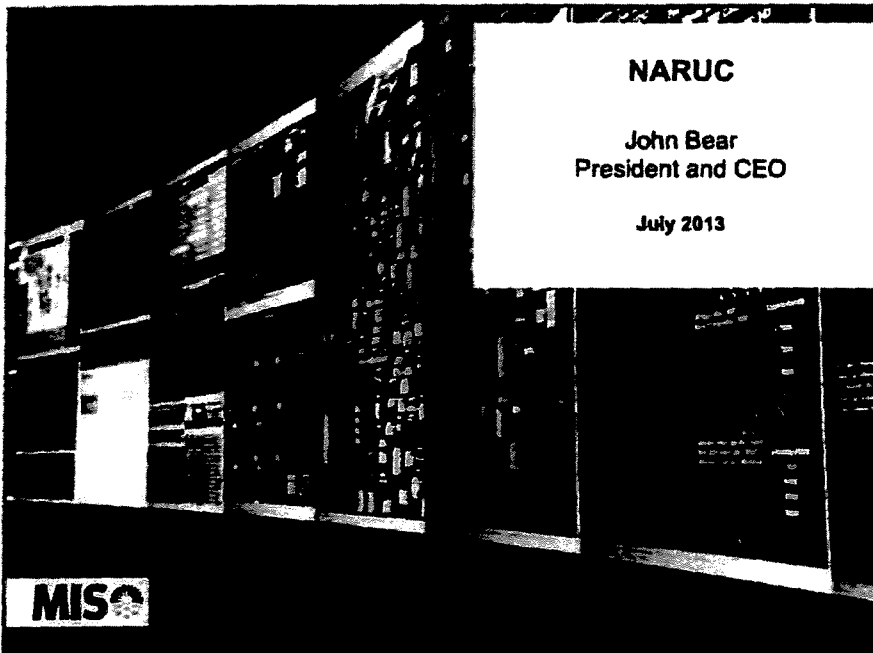


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**MISO region must work collaboratively, transparently and quickly to address resource adequacy risks**

- MISO's generation fleet's composition and utilization is evolving rapidly
- Resource adequacy risks will persist for foreseeable future
  - Outage coordination period – Mercury and Air Toxic Standards (MATS) upgrades
  - Retirement Phase I – MATS compliance
  - Retirement Phase II – Proposed water/carbon regulations
- Forward transparency of plans is critical to mitigate risks.
- Load shedding is a shared risk in our "Mutual Insurance Pool" model

**MISO**

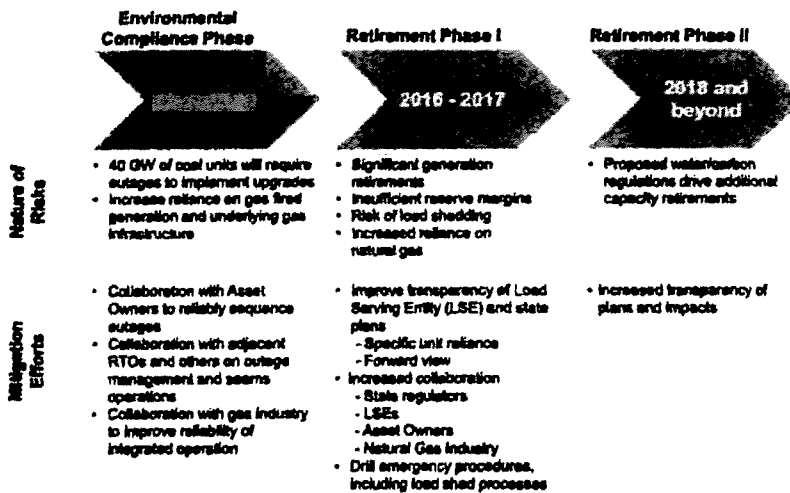
**Many factors are influencing the evolution of the region's generation fleet**

- Significant unit retirements, driven by:
  - Age
  - Environmental regulations
  - Economics
- Fuel costs, particularly natural gas prices
- Current and proposed future environmental regulations
  - MATS
  - Water
  - Carbon

**These changes will result in reserve margin erosion and increased reliance on gas transport infrastructure designed for a different purpose.**



**The generation fleet's evolution increases resource adequacy risks in three distinct periods**



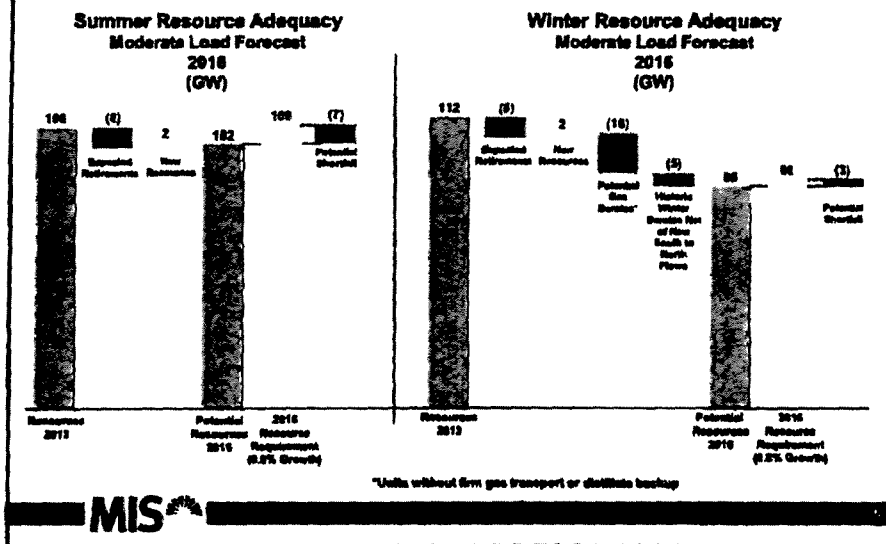
**MISO is collaborating with various parties to maximize preparedness for the coming challenges**

- MISO surveying Load Serving Entities quarterly regarding their plans to comply with environmental regulations.
- MISO partnering with state regulators to perform resource assessment for the near-term period.
- MISO collaborating with the natural gas industry and stakeholder communities to explore improvements in gas-electric coordination.
- MISO remains focused on interregional deliverability to maximize flexibility and improve reliability.

The outlook derived from these efforts contains uncertainty, but is currently the best information we have to plan from...



**Forecast 2016 resource adequacy is very tight under a moderate (50/50) load forecast scenario**



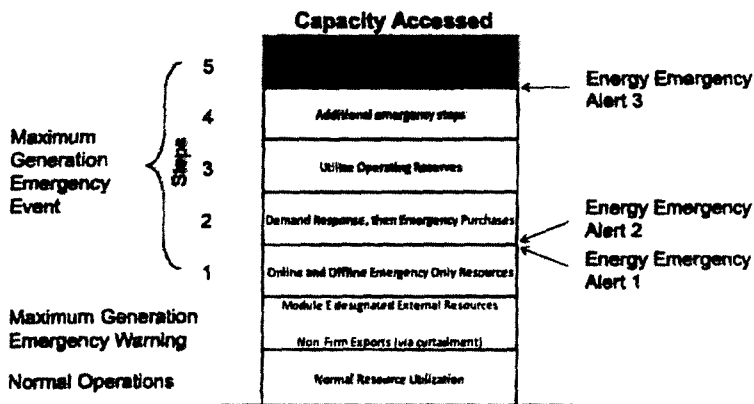
**Limited options remain to mitigate the potential 2016 shortfall**

- Planning Horizon
  - Window narrowing for new capacity additions - likely limited to current site expansion
- Operating Horizon
  - Heavy reliance on demand side resources
  - Emergency purchases from neighboring entities where available
  - Load shed as a last resort

**The lack of a complete supply picture in the immediate future puts longer-lead solutions at risk**



**Tight or inadequate supply in real-time requires MISO to initiate its Capacity Emergency Procedure to gain access to certain resources**



**More engagement is needed to improve regional visibility and achieve clarity**

- Improved transparency into Load Serving Entities plans would allow for a complete assessment of reliability risk.
  - Partial or non-responses are limiting clarity in terms of retirement levels and outage timing.
- State agreement on regional roles is necessary to allow these challenges, including prevention of overbuilding, to be addressed in a timely and effective manner.
- Continued collaboration between the electric and natural gas industries is critical to fully understand and minimize fuel supply risk for gas-fired resources.

**MISO**

**MISO region must work collaboratively, transparently and quickly to address resource adequacy risks**

- MISO's generation fleet's composition and utilization is evolving rapidly
- Resource adequacy risks will persist for foreseeable future
  - Outage coordination period – Mercury and Air Toxic Standards (MATS) upgrades
  - Retirement Phase I – MATS compliance
  - Retirement Phase II – Proposed water/carbon regulations
- Forward transparency of plans is critical to resolution
- Load shedding is a shared risk in our "Mutual Insurance Pool" model

**MISO**

**BIG RIVERS ELECTRIC CORPORATION**  
**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION**  
**FOR A GENERAL ADJUSTMENT IN RATES**  
**CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s**  
**Initial Request for Information**  
**dated August 19, 2013**

**September 3, 2013**

1 **Item 14)**     *For each year of 2013 through 2020, identify:*

2           *a.     Projected total off-system sales in MWhs*

3           *b.     Projected total off-system sales revenues.*

4

5 **Response)**    The confidential off-system MWh and revenues for each year 2013-2020 is  
6 presented in the chart below.

7

	Off-System MWh (a.)	Off-System Revenues (b.)
8		
9	2013	
10	2014	
11	2015	
12	2016	
13	2017	
	2018	
	2019	
	2020	

14 **Witness)**     Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 15)** *Refer to page 20 lines 11-23 of Mr. Berry's Direct Testimony. Please*  
2 *provide a copy of the output reports for the ACES production cost model used by Mr.*  
3 *Warren to develop results incorporated in the Company's financial forecast. These results*  
4 *should be provided through the latest date available. Please provide this in electronic*  
5 *format with all formulas intact and include all supporting assumptions and electronic*  
6 *workpapers. If there are any other referenced spreadsheets, provide those spreadsheets as*  
7 *well. At a minimum this should include:*

8 *a. All standard PAR model output files including .yr, .mn, .eei, .lfc, .log, .ctl,*  
9 *etc for all runs that were made for purposes of the Company's filing in this*  
10 *proceeding.*

11 *b. All spreadsheets that the Company or any of its consultants developed as a*  
12 *means of reporting or analyzing output results, including any post*  
13 *processing analyses, based on all of the production cost runs that were made*  
14 *for purposes of the Company's filing in this proceeding.*

15

16 **Response)** For the production cost model output file utilized by Mr. Warren to develop  
17 the financial model, please see the CONFIDENTIAL electronic file titled "PCM Run"  
18 attached to Big Rivers' response to PSC 1-57.



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- 1           a.       Big Rivers does not receive or utilize any of the standard PAR output files.  
2                    ACES takes the PAR model output files and creates a PCM Model run exhibit  
3                    file in a Microsoft Excel spreadsheet that is sent to Big Rivers. These exhibit  
4                    files are the PCM model run files.
- 5           b.       The "PCM Run" was used by Big Rivers to create the CONFIDENTIAL  
6                    electronic file titled "Financial Forecast," which is attached to Big Rivers'  
7                    response to PSC 1-57. There were no additional spreadsheets developed  
8                    based on "PCM Run" for the purpose of Big Rivers' filing in this proceeding.  
9
- 10   **Witness)**     Robert W. Berry

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1 **Item 16)** *Refer to page 20 lines 18-23 of Mr. Berry's Direct Testimony wherein he*  
2 *describes the energy price forecasts and production cost forecasts provided by ACES and*  
3 *relied on by Big Rivers for planning purposes and for its test year revenue requirement*

4 **a.** *Please provide a copy of all analyses, studies, reports, and correspondence*  
5 *that address ACES' review and/or the Company's review of the assumptions*  
6 *and the consistency of those assumptions used by ACES for the market*  
7 *price forecasts and the production cost assumptions provided to ACES*  
8 *and/or used by Big Rivers for capital expenditures and operating expenses*  
9 *in its financial model, e.g. the effects of carbon regulation, CSAPR court*  
10 *rulings, and other assumptions that generally would be expected to affect*  
11 *both market prices and the Company's costs of owning and operating coal-*  
12 *fired capacity.*

13 **b.** *Please provide a copy of the ACES market price projections and all*  
14 *sensitivities, e.g., high and low gas prices, no carbon and carbon. Provide*  
15 *the assumptions and the sources for each assumption used in the base case*  
16 *and each of the sensitivities.*

17

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Response)** Please see Big Rivers' response to PSC 2-14 for an explanation of ACES  
2 energy price forecasts.

3 a. Big Rivers objects to this request on the grounds that it is overly broad and  
4 unduly burdensome. Big Rivers also objects to this request on the grounds  
5 that it seeks information that is irrelevant and not likely to lead to the  
6 discovery of admissible evidence. Notwithstanding these objections, but  
7 without waiving them, ACES power price projections only include what is  
8 known today (CAIR remains in effect and MATS goes in effect in April,  
9 2015). These are the same assumptions used in the production operating  
10 expenses.

11 b. The ACES power price projections are located on the "Prices" tab of the  
12 production cost model runs. There were no sensitivities performed on power  
13 prices other than +/- 10% of the projected price on the production cost model  
14 runs delivered on 5/3/13. These CONFIDENTIAL electronic PCM runs are  
15 attached to Big Rivers' response to AG 1-98.

16

17 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 17)** *Refer to the Cost of Service Study provided in Exhibit Wolfram-3 and*  
2 *Exhibit Wolfram-4. Please provide an electronic version of the Cost of Service Study*  
3 *model with all formulas intact and including all supporting assumptions and electronic*  
4 *workpapers.*

5

6 **Response)** Please see Big Rivers' response to PSC 1-57.

7

8 **Witness)** John Wolfram

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1 **Item 18)** *Please provide a copy of the Big Rivers financial model through the latest*  
2 *date available. Please provide in electronic format with all formulas intact and including*  
3 *all supporting assumptions and electronic workpapers.*

4

5 **Response)** Please refer to the attachment to Big Rivers' response to PSC 2-14 for the  
6 financial model in electronic format through 2027.

7

8 **Witness)** Christopher A. Warren

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 19)** *Refer to page 44 of the Company's Post-Hearing Brief in Case No. 2012-*  
2 *00535 in which it states: "Big Rivers reasonably anticipates that increased off-system sales*  
3 *will benefit its Members and their member-owners when wholesale electricity prices have*  
4 *recovered from their current slump, expected to occur around 2019. This anticipated 2019*  
5 *market recovery is not mere conjecture – it is based on Big Rivers' analysis . . ." Please*  
6 *provide a copy of the Big Rivers' analysis, including all supporting assumptions and*  
7 *calculations. Mr. Berry makes a similar comment in his testimony at page 13 at 22.*

8

9 **Response)** Big Rivers objects to discovery about statements made in a brief filed in a  
10 separate proceeding that were not evidence in that proceeding and are not evidence in this  
11 proceeding. Notwithstanding this objection, but without waiving it, please see Big Rivers'  
12 response to PSC 2-14 and the footnotes to the cited language, as well as the other language in  
13 that section of the brief.

14

15 **Witness)** Counsel

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 20)** *Refer to page 9 lines 15-17 of Mr. Berry's Direct Testimony.*

2 a. *Please provide a copy of the 2014 – 2016 financial plan/economic analysis*  
3 *used to estimate the effects from idling the Coleman and Wilson stations.*  
4 *Please provide this electronically with all formulas intact.*

5 b. *Please provide a copy of all post 2016 financial plan/economic analysis used*  
6 *to estimate the effects from idling the Coleman and Wilson stations. Please*  
7 *provide this electronically with all formulas intact.*

8

9 **Response)**

10 a. Please see Big Rivers' response to PSC 2-14 for the requested information.

11 b. Please see Big Rivers' response to PSC 2-14 for the requested information.

12

13 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 21)** *Please provide the Wilson plant costs included in the base and ECR revenue*  
2 *requirements in the test year by month, including labor and labor-related overheads*  
3 *expense, fixed departmental expense, property tax expense, property insurance expense,*  
4 *depreciation expense, interest expense, each other expense, and the TIER margin. Please*  
5 *provide all support for amounts that were calculated, including, but not limited to,*  
6 *depreciation expense and interest expense.*

7  
8 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
9 unduly burdensome. Notwithstanding these objections, but without waiving them, please see  
10 the attached spreadsheet "Wilson Plant Costs for the Forecasted Test Period" for Wilson  
11 plant costs included in the base and ECR revenue requirements in the test year by month for  
12 labor and labor-related overheads expense, fixed departmental expense, property tax expense,  
13 property insurance expense, depreciation expense, and interest expense. TIER margin is not  
14 budgeted, nor segregated by plant. Additionally, interest expense is not budgeted by plant.  
15 For purposes of this data request, interest expense was allocated based on actual spend per  
16 location. For supporting documentation and calculations, please refer to the attached  
17 spreadsheet "Property Insurance – 2014" and the electronic attachments to Big Rivers'  
18 response to PSC 1-57.



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1 Witness) Jeffrey R. Williams

Attachment for Response to KIUC 1-21  
Wilson Plant Costs  
For the Forecasted Test Period

Type of Filing: Original - ; Updated - ; Revised -

Line No.	DESCRIPTION	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15
1	Labor Expense	132,509	143,227	136,406	145,176	124,714	136,406	145,176	126,968	151,742	124,986	128,950	140,360
2	Fixed Departmental Expense												
3	Property Tax Expense	91,305	91,305	91,305	91,305	91,305	91,305	91,305	91,305	91,305	91,305	91,305	93,010
4	Property Insurance Expense Base	71,707	71,707	71,707	71,707	71,707	71,707	71,707	71,707	71,707	71,707	71,707	75,292
5	Property Insurance Expense ECR	32,250	32,250	32,250	32,250	32,250	32,250	32,250	32,250	32,250	32,250	32,250	33,862
6	Depreciation Expense Base	1,050,893	1,050,893	1,050,924	1,050,924	1,051,082	1,051,204	1,051,204	1,051,204	1,051,478	1,051,502	1,051,502	1,051,533
7	Depreciation Expense ECR	620,143	620,143	620,182	620,314	620,314	620,314	620,314	644,260	644,260	644,260	644,260	644,260
8	Interest Expense Base	1,144,655	1,242,182	1,217,084	1,250,829	1,214,322	1,253,873	1,253,873	1,217,334	1,255,113	1,221,357	1,252,171	1,252,262
9	Interest Expense ECR	480,826	521,794	511,251	525,426	510,091	526,705	526,705	511,356	527,226	513,046	525,990	526,028
10													

**Big Rivers Electric Corporation  
Case No. 2013-00199**

**Attachment for Response to KIUC 1-21  
Property Insurance Calculation**

<b>Property Insurance Premium (FM Global) 2014</b>	<b>3,901,980</b>
--	------------------

Per Statement of Values			Account Number	Distribution of Premium
Reid	91,504,054	2.96%	924.110	115,634
Reid Clean Air	11,712,174	0.38%	924.111	14,801
Station Two	286,573,732	9.28%	143.600	362,145
SII Clean Air	105,048,201	3.40%	143.600	132,750
Green	530,287,418	17.17%	924.140	670,127
Green Clean Air	199,910,524	6.47%	924.141	252,628
Gas Turbine	24,858,749	0.81%	924.130	31,414
Coleman	437,034,921	14.15%	924.120	552,283
Coleman Clean Air	140,184,514	4.54%	924.121	177,152
Wilson	680,919,648	22.05%	924.180	860,482
Wilson Clean Air	306,242,034	9.92%	924.181	387,000
Trans & Hdqtrs	242,207,745	7.84%	924.150	306,079
Trans & Hdqtrs	2,193,969	0.07%	924.160	2,773
Trans & Hdqtrs	29,051,982	0.94%	924.170	36,712
<b>Total 2014</b>	<b>3,087,729,665</b>	<b>100.00%</b>		<b>3,901,980</b>

46,024  
14,763  
71,707  
32,250

**Total 2015**

**4,097,065**

Coleman	0.1415
Coleman Clean Air	0.0454
Wilson	0.2205
Wilson Clean Air	0.0992

579,895      48,325  
186,009      15,501  
903,503      75,292  
406,349      33,862

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 22)** *Please provide the Coleman plant costs included in the base and ECR*  
2 *revenue requirements in the test year by month, including labor and labor-related*  
3 *overheads expense, fixed departmental expense, property tax expense, property insurance*  
4 *expense, depreciation expense, interest expense, each other expense, and the TIER*  
5 *margin. Please provide all support for amounts that were calculated, including, but not*  
6 *limited to, depreciation expense and interest expense.*

7

8 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
9 unduly burdensome. Notwithstanding these objections, but without waiving them, please see  
10 the attached spreadsheet "Coleman Plant Costs for the Forecasted Test Period" for Coleman  
11 plant costs included in the base and ECR revenue requirements in the test year by month for  
12 labor and labor-related overheads expense, fixed departmental expense, property tax expense,  
13 property insurance expense, depreciation expense, and interest expense. TIER margin is not  
14 budgeted, nor segregated by plant. Additionally, interest expense is not budgeted by plant.  
15 For purposes of this data request, interest expense was allocated based on actual spend per  
16 location. A portion of these expenses was excluded from the revenue requirement in the  
17 form of pro forma adjustments. Please refer to Exhibit Wolfram-2, from the direct testimony  
18 of John Wolfram for pro forma adjustments relating to labor and non-labor costs as a result

**BIG RIVERS ELECTRIC CORPORATION**

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1 of the Coleman plant layup. For supporting documentation and calculations, please refer to  
2 the spreadsheet "Property Insurance – 2014" attached to Big Rivers' response to KIUC 1-21  
3 and the electronic attachments to Big Rivers' response to PSC 1-57.

4

5 **Witness)** Jeffrey R. Williams

Attachment for Response to KIUC 1-22  
Coleman Plant Costs  
For the Forecasted Test Period

Type of Filing: Original - ; Updated - ; Revised -

Line No.	DESCRIPTION	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15
1	Labor Expense	973,074	1,048,002	1,100,936	148,174	104,141	114,019	121,427	106,368	127,355	104,689	108,047	116,321
2	Fixed Departmental Expense												
3	Property Tax Expense	39,597	39,597	39,597	39,597	39,597	39,597	39,597	39,597	39,597	39,597	39,597	40,774
4	Property Insurance Expense Base	46,024	46,024	46,024	46,024	46,024	46,024	46,024	46,024	46,024	46,024	46,024	48,325
5	Property Insurance Expense ECR	14,763	14,763	14,763	14,763	14,763	14,763	14,763	14,763	14,763	14,763	14,763	15,501
6	Depreciation Expense Base	261,627	261,657	261,657	261,657	262,309	262,309	262,309	262,339	262,339	262,339	262,370	262,370
7	Depreciation Expense ECR	251,376	251,376	251,418	251,557	251,557	251,557	251,557	312,103	312,103	312,103	312,103	312,103
8	Interest Expense Base	283,422	307,570	301,355	309,711	300,671	310,464	310,464	301,417	310,771	302,413	310,043	310,065
9	Interest Expense ECR	242,309	262,954	257,641	264,784	257,056	265,429	265,429	257,694	265,691	258,546	265,069	265,088
10													

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 23)** *Please provide an annual history of actual property tax expense for the*  
2 *Wilson plant and for the Coleman plant from 2008 through 2012, budget property tax*  
3 *expense for 2013 and 2014, and the amount included in the test year.*

4

5 **Response)** To the extent that this request seeks information prior to the Unwind  
6 Transaction, Big Rivers objects that the request is not reasonably calculated to lead to the  
7 discovery of admissible evidence. Moreover, to the extent that the request seeks information  
8 prior to and including 2010, the request is unduly burdensome because Big Rivers converted  
9 its systems to Oracle, and data from years prior to and including 2010 are not reasonably  
10 accessible. Notwithstanding these objections, but without waiving them, please see the  
11 attached document for an annual history of actual property tax expense for the Wilson plant  
12 and for the Coleman plant from 2010 through 2012, budget property tax expense for 2013  
13 and 2014, and the amount included in the test year.

14

15 **Witness)** Billie J. Richert

Big Rivers Electric Corporation  
Case No. 13-00199

Attachment for Response to KIUC 1-23  
Wilson Coleman Property Tax Expense

Type of Filing: Original - ; Updated - ; Revised -

Line No.	DESCRIPTION	2010 Actual	2011 Actual	2012 Actual	2013 Budget	2014 Budget	02/01/14 - 01/31/15 TEST YEAR
1	Wilson Property Tax Expense	\$ 1,038,678	\$ 1,024,498	\$ 1,000,441	\$ 1,062,633	\$ 1,095,658	\$ 1,097,363
2	Coleman Property Tax Expense	\$ 388,330	\$ 415,783	\$ 419,469	\$ 444,210	\$ 475,164	\$ 476,341

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Attachment for Response to KIUC 1-23

Witness: Billie J. Richert

page 1 of 1



**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 24)** *Please describe all steps the Company has taken and those that it plans to*  
2 *take to reduce the valuation of the Wilson and Coleman plants for property tax purposes.*  
3 *Please describe how the Company factored these steps into the budgeted property tax*  
4 *expense for 2014 and for the test year.*

5

6 **Response)** Big Rivers has taken no steps to reduce the valuation of the Wilson and  
7 Coleman plants for property tax purposes because it does not anticipate a decrease in the  
8 value of the Wilson or Coleman plants.

9

10 **Witness)** Billie J. Richert

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 25)** *Please provide an annual history of actual property insurance expense for*  
2 *the Wilson plant and for the Coleman plant from 2008 through 2012, budget property*  
3 *insurance expense for 2013 and 2014, and the amount included in the test year.*

4

5 **Response)** Please see the attached schedule. Big Rivers incurred no property insurance  
6 expense for the Coleman and Wilson plants prior to the July 2009 unwind transaction in  
7 which Big Rivers regained control of power plant operations.

8

9 **Witness)** Billie J. Richert

**Big Rivers Electric Corporation  
Case No. 2013-00199**

**Attachment for Response to KIUC 1-25  
Property Insurance Expense - Coleman and Wilson Plants  
For the Years 2008-2014**

	2008	2009	Actual 2010	2011	2012	Budget 2013	2014
Coleman	-	201,303	548,412	424,571	552,664	662,567	729,435
Wilson	-	344,267	937,895	726,100	945,166	1,133,123	1,247,482

	Test Year
Coleman	735,514
Wilson	1,257,878

**BIG RIVERS ELECTRIC CORPORATION**

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dated August 19, 2013**

**September 3, 2013**

1 **Item 26)** *Please describe all steps the Company has taken and those that it plans to*  
2 *take to reduce the insurance expense for the Wilson and Coleman plants. Please describe*  
3 *how the Company factored these steps into the budgeted property insurance expense for*  
4 *2014 and for the test year.*

5

6 **Response)** When Big Rivers learned that it might idle a power plant in the future, it  
7 contacted its insurance company to inquire about a reduction of the insurance expense related  
8 to an idled plant. Big Rivers was informed that the idling of a plant would not reduce the  
9 insurance premium related to that plant.

10 In addition to those specific inquiries, Big Rivers has been diligent about reducing the  
11 insurance expense for the Wilson and Coleman plants in the same manner it reduces the  
12 insurance expense for similar assets. Big Rivers' property and casualty insurance  
13 procurement procedures call for a competitive bidding among multiple agents every three  
14 years. When replacing coverage in the intervening years, the agent selected in the three-year  
15 competitive bidding process solicits quotes from multiple insurers in an effort to obtain  
16 coverage at the lowest possible cost each and every year. In addition to this, Big Rivers  
17 works with the property insurer to address loss control recommendations, which are designed

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
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**September 3, 2013**

1 to help reduce risk and in turn reduce premium. These steps are taken each year for all plant  
2 sites in an effort to keep insurance costs down.

3 Big Rivers works closely with the property insurer each year to obtain premium cost  
4 to include in the budget for the following year. Please also see the attachments to Big  
5 Rivers' responses to KIUC 1-25 and KIUC 1-21 for additional information related to the  
6 inclusion of property insurance expense in the budget.

7

8 **Witness)** Billie J. Richert

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 27)** *Refer to page 11 lines 1-21 of Mr. Berry's Direct Testimony. Please provide*  
2 *a copy of all documents, including, but not limited to, correspondence, contracts, and*  
3 *requests for bids between the Company and other parties related to the potential marketing*  
4 *of excess power and/or the sale of the Wilson and Coleman stations.*

5  
6 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
7 unduly burdensome. Big Rivers also objects to this request on the grounds that it seeks  
8 information that is not relevant and is not likely to lead to the discovery of admissible  
9 evidence in this case. Notwithstanding these objections, but without waving them, please see  
10 Big Rivers' response to PSC 2-16.

11

12 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 28)** *Refer to page 14 lines 3-11 of Ms. Richert's Direct Testimony. Please*  
2 *provide the most recent actual balance of the Economic Reserve and the Rural Economic*  
3 *Reserve and the estimated depletion of those reserves by month through the end of the test*  
4 *year under the Company's proposed approach for using the Reserve Funds to temporarily*  
5 *delay the Alcan rate increase and under an alternative approach where the use of the*  
6 *Reserve Funds is limited to their present authorized use to offset increases in fuel and*  
7 *environmental costs.*

8  
9 **Response)** As of July 31, 2013, the balance of the Economic Reserve is \$67.9 million and  
10 the balance of the Rural Economic Reserve is \$65.3 million. See the attached spreadsheet for  
11 the estimated depletion of those reserves by month through the end of the test year under Big  
12 Rivers' proposed approach for using the Reserve Funds to temporarily delay the Alcan rate  
13 increase and under an alternative approach where the use of the Reserve Funds is limited to  
14 their present authorized use to offset increases in fuel and environmental costs.

15  
16 **Witness)** Billie J. Richert

Attachment for Response to KIUC 1-28  
Reserve Fund Balances (In Millions)

	2013 <u>July</u>	2013 <u>August</u>	2013 <u>September</u>	2013 <u>October</u>	2013 <u>November</u>	2013 <u>December</u>	2014 <u>January</u>	2014 <u>February</u>
<b><u>Proposed Approach</u></b>								
Economic Reserve	\$ 67.9	\$ 66.1	\$ 64.2	\$ 62.6	\$ 61.3	\$ 59.8	\$ 56.3	\$ 46.8
Rural Economic Reserve Balance	\$ 65.3	\$ 65.4	\$ 65.5	\$ 65.6	\$ 65.7	\$ 65.8	\$ 65.9	\$ 66.0
<b><u>Current Approach</u></b>								
Economic Reserve	\$ 67.9	\$ 66.1	\$ 64.2	\$ 62.6	\$ 61.3	\$ 59.8	\$ 56.3	\$ 52.7
Rural Economic Reserve Balance	\$ 65.3	\$ 65.4	\$ 65.5	\$ 65.6	\$ 65.7	\$ 65.8	\$ 65.9	\$ 66.0



Attachment for Response to KIUC 1-28  
Reserve Fund Balances (In Millions)

	2014 <u>March</u>	2014 <u>April</u>	2014 <u>May</u>	2014 <u>June</u>	2014 <u>July</u>	2014 <u>August</u>	2014 <u>September</u>	2014 <u>October</u>
<b><u>Proposed Approach</u></b>								
Economic Reserve	\$ 37.7	\$ 29.6	\$ 21.0	\$ 11.0	\$ 0.2	\$ -	\$ -	\$ -
Rural Economic Reserve Balance	\$ 66.1	\$ 66.2	\$ 66.3	\$ 66.4	\$ 66.4	\$ 58.0	\$ 51.1	\$ 45.1
<b><u>Current Approach</u></b>								
Economic Reserve	\$ 49.2	\$ 46.1	\$ 42.6	\$ 38.5	\$ 34.8	\$ 30.7	\$ 26.9	\$ 23.5
Rural Economic Reserve Balance	\$ 66.1	\$ 66.2	\$ 66.3	\$ 66.4	\$ 66.5	\$ 66.6	\$ 66.7	\$ 66.8

Attachment for Response to KIUC 1-28  
Reserve Fund Balances (In Millions)

	2014 <u>November</u>	2014 <u>December</u>	2015 <u>January</u>
<b><u>Proposed Approach</u></b>			
Economic Reserve	\$ -	\$ -	\$ -
Rural Economic Reserve Balance	\$ 38.4	\$ 30.0	\$ 21.4
<b><u>Current Approach</u></b>			
Economic Reserve	\$ 20.1	\$ 16.2	\$ 12.1
Rural Economic Reserve Balance	\$ 66.9	\$ 67.0	\$ 67.1

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 29)** *Please provide the Company's planned capital expenditures by generating*  
2 *unit broken down between MATS, each other major environmental requirement, all other*  
3 *environmental requirements, and all other non-environmental costs by month from*  
4 *January 2013 through the end of the test year.*

5

6 **Response)** Please see the attachment to this response for the planned capital expenditures  
7 by generating unit broken down by MATS, other environmental and all non-environmental  
8 projects, by month, from January 2013 through the end of the test year.

9

10 **Witness)** Robert W. Berry

Attachment for Response to KIUC 1-29  
Planned Capital Expenditures 2013

Project #	Dept	Description	System	Unit Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
COLEMAN																	
BP13C063B	CL		BOIL	C1					150,000								
BP12C049B	CL		BOIL	C1				40,000	20,000								
BP12C050B	CL		BOIL	C1				100,000	109,000								
BP13C066B	CL		BOIL	C1				75,000	100,000								
BP13C067B	CL		BOIL	C1				60,000	100,000								
BP13C068B	CL		BOIL	C1				200,000	200,000								
BP13C069B	CL		BOIL	C1				100,000	100,000								
BP12C055B	CL		BOIL	C1				1,000,000	675,000								
BP13C071B	CL		BOIL	C1					40,000								
BP12C057B	CL		BOIL	C1				20,000	10,000								
BP12C061B	CL		BOIL	C1				250,000	130,000								
BP13C076B	CL		BOIL	C1				200,000	150,000								
BP13C078B	CL		BOIL	C1				350,000	150,000								
BP13C079B	CL		BOIL	C1				200,000	100,000								
BP13C080B	CL		BOIL	C1					1,250,000								
BP13C081B	CL		BOIL	C1				175,000	100,000								
BP13C082B	CL		BOIL	C1				700,000	653,000								
BP11C033B	CL		OTHER	C1					175,000								
BP13C083B	CL		OTHER	C1				100,000	100,000								
BP12C058B	CL		TURB	C1				70,000	70,000								
BP12C060B	CL		TURB	C1					67,000								
BP13C077B	CL		TURB	C1					62,000								
<b>Coleman Unit 1 Total</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>3,640,000</b>	<b>4,511,000</b>	<b>0</b>	<b>0</b>	<b>0</b>					
BP13C016B	CL		FGD	CFGD					75,000								
BP13C039B	CL		FGD	CFGD					160,000								
BP13C040B	CL		FGD	CFGD					90,000								
BP13C041B	CL		FGD	CFGD					285,000								
BP13C039B	CL		FGD	CFGD					160,000								
BP13C040B	CL		FGD	CFGD					90,000								
<b>Coleman FGD Total</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>0</b>					

Attachment for Response to KIUC 1-29  
Planned Capital Expenditures 2013

Project #	Dept	Description	Unit		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
			System	Indicator														
BP13C042B	CL		ENV	CFGD					140,000									
<b>Coleman Environmental Total</b>					0	0	0	0	140,000	0	0	0						
BP13C010B	CL		ASH	CL					140,000									
BP13C006B	CL		BOIL	CL			25,000			25,000		160,000						
BP13C020B	CL		CIRC	CL				225,000										
BP13C021B	CL		CIRC	CL				230,000										
BP13C035B	CL		CIRC	CL					150,000									
BP13C007B	CL		FGD	CL					50,000									
BP13C009B	CL		FUELS	CL					50,000									
BP13C011B	CL		FUELS	CL														
BP13C003B	CL		OTHER	CL	10,000			10,000			10,000							
BP13C004B	CL		OTHER	CL					15,000									
BP13C005B	CL		OTHER	CL		20,000		20,000			20,000							
BP13C008B	CL		OTHER	CL				150,000										
BP13C012B	CL		OTHER	CL		25,000												
BP13C013B	CL		OTHER	CL			10,000											
BP13C014B	CL		OTHER	CL			40,000											
BP13C015B	CL		OTHER	CL				20,000										
BP13C018B	CL		OTHER	CL				60,000										
BP13C019B	CL		OTHER	CL					50,000									
BP13C017B	CL		TURB	CL							78,000							
<b>Coleman Common Total</b>					10,000	45,000	75,000	715,000	315,000	25,000	108,000	160,000						
<b>Total Coleman</b>					10,000	45,000	75,000	4,355,000	5,076,000	25,000	108,000	160,000						
<b>CENTRAL MACHINE SHOP</b>																		
Unassigned	CMS		OTHER	CMS			15,000											
Unassigned	CMS		OTHER	CMS			10,000											
Unassigned	CMS		OTHER	CMS			8,500											
Unassigned	CMS		OTHER	CMS			4,500											
Unassigned	CMS		OTHER	CMS			25,000											
Unassigned	CMS		OTHER	CMS			60,000											
Unassigned	CMS		OTHER	CMS			7,500											
<b>Total CMS:</b>					0	0	130,500	0	0	0	0	0						

Attachment for Response to KIUC 1-29  
Planned Capital Expenditures 2013

Project #	Dept	Description	System	Unit	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
				Indicator													
<b>GREEN</b>																	
Unassigned	Green		BOIL	G1					30,000								
Unassigned	Green		BOIL	G1								150,000					
Unassigned	Green		FGD	G1					45,000								
Unassigned	Green		TURB	G1													
<b>Green Unit 1 Total</b>						0	0	0	0	75,000	0	0	150,000				
Unassigned	Green		ENV	G1					200,000								
<b>Green Unit 1 Environmental Total</b>						0	0	0	0	200,000	0	0	0				
Unassigned	Green		BLGR	G2				125,000									
Unassigned	Green		BOIL	G2													
Unassigned	Green		BOIL	G2													
BP12G016B	Green		BOIL	G2													
BP12G029B	Green		BOIL	G2													
BP12G039B	Green		BOIL	G2													
BP12G042B	Green		BOIL	G2													
BP12G055B	Green		BOIL	G2													
Unassigned	Green		BOIL	G2													
Unassigned	Green		BOIL	G2													
Unassigned	Green		BOIL	G2													
Unassigned	Green		BOIL	G2													
Unassigned	Green		FGD	G2													
Unassigned	Green		OTHER	G2				75,000									
Unassigned	Green		OTHER	G2				75,000									
BP12G021B	Green		PREC	G2													
Unassigned	Green		TURB	G2													
Unassigned	Green		TURB	G2													
BP12G020B	Green		TURB	G2													
BP12G023B	Green		TURB	G2													
BP12G024B	Green		TURB	G2													
Unassigned	Green		TURB	G2													
Unassigned	Green		TURB	G2													
<b>Green Unit 2 Total</b>						0	0	0	275,000	0	0	0	0				
Unassigned	Green		ENV	G2													
<b>Green Unit 2 Environmental Total</b>						0	0	0	0	0	0	0	0				

Attachment for Response to KIUC 1-29  
Planned Capital Expenditures 2013

Project #	Dept	Description	Unit		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
			System	Indicator													
Unassigned	Green		BLGR	GN						150,000							
Unassigned	Green		BLGR	GN							50,000						
Unassigned	Green		BLGR	GN							275,000						
Unassigned	Green		BLGR	GN				300,000									
Unassigned	Green		BOIL	GN	100,000												
Unassigned	Green		BOIL	GN					6,000								
Unassigned	Green		BOIL	GN					6,000								
Unassigned	Green		BOIL	GN						500,000	500,000						
Unassigned	Green		BOIL	GN					175,000								
Unassigned	Green		BOIL	GN							287,500	287,500					
Unassigned	Green		BOIL	GN					60,000								
Unassigned	Green		BOIL	GN						100,000							
Unassigned	Green		BOIL	GN				250,000									
Unassigned	Green		BOIL	GN					50,000								
Unassigned	Green		BOIL	GN					35,000								
Unassigned	Green		BOIL	GN					200,000								
Unassigned	Green		CIRC	GN													
Unassigned	Green		FGD	GN													
Unassigned	Green		FGD	GN													
BP11G077B	Green		FGD	GN													
Unassigned	Green		FGD	GN						200,000							
Unassigned	Green		FGD	GN								50,000					
Unassigned	Green		FGD	GN								50,000					
Unassigned	Green		FGD	GN						5,000							
Unassigned	Green		FUELS	GN							202,000						
Unassigned	Green		FUELS	GN							202,000						
Unassigned	Green		FUELS	GN						90,000							
Unassigned	Green		FUELS	GN						200,000	200,000						
Unassigned	Green		FUELS	GN					25,000								
Unassigned	Green		OTHER	GN	100,000												
Unassigned	Green		OTHER	GN	20,000												
Unassigned	Green		OTHER	GN	50,000												
Unassigned	Green		OTHER	GN						12,000							
Unassigned	Green		OTHER	GN					20,000								
Unassigned	Green		OTHER	GN					40,000								
Unassigned	Green		OTHER	GN					145,000								
Unassigned	Green		OTHER	GN					16,000								

Attachment for Response to KIUC 1-29  
Planned Capital Expenditures 2013

Project #	Dept	Description	Unit		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
			System	Indicator													
Unassigned	Green		OTHER	GN				10,000									
Unassigned	Green		OTHER	GN													
Unassigned	Green		OTHER	GN						15,000							
Unassigned	Green		OTHER	GN								6,000					
Unassigned	Green		OTHER	GN								12,500					
Unassigned	Green		OTHER	GN				3,000									
Unassigned	Green		OTHER	GN			2,500										
Unassigned	Green		SW	GN						20,000							
Unassigned	Green		SW	GN													45,000
Unassigned	Green		SW	GN													15,000
Unassigned	Green		TURB	GN				60,000									
Unassigned	Green		TURB	GN				60,000									
<b>Green Common Total</b>					<b>270,000</b>	<b>0</b>	<b>2,500</b>	<b>904,000</b>	<b>557,000</b>	<b>1,292,000</b>	<b>1,716,500</b>	<b>466,000</b>					
Unassigned	Green		ENV	GN						30,000							
<b>Green Common Environmental Total</b>																	
<b>Total Green</b>					<b>270,000</b>	<b>0</b>	<b>2,500</b>	<b>1,179,000</b>	<b>832,000</b>	<b>1,322,000</b>	<b>1,716,500</b>	<b>616,000</b>					
<b>RD, GT, SII, R/SII, &amp; R/G/SII</b>																	
BP13H003B	SII		BLGR	H0						80,000							
BP13H005B	SII		CIRC	H0							20,000						
BP13H006B	SII		CIRC	H0													
BP13H002B	SII		ENV	H0			30,000										
BP13H004B	SII		SW	H0								150,000					150,000
<b>HMP&amp;L Common Total</b>					<b>0</b>	<b>0</b>	<b>30,000</b>	<b>0</b>	<b>0</b>	<b>80,000</b>	<b>170,000</b>	<b>150,000</b>					
BP13H032B	SII		ENV	H1													
<b>HMP&amp;L Unit 1 Environmental Total</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
BP13H024B	SII		ASH	H2			75,000										
BP13H025B	SII		ASH	H2			450,000										
BP13H031B	SII		ASH	H2						50,000							
BP13H001B	SII		BOIL	H2			1,500,000										
BP13H007B	SII		BOIL	H2		60,000	45,000	395,000									
BP13H008B	SII		BOIL	H2			85,000										
BP13H009B	SII		BOIL	H2			40,000										
BP13H010B	SII		BOIL	H2			150,000										
BP13H012B	SII		BOIL	H2			33,500										
BP13H014B	SII		BOIL	H2			368,000	32,000									



Attachment for Response to KIUC 1-29  
Planned Capital Expenditures 2013

Project #	Dent	Description	System	Unit Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
BP13H015B	SII		BOIL	H2			700,000										
BP13H023B	SII		BOIL	H2			40,000										
BP13H026B	SII		BOIL	H2				300,000									
BP13H027B	SII		BOIL	H2				75,000									
BP13H028B	SII		BOIL	H2				22,000									
BP13H029B	SII		BOIL	H2				55,000									
BP13H030B	SII		BOIL	H2				120,000									
BP13H033B	SII		BOIL	H2													
BP13H034F	SII		BOIL	H2													
BP11H030F	SII		CIRC	H2			45,500	50,000									
BP13H011B	SII		CIRC	H2			500,000										
BP13H022B	SII		FGD	H2			380,000										
BP11H022B	SII		OTHER	H2					100,000								
BP13H013B	SII		PREC	H2			415,000										
BP12H023B	SII		PULV	H2			20,000										
BP13H016B	SII		PULV	H2			60,000										
BP13H017B	SII		SCR	H2	505,000												
BP13H018B	SII		TURB	H2			350,000										
BP13H019B	SII		TURB	H2			1,000,000										
BP13H020B	SII		TURB	H2			100,000										
BP13H021B	SII		TURB	H2			200,000										
<b>HMP&amp;L Unit 2 Total</b>					<b>505,000</b>	<b>60,000</b>	<b>6,557,000</b>	<b>1,049,000</b>	<b>100,000</b>	<b>50,000</b>	<b>0</b>	<b>0</b>					
BP13R001B	REID		BLGR	R1				50,000									
BP13R002B	REID		TURB	R1						400,000							
<b>Reid Unit 1 Total</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>400,000</b>	<b>0</b>	<b>0</b>					
BP13S004B	R/G/SII		FUELS	RGH							400,000						
BP13S007B	R/G/SII		FUELS	RGH						20,000							
BP13S008B	R/G/SII		FUELS	RGH				40,000									
BP13S001B	R/G/SII		OTHER	RGH													
BP13S002B	R/G/SII		OTHER	RGH									15,000				
BP13S003B	R/G/SII		OTHER	RGH						5,000							
BP13S006B	R/G/SII		OTHER	RGH						15,000							
BP13S005B	R/G/SII		SW	RGH						266,000							
<b>Reid/Green/HML&amp;L Shared Total</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>306,000</b>	<b>400,000</b>	<b>15,000</b>					
BP13Q016B	R/SII		ASH	RH													
BP13Q006B	R/SII		BLGR	RH						50,000							

Attachment for Response to KIUC 1-29  
Planned Capital Expenditures 2013

Project #	Dept	Description	Unit		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
			System	Indicator														
BP13Q007B	R/SII		BLGR	RH						70,000								
BP13Q013B	R/SII		BLGR	RH							70,000							
BP13Q017B	R/SII		BLGR	RH														
BP13Q002B	R/SII		BOIL	RH									50,000					
BP13Q004B	R/SII		BOIL	RH							10,000							
BP13Q012B	R/SII		BOIL	RH							65,000							
BP13Q018B	R/SII		CIRC	RH														
BP13Q003B	R/SII		FUELS	RH									45,000					
BP13Q010B	R/SII		FUELS	RH						100,000								
BP13Q001B	R/SII		OTHER	RH						50,000								
BP13Q005B	R/SII		OTHER	RH							25,000							
BP13Q008B	R/SII		OTHER	RH						6,000								
BP13Q009B	R/SII		OTHER	RH						7,000								
BP13Q011B	R/SII		OTHER	RH							50,000							
BP13Q014B	R/SII		OTHER	RH												8,000		
BP13Q015B	R/SII		OTHER	RH												40,000		
BP13Q019B	R/SII		OTHER	RH														
<b>Reid/HMP&amp;L Shared Total</b>					<b>0</b>													
<b>RD, GT, SII, R/SII, &amp; R/G/SII Total</b>					<b>505,000</b>	<b>60,000</b>	<b>6,587,000</b>	<b>1,139,000</b>	<b>100,000</b>	<b>1,119,000</b>	<b>790,000</b>	<b>308,000</b>						
<b>WILSON</b>																		
Unassigned	WL		ASH	WL				75,000										
BP12W024B	WL		ASH	WL														
Unassigned	WL		BLGR	WL					50,000									
Unassigned	WL		BOIL	WL														
Unassigned	WL		BOIL	WL														
Unassigned	WL		BOIL	WL														
Unassigned	WL		BOIL	WL														
Unassigned	WL		BOIL	WL														
Unassigned	WL		BOIL	WL														
BP12W025B	WL		BOIL	WL		20,000	160,000	20,000										
BP12W031B	WL		BOIL	WL														
BP12W034B	WL		BOIL	WL														
BP12W036B	WL		BOIL	WL														
BP11W014B	WL		BOIL	WL														

Attachment for Response to KIUC 1-29  
Planned Capital Expenditures 2013

Project #	Dent	Description	Unit		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
			System	Indicator														
BP11W026B	WL	[REDACTED]	BOIL	WL														
Unassigned	WL		CIRC	WL														
Unassigned	WL		OPER	WL														
Unassigned	WL		OTHER	WL									200,000					
Unassigned	WL		OTHER	WL					10,000				10,000					
Unassigned	WL		OTHER	WL					20,000									
Unassigned	WL		OTHER	WL				40,000				20,000						
Unassigned	WL		OTHER	WL														
Unassigned	WL		OTHER	WL		54,000	66,000											
Unassigned	WL		OTHER	WL														
Unassigned	WL		OTHER	WL														
			<b>Wilson Total</b>			0	74,000	266,000	125,000	50,000	20,000	0	210,000					
Unassigned	WL		[REDACTED]	ENV	WL					75,000	75,000							
		<b>Wilson Environmental Total</b>			0	0	0	0	75,000	75,000	0	0						
		<b>Wilson Total</b>			0	74,000	266,000	125,000	125,000	95,000	0	210,000						
<b>ECP</b>																		
Unassigned	0016	[REDACTED]	ENV	Green													125,000	
Unassigned	0016	[REDACTED]	ENV	HMP&L														
		<b>ECP Total</b>			0	0	0	0	0	0	0	125,000						

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**

KIUC 1-29

Attachment filed as confidential

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 30)** *For each existing and pending environmental requirement listed below,*  
2 *provide a list and description of the control facilities that would need to be constructed in*  
3 *order for Big Rivers to be in compliance with that requirement at each of Big Rivers'*  
4 *generating units. Provide a detailed calculation of all projected capital and annual O&M*  
5 *costs associated with each requirement or control facility. For requirements that are not*  
6 *currently in effect, provide Big Rivers' best estimate based on the requirement as currently*  
7 *proposed:*

- 8 a. *NSR Consent Decree*
- 9 b. *Mercury and Air Toxics Standard ("MATS")*
- 10 c. *Cross-State Air Pollution Rule ("CSAPR")*
- 11 d. *Steam Electric Effluent Limitation Guidelines ("ELGs")*
- 12 e. *Clean Water Act Section 316(b)*
- 13 f. *Coal Combustion Residuals Rule ("CCR")*
- 14

15 **Response)**

- 16 a. Not applicable.
- 17 b. See the Commission's Order in Case No. 2012-00063.
- 18 c. See Big Rivers' response to SC 1-34.

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

- 1        d.        See Big Rivers' response to SC 1-37(d).  
2        e.        See Big Rivers' response to SC 1-37(b).  
3        f.        See Big Rivers' response to SC 1-33.

4

5    **Witness)**     Robert W Berry

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 31)** *Please provide the actual administrative and general expense by RUS*  
2 *account by month from January 2008 through the most recent month for which actual*  
3 *information is available and the budgeted/projected A&G expense by RUS account by*  
4 *month thereafter through the end of the test year.*

5

6 **Response)** To the extent that this request seeks information prior to the Unwind  
7 Transaction, Big Rivers objects that the request is not reasonably calculated to lead to the  
8 discovery of admissible evidence. Moreover, to the extent that the request seeks information  
9 prior to 2010, the request is unduly burdensome because, as a result of Big Rivers'  
10 conversion of its file system to Oracle, the requested data is not reasonably accessible for that  
11 time period. Notwithstanding these objections, but without waiving them, please see the  
12 attached document for actual administrative and general expense by RUS account by month  
13 from January 2010 through July 2013 and the budgeted/projected A&G expense by RUS  
14 account by month thereafter through the end of the test year.

15

16 **Witness)** Billie J. Richert

**Big Rivers Electric Corporation  
Case No. 2013-00199**

**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Jan-10</b>	<b>Actual Feb-10</b>	<b>Actual Mar-10</b>	<b>Actual Apr-10</b>
1	92010000	ADMINISTRATIVE AND GENERAL	711,042	699,059	789,033	693,654.14
2	92010100	ADMIN & GENERAL SALARIES-POWER	101,571	98,308	121,611	96,109.97
3	92010200	ADMIN & GENERAL SALARIES-	69,736	67,608	82,096	65,719.43
4	92010300	ADMIN & GENERAL SALARIES-	10,024	6,674	12,046	8,400
5	92018300	ADMIN AND GENERAL SALARIES-	408,131	441,692	490,845	463,108
6	92110000	OFFICE SUPPLIES AND EXPENSES	287,218	384,261	358,513	338,550
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER	2,360	5,957	4,326	100,332
8	92110200	OFFICE SUPPLIES & EXPENSES-	78,675	69,363	98,650	82,082
9	92110300	OFFICE SUPPLIES & EXPENSES-	2,975	282,521	3,265	1,134
10	92118300	OFFICE SUPPLIES & EXPENSES-	76,305	47,913	55,912	69,846
11	92310000	OUTSIDE SERVICES EMPLOYED	110,735	57,358	63,404	179,809
12	92310100	OUTSIDE SERVICES-POWER SUPPLY	(21,325)	37,089	15,512	36,547
13	92310200	OUTSIDE SERVICES-CUSTOMER		18,650	18,650	8,825
14	92310300	OUTSIDE SERVICES-GENERATION	2,490	4,372	15,362	525
15	92310400	OUTSIDE SERVICES-TRANSMISSION		39,849	340,882	(24,852)
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES			72,238	
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300	OUTSIDE SERVICES-ORACLE	75,290	59,972		85,260
20	92325000	OUTSIDE SERVICES-MISO				102,686
21	92510000	INJURIES & DAMAGES	2,777	2,777	13,428	2,278
22	92517000	INJURIES & DAMAGES-A&G	12,534	12,401	12,401	12,401
23	92610000	EMPLOYEE PENSIONS & BENEFITS				23,360
24	92620000	EMPLOYEE PENSIONS & BENEFITS-	25,051	3,276		30,345

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**Witness : Billie J. Richert**

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**Big Rivers Electric Corporation  
Case No. 2013-00199**

**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

ACCOUNT NUMBER	ACCOUNT NAME	Actual Jan-10	Actual Feb-10	Actual Mar-10	Actual Apr-10
25	92810000 REGULATORY COMMISSION EXPENSES			1,790	465
26	92822500 REGULATORY COMMISSION EXPENSES				
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES				888
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES				
32	93011000 GENERAL ADVERTISING EXPENSES	1,227	51,227		2,453
33	93011200 GENERAL ADVERTISING EXP-		71,500		
34	93020000 MISCELLANEOUS GENERAL EXPENSES				
35	93021000 MISCELLANEOUS GENERAL EXPENSES	80,506	92,633	139,107	91,715
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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**Attachment for Response to KIUC 1-31**

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**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

ACCOUNT NUMBER	ACCOUNT NAME	Actual May-10	Actual Jun-10	Actual Jul-10	Actual Aug-10
1	92010000 ADMINISTRATIVE AND GENERAL	(191,539)	596,912	(414,600)	403,181
2	92010100 ADMIN & GENERAL SALARIES-POWER	103,114	121,684	160,139	98,096
3	92010200 ADMIN & GENERAL SALARIES-	72,118	80,757	66,665	64,932
4	92010300 ADMIN & GENERAL SALARIES-	6,909	8,296	5,649	6,834
5	92018300 ADMIN AND GENERAL SALARIES-	437,230	455,767	628,578	375,912
6	92110000 OFFICE SUPPLIES AND EXPENSES	410,534	429,503	516,356	255,996
7	92110100 OFFICE SUPPLIES & EXPENSES-POWER	10,912	4,959	32,173	3,521
8	92110200 OFFICE SUPPLIES & EXPENSES-	4,794	121,549	87,781	68,659
9	92110300 OFFICE SUPPLIES & EXPENSES-	429	426	2,320	9,406
10	92118300 OFFICE SUPPLIES & EXPENSES-	54,501	61,066	35,277	46,725
11	92310000 OUTSIDE SERVICES EMPLOYED	26,116	51,694	90,997	145,069
12	92310100 OUTSIDE SERVICES-POWER SUPPLY	15,144	43,169	37,130	66,866
13	92310200 OUTSIDE SERVICES-CUSTOMER	9,465	9,325	9,325	9,325
14	92310300 OUTSIDE SERVICES-GENERATION	(29,606)	(740)	2,319	
15	92310400 OUTSIDE SERVICES-TRANSMISSION	(490,187)	26,027	53,595	35,396
16	92310500 OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600 OUTSIDE SERVICES-RATE CASE 2013				
18	92310700 OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300 OUTSIDE SERVICES-ORACLE	95,764	101,760	(107,642)	27,811
20	92325000 OUTSIDE SERVICES-MISO	561,682	49,112		
21	92510000 INJURIES & DAMAGES				
22	92517000 INJURIES & DAMAGES-A&G	12,401	12,401	12,401	12,401
23	92610000 EMPLOYEE PENSIONS & BENEFITS	5,840	5,840	5,840	5,840
24	92620000 EMPLOYEE PENSIONS & BENEFITS-	3,011	123	352	27,501

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**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual May-10</b>	<b>Actual Jun-10</b>	<b>Actual Jul-10</b>	<b>Actual Aug-10</b>
25	92810000 REGULATORY COMMISSION EXPENSES	2,040	538,318	285	485
26	92822500 REGULATORY COMMISSION EXPENSES				
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES	46,048	127,148	47,761	138,658
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES				
32	93011000 GENERAL ADVERTISING EXPENSES	1,227	1,227	893	1,227
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES				
35	93021000 MISCELLANEOUS GENERAL EXPENSES	241,672	118,344	107,498	154,717
36	93021200 MISC GENERAL EXPENSES-CUSTOMER	16,754			
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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**Witness : Billie J. Richert**

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**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

ACCOUNT NUMBER	ACCOUNT NAME	Actual Sep-10	Actual Oct-10	Actual Nov-10	Actual Dec-10
1	92010000 ADMINISTRATIVE AND GENERAL	575,858	417,496	639,501	701,327
2	92010100 ADMIN & GENERAL SALARIES-POWER	132,968	103,944	194,746	222,650
3	92010200 ADMIN & GENERAL SALARIES-	95,721	71,121	88,009	89,527
4	92010300 ADMIN & GENERAL SALARIES-	23,301	26,159	269,223	288,930
5	92018300 ADMIN AND GENERAL SALARIES-	350,485	380,967		
6	92110000 OFFICE SUPPLIES AND EXPENSES	271,485	264,859	171,531	875,883
7	92110100 OFFICE SUPPLIES & EXPENSES-POWER	96,327	7,900	21,496	9,889
8	92110200 OFFICE SUPPLIES & EXPENSES-	55,448	73,667	14,790	257,566
9	92110300 OFFICE SUPPLIES & EXPENSES-	5,442	13,375	53,920	92,410
10	92118300 OFFICE SUPPLIES & EXPENSES-	65,578	38,785	11,793	(99,710)
11	92310000 OUTSIDE SERVICES EMPLOYED	86,177	103,215	373,542	273,726
12	92310100 OUTSIDE SERVICES-POWER SUPPLY	65,869	91,645	47,855	21,476
13	92310200 OUTSIDE SERVICES-CUSTOMER	9,325			5,418
14	92310300 OUTSIDE SERVICES-GENERATION			43,840	54,523
15	92310400 OUTSIDE SERVICES-TRANSMISSION	1,759	(79,176)	1,922	3,861
16	92310500 OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600 OUTSIDE SERVICES-RATE CASE 2013				
18	92310700 OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300 OUTSIDE SERVICES-ORACLE	42,073	31,235		165
20	92325000 OUTSIDE SERVICES-MISO		(49,112)		29,782
21	92510000 INJURIES & DAMAGES			12,401	12,189
22	92517000 INJURIES & DAMAGES-A&G	12,401	12,401		
23	92610000 EMPLOYEE PENSIONS & BENEFITS	5,840	5,840	8,487	(92,419)
24	92620000 EMPLOYEE PENSIONS & BENEFITS-	270	19,847		

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Case No. 2013-00199**

**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Sep-10</b>	<b>Actual Oct-10</b>	<b>Actual Nov-10</b>	<b>Actual Dec-10</b>
25	92810000	REGULATORY COMMISSION EXPENSES	555	300	6,315	(2,165)
26	92822500	REGULATORY COMMISSION EXPENSES				
27	92823000	REGULATORY COMMISSION EXPENSES				
28	92824000	REGULATORY COMMISSION EXPENSES				
29	92825000	REGULATORY COMMISSION EXPENSES	17,864	262,643	185,307	77,369
30	92826000	REGULATORY COMMISSION EXPENSES				
31	93010000	GENERAL ADVERTISING EXPENSES			1,155	28,072
32	93011000	GENERAL ADVERTISING EXPENSES	333			
33	93011200	GENERAL ADVERTISING EXP-				
34	93020000	MISCELLANEOUS GENERAL EXPENSES			104,420	(50,296)
35	93021000	MISCELLANEOUS GENERAL EXPENSES	63,325	130,883		
36	93021200	MISC GENERAL EXPENSES-CUSTOMER				
37	93021400	MISC GENERAL EXPENSES-				
38	93110000	RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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**Witness : Billie J. Richert**

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**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Jan-11</b>	<b>Actual Feb-11</b>	<b>Actual Mar-11</b>	<b>Actual Apr-11</b>
1	92010000	ADMINISTRATIVE AND GENERAL	641,476	640,647	594,868	679,000
2	92010100	ADMIN & GENERAL SALARIES-POWER	200,203	205,786	213,616	231,240
3	92010200	ADMIN & GENERAL SALARIES-	85,537	84,417	74,958	87,440
4	92010300	ADMIN & GENERAL SALARIES-	291,242	355,779	238,208	301,075
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	380,891	689,746	371,579	242,869
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER	23,871	6,771	(14,040)	3,928
8	92110200	OFFICE SUPPLIES & EXPENSES-	5,096	307,720	68,557	5,904
9	92110300	OFFICE SUPPLIES & EXPENSES-	69,210	64,052	91,154	43,262
10	92118300	OFFICE SUPPLIES & EXPENSES-	159			
11	92310000	OUTSIDE SERVICES EMPLOYED	74,679	201,522	(129,908)	67,069
12	92310100	OUTSIDE SERVICES-POWER SUPPLY	92,552	10,340	34,619	95,269
13	92310200	OUTSIDE SERVICES-CUSTOMER	6,616	(4,419)	130,825	9,325
14	92310300	OUTSIDE SERVICES-GENERATION				4,196
15	92310400	OUTSIDE SERVICES-TRANSMISSION			19	
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300	OUTSIDE SERVICES-ORACLE				
20	92325000	OUTSIDE SERVICES-MISO			(28,322)	1,016
21	92510000	INJURIES & DAMAGES	14,004	14,219	13,541	13,880
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	5,599	2,131	(1,995)	66,670
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

**Case No. 2013-00199**

**Attachment for Response to KIUC 1-31**

**Witness : Billie J. Richert**

**Big Rivers Electric Corporation  
Case No. 2013-00199**

**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Jan-11</b>	<b>Actual Feb-11</b>	<b>Actual Mar-11</b>	<b>Actual Apr-11</b>
25	92810000 REGULATORY COMMISSION EXPENSES		367	15,178	2,151
26	92822500 REGULATORY COMMISSION EXPENSES		2,532	384,979	15,157
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES	44		7,681	9,500
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	89,450	84,416	80,498	78,637
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-		2,820		
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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**Witness : Billie J. Richert**

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**Big Rivers Electric Corporation  
Case No. 2013-00199**

**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual May-11</b>	<b>Actual Jun-11</b>	<b>Actual Jul-11</b>	<b>Actual Aug-11</b>
1	92010000	ADMINISTRATIVE AND GENERAL	604,284	541,983	539,595	616,167
2	92010100	ADMIN & GENERAL SALARIES-POWER	201,503	189,116	185,242	224,470
3	92010200	ADMIN & GENERAL SALARIES-	77,277	62,961	68,749	86,716
4	92010300	ADMIN & GENERAL SALARIES-	264,776	257,978	257,613	302,173
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	507,409	169,371	406,506	(363,719)
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER	2,236	5,061	(4,578)	7,792
8	92110200	OFFICE SUPPLIES & EXPENSES-	(27,087)	149,539	105,545	63,489
9	92110300	OFFICE SUPPLIES & EXPENSES-	43,379	37,065	40,524	56,344
10	92118300	OFFICE SUPPLIES & EXPENSES-				
11	92310000	OUTSIDE SERVICES EMPLOYED	242,618	45,527	17,925	71,645
12	92310100	OUTSIDE SERVICES-POWER SUPPLY	(118,628)	1,232	10,406	21,957
13	92310200	OUTSIDE SERVICES-CUSTOMER	(108,081)		27,325	
14	92310300	OUTSIDE SERVICES-GENERATION	13,653	6,978		9,936
15	92310400	OUTSIDE SERVICES-TRANSMISSION	20,015	72,828	9,567	3,244
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300	OUTSIDE SERVICES-ORACLE	(60)	60		
20	92325000	OUTSIDE SERVICES-MISO	27,306			
21	92510000	INJURIES & DAMAGES	13,880	13,880	13,880	13,880
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	5,750	1,200	29,800	1,192
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

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Case No. 2013-00199**

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Administrative and General Expense by Month**

<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual May-11</b>	<b>Actual Jun-11</b>	<b>Actual Jul-11</b>	<b>Actual Aug-11</b>
25	92810000 REGULATORY COMMISSION EXPENSES	(15,254)	684,865		
26	92822500 REGULATORY COMMISSION EXPENSES	216,433	325,494	679,956	104,332
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES	55,289	1,300	1,150	1,750
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-	71,500			
34	93020000 MISCELLANEOUS GENERAL EXPENSES	99,548	158,985	124,508	129,317
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Sep-11</b>	<b>Actual Oct-11</b>	<b>Actual Nov-11</b>	<b>Actual Dec-11</b>
1	92010000	ADMINISTRATIVE AND GENERAL	567,335	531,220	560,635	747,624
2	92010100	ADMIN & GENERAL SALARIES-POWER	186,078	186,772	196,058	266,621
3	92010200	ADMIN & GENERAL SALARIES-	78,960	76,249	73,940	105,607
4	92010300	ADMIN & GENERAL SALARIES-	275,574	288,370	270,776	318,430
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	936,399	339,776	(148,727)	441,072
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER	7,916	667	34,159	10,177
8	92110200	OFFICE SUPPLIES & EXPENSES-	68,152	51,641	57,679	190,676
9	92110300	OFFICE SUPPLIES & EXPENSES-	47,705	82,699	69,420	150,239
10	92118300	OFFICE SUPPLIES & EXPENSES-				
11	92310000	OUTSIDE SERVICES EMPLOYED	117,725	80,365	104,124	149,323
12	92310100	OUTSIDE SERVICES-POWER SUPPLY	3,860	28,941	(22,141)	330
13	92310200	OUTSIDE SERVICES-CUSTOMER		9,000		54,000
14	92310300	OUTSIDE SERVICES-GENERATION	14,734	9,928	53,904	22,312
15	92310400	OUTSIDE SERVICES-TRANSMISSION	4,514	9,336	4,672	1,722
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300	OUTSIDE SERVICES-ORACLE				
20	92325000	OUTSIDE SERVICES-MISO				
21	92510000	INJURIES & DAMAGES	14,493	32,015	15,869	40,600
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	1,200	18,231	(15,831)	95,814
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Sep-11</b>	<b>Actual Oct-11</b>	<b>Actual Nov-11</b>	<b>Actual Dec-11</b>
25	92810000 REGULATORY COMMISSION EXPENSES	4,125			1,500
26	92822500 REGULATORY COMMISSION EXPENSES	14,499	17,997	15,916	77,386
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES	450	1,775	2,500	3,200
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	93,843	126,344	541,682	177,724
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER			16,791	
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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Administrative and General Expense by Month**

<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Jan-12</b>	<b>Actual Feb-12</b>	<b>Actual Mar-12</b>	<b>Actual Apr-12</b>
1	92010000 ADMINISTRATIVE AND GENERAL	703,190	563,499	597,763	569,185
2	92010100 ADMIN & GENERAL SALARIES-POWER	223,066	176,823	192,375	175,060
3	92010200 ADMIN & GENERAL SALARIES-	88,005	74,793	83,564	69,433
4	92010300 ADMIN & GENERAL SALARIES-	325,480	279,112	299,544	313,732
5	92018300 ADMIN AND GENERAL SALARIES-				
6	92110000 OFFICE SUPPLIES AND EXPENSES	243,182	440,064	652,870	256,046
7	92110100 OFFICE SUPPLIES & EXPENSES-POWER	5,436	9,156	4,581	2,298
8	92110200 OFFICE SUPPLIES & EXPENSES-	92,357	61,710	81,153	58,953
9	92110300 OFFICE SUPPLIES & EXPENSES-	31,688	92,035	58,445	67,867
10	92118300 OFFICE SUPPLIES & EXPENSES-				
11	92310000 OUTSIDE SERVICES EMPLOYED	62,818	142,975	110,875	64,350
12	92310100 OUTSIDE SERVICES-POWER SUPPLY	41,748	220	1,403	683
13	92310200 OUTSIDE SERVICES-CUSTOMER	(18,000)			42,414
14	92310300 OUTSIDE SERVICES-GENERATION	4,237	2,178	7,617	1,926
15	92310400 OUTSIDE SERVICES-TRANSMISSION	2,537	1,917	2,631	26,157
16	92310500 OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600 OUTSIDE SERVICES-RATE CASE 2013				
18	92310700 OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300 OUTSIDE SERVICES-ORACLE				
20	92325000 OUTSIDE SERVICES-MISO				
21	92510000 INJURIES & DAMAGES	14,185	15,223	14,819	14,061
22	92517000 INJURIES & DAMAGES-A&G				
23	92610000 EMPLOYEE PENSIONS & BENEFITS	35,561	20,542	15,638	15,802
24	92620000 EMPLOYEE PENSIONS & BENEFITS-				

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Jan-12</b>	<b>Actual Feb-12</b>	<b>Actual Mar-12</b>	<b>Actual Apr-12</b>
25	92810000 REGULATORY COMMISSION EXPENSES	(1,000)	1,000		
26	92822500 REGULATORY COMMISSION EXPENSES	24,499	57,827	52,216	15,512
27	92823000 REGULATORY COMMISSION EXPENSES	16,878	25,314	91,848	41,731
28	92824000 REGULATORY COMMISSION EXPENSES	8,070	7,820	525	3,741
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES	150	(535)	8,583	1,100
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-			121,500	
34	93020000 MISCELLANEOUS GENERAL EXPENSES	122,017	147,595	178,443	138,337
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual May-12</b>	<b>Actual Jun-12</b>	<b>Actual Jul-12</b>	<b>Actual Aug-12</b>
1	92010000 ADMINISTRATIVE AND GENERAL	657,288	577,228	558,032	596,109
2	92010100 ADMIN & GENERAL SALARIES-POWER	192,620	209,958	208,056	232,218
3	92010200 ADMIN & GENERAL SALARIES-	80,172	77,866	74,569	87,595
4	92010300 ADMIN & GENERAL SALARIES-	312,727	301,389	281,759	330,588
5	92018300 ADMIN AND GENERAL SALARIES-				
6	92110000 OFFICE SUPPLIES AND EXPENSES	257,078	268,271	317,269	351,799
7	92110100 OFFICE SUPPLIES & EXPENSES-POWER	5,121	5,912	6,827	3,130
8	92110200 OFFICE SUPPLIES & EXPENSES-	51,401	109,211	60,308	74,783
9	92110300 OFFICE SUPPLIES & EXPENSES-	11,785	32,284	69,927	80,195
10	92118300 OFFICE SUPPLIES & EXPENSES-				
11	92310000 OUTSIDE SERVICES EMPLOYED	92,274	81,571	130,111	125,248
12	92310100 OUTSIDE SERVICES-POWER SUPPLY	2,550	1,593		35,097
13	92310200 OUTSIDE SERVICES-CUSTOMER		24,414		
14	92310300 OUTSIDE SERVICES-GENERATION	24,003	23,436	6,523	29,716
15	92310400 OUTSIDE SERVICES-TRANSMISSION	1,807	2,654	7,722	5,626
16	92310500 OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600 OUTSIDE SERVICES-RATE CASE 2013			1,951	4,325
18	92310700 OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300 OUTSIDE SERVICES-ORACLE				
20	92325000 OUTSIDE SERVICES-MISO				
21	92510000 INJURIES & DAMAGES	14,742	14,423	15,004	14,061
22	92517000 INJURIES & DAMAGES-A&G				
23	92610000 EMPLOYEE PENSIONS & BENEFITS	15,311	44,555	25,614	71,641
24	92620000 EMPLOYEE PENSIONS & BENEFITS-				

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual May-12</b>	<b>Actual Jun-12</b>	<b>Actual Jul-12</b>	<b>Actual Aug-12</b>
25	92810000 REGULATORY COMMISSION EXPENSES		809,623	68	
26	92822500 REGULATORY COMMISSION EXPENSES	9,701	22,752	22,326	19,528
27	92823000 REGULATORY COMMISSION EXPENSES	84,623	118,390	89,549	300,337
28	92824000 REGULATORY COMMISSION EXPENSES		2,260	537	1,288
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES	1,800	250	8,265	925
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	107,424	526,377	119,137	109,395
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER		14,933		
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Sep-12</b>	<b>Actual Oct-12</b>	<b>Actual Nov-12</b>	<b>Actual Dec-12</b>
1	92010000	ADMINISTRATIVE AND GENERAL	541,429	578,660	562,096	731,956
2	92010100	ADMIN & GENERAL SALARIES-POWER	234,580	219,756	199,289	235,603
3	92010200	ADMIN & GENERAL SALARIES-	85,329	88,154	68,997	88,074
4	92010300	ADMIN & GENERAL SALARIES-	301,271	312,036	293,713	335,939
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	255,948	260,239	253,484	379,324
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER	3,679	36,279	7,793	7,857
8	92110200	OFFICE SUPPLIES & EXPENSES-	65,356	62,463	58,153	206,959
9	92110300	OFFICE SUPPLIES & EXPENSES-	28,279	58,969	44,435	54,227
10	92118300	OFFICE SUPPLIES & EXPENSES-				
11	92310000	OUTSIDE SERVICES EMPLOYED	150,430	79,405	162,553	48,085
12	92310100	OUTSIDE SERVICES-POWER SUPPLY	6,792	158,504	(809)	2,424
13	92310200	OUTSIDE SERVICES-CUSTOMER	24,414	1,155		24,414
14	92310300	OUTSIDE SERVICES-GENERATION	26,870	65,993	8,529	46,566
15	92310400	OUTSIDE SERVICES-TRANSMISSION	844	1,703	2,790	17,073
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013	15,974	(22,250)		
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES			42,821	21,761
19	92318300	OUTSIDE SERVICES-ORACLE				
20	92325000	OUTSIDE SERVICES-MISO				
21	92510000	INJURIES & DAMAGES	15,189	14,061	16,452	13,913
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	124,122	75,404	279,908	266,181
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual Sep-12</b>	<b>Actual Oct-12</b>	<b>Actual Nov-12</b>	<b>Actual Dec-12</b>
25	92810000 REGULATORY COMMISSION EXPENSES	4,990	119	1,700	952
26	92822500 REGULATORY COMMISSION EXPENSES	50,694	13,424	4,088	302
27	92823000 REGULATORY COMMISSION EXPENSES		(768,669)		
28	92824000 REGULATORY COMMISSION EXPENSES	2,395	1,345	880	
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES	530	17,479	133	2,078
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	168,209	76,861	90,421	138,197
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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1	92010000	ADMINISTRATIVE AND GENERAL	618,692	639,529	574,249	589,996
2	92010100	ADMIN & GENERAL SALARIES-POWER	183,825	188,590	188,724	175,480
3	92010200	ADMIN & GENERAL SALARIES-	78,424	70,357	73,884	82,932
4	92010300	ADMIN & GENERAL SALARIES-	310,246	315,624	300,149	313,508
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	77,993	806,495	457,985	291,684
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER	3,531	3,899	7,843	56
8	92110200	OFFICE SUPPLIES & EXPENSES-	77,397	76,057	56,631	64,456
9	92110300	OFFICE SUPPLIES & EXPENSES-	65,697	59,988	61,477	76,564
10	92118300	OFFICE SUPPLIES & EXPENSES-				
11	92310000	OUTSIDE SERVICES EMPLOYED	120,018	86,363	194,346	172,786
12	92310100	OUTSIDE SERVICES-POWER SUPPLY	858	5,978	22,305	24,779
13	92310200	OUTSIDE SERVICES-CUSTOMER				24,414
14	92310300	OUTSIDE SERVICES-GENERATION	26,936	12,763	15,153	20,006
15	92310400	OUTSIDE SERVICES-TRANSMISSION	3,759	12,471		4,459
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES	21,761	19,655	21,761	21,059
19	92318300	OUTSIDE SERVICES-ORACLE				
20	92325000	OUTSIDE SERVICES-MISO				
21	92510000	INJURIES & DAMAGES	14,768	16,540	39,222	21,569
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	53,897	36,395	48,484	30,066
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

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25	92810000 REGULATORY COMMISSION EXPENSES	1,275		3,115	5,089
26	92822500 REGULATORY COMMISSION EXPENSES	1,075	2,306	391	
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES	1,067	816	680	1,516
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				20,041
31	93010000 GENERAL ADVERTISING EXPENSES	8,000	121,500	1,500	7,000
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	81,472	160,808	144,818	83,507
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	161

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	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual May-13</b>	<b>Actual Jun-13</b>	<b>Actual Jul-13</b>	<b>Budget Aug-13</b>
1	92010000	ADMINISTRATIVE AND GENERAL	588,589	582,352	595,449	969,444
2	92010100	ADMIN & GENERAL SALARIES-POWER	180,660	170,808	168,884	
3	92010200	ADMIN & GENERAL SALARIES-	79,627	67,611	73,529	
4	92010300	ADMIN & GENERAL SALARIES-	311,561	291,028	284,447	349,568
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	255,708	236,161	293,928	540,565
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER	4,236	8,517	25,705	
8	92110200	OFFICE SUPPLIES & EXPENSES-	66,633	62,207	61,149	
9	92110300	OFFICE SUPPLIES & EXPENSES-	45,648	32,102	74,228	55,415
10	92118300	OFFICE SUPPLIES & EXPENSES-				
11	92310000	OUTSIDE SERVICES EMPLOYED	57,674	128,907	74,391	217,565
12	92310100	OUTSIDE SERVICES-POWER SUPPLY	62,453	20,957	5,334	
13	92310200	OUTSIDE SERVICES-CUSTOMER			24,414	
14	92310300	OUTSIDE SERVICES-GENERATION	47,806	13,200	12,647	
15	92310400	OUTSIDE SERVICES-TRANSMISSION	14,664		5,582	
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES	21,761	21,059	21,761	
19	92318300	OUTSIDE SERVICES-ORACLE				
20	92325000	OUTSIDE SERVICES-MISO				
21	92510000	INJURIES & DAMAGES	15,834	16,214	14,633	
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	57,183	40,859	34,166	11,523
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

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**Attachment for Response to KIUC 1-31  
Administrative and General Expense by Month**

<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Actual May-13</b>	<b>Actual Jun-13</b>	<b>Actual Jul-13</b>	<b>Budget Aug-13</b>
25	92810000 REGULATORY COMMISSION EXPENSES	510		1,037	
26	92822500 REGULATORY COMMISSION EXPENSES	66			
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES	306	170	493	
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES	24,937	294	12,984	
31	93010000 GENERAL ADVERTISING EXPENSES				
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	176,414	173,966	351,843	27,252
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL	161	161	161	

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Administrative and General Expense by Month**

	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget Sep-13</b>	<b>Budget Oct-13</b>	<b>Budget Nov-13</b>	<b>Budget Dec-13</b>
1	92010000	ADMINISTRATIVE AND GENERAL	841,047	996,531	829,411	841,146
2	92010100	ADMIN & GENERAL SALARIES-POWER				
3	92010200	ADMIN & GENERAL SALARIES-				
4	92010300	ADMIN & GENERAL SALARIES-	303,209	358,980	298,778	271,534
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	509,018	550,566	466,113	662,028
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER				
8	92110200	OFFICE SUPPLIES & EXPENSES-				
9	92110300	OFFICE SUPPLIES & EXPENSES-	66,477	59,956	61,996	65,048
10	92118300	OFFICE SUPPLIES & EXPENSES-				
11	92310000	OUTSIDE SERVICES EMPLOYED	190,318	163,526	123,623	161,797
12	92310100	OUTSIDE SERVICES-POWER SUPPLY				
13	92310200	OUTSIDE SERVICES-CUSTOMER				
14	92310300	OUTSIDE SERVICES-GENERATION				
15	92310400	OUTSIDE SERVICES-TRANSMISSION				
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300	OUTSIDE SERVICES-ORACLE				
20	92325000	OUTSIDE SERVICES-MISO				
21	92510000	INJURIES & DAMAGES				
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	6,122	16,170	5,072	6,722
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

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Administrative and General Expense by Month**

<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget Sep-13</b>	<b>Budget Oct-13</b>	<b>Budget Nov-13</b>	<b>Budget Dec-13</b>
25	92810000 REGULATORY COMMISSION EXPENSES				
26	92822500 REGULATORY COMMISSION EXPENSES				
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES				
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	33,490	28,346	25,512	37,369
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL				

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**Attachment for Response to KIUC 1-31  
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	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget Jan-14</b>	<b>Budget Feb-14</b>	<b>Budget Mar-14</b>	<b>Budget Apr-14</b>
1	92010000	ADMINISTRATIVE AND GENERAL	894,535	864,517	930,556	888,531
2	92010100	ADMIN & GENERAL SALARIES-POWER				
3	92010200	ADMIN & GENERAL SALARIES-				
4	92010300	ADMIN & GENERAL SALARIES-	285,801	276,210	297,310	283,883
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	568,794	552,889	1,070,609	572,887
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER				
8	92110200	OFFICE SUPPLIES & EXPENSES-				
9	92110300	OFFICE SUPPLIES & EXPENSES-	47,994	44,587	43,093	51,913
10	92118300	OFFICE SUPPLIES & EXPENSES-				
11	92310000	OUTSIDE SERVICES EMPLOYED	167,657	138,939	219,609	173,450
12	92310100	OUTSIDE SERVICES-POWER SUPPLY				
13	92310200	OUTSIDE SERVICES-CUSTOMER				
14	92310300	OUTSIDE SERVICES-GENERATION				
15	92310400	OUTSIDE SERVICES-TRANSMISSION				
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300	OUTSIDE SERVICES-ORACLE				
20	92325000	OUTSIDE SERVICES-MISO				
21	92510000	INJURIES & DAMAGES				
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	11,903	4,565	9,633	9,374
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget Jan-14</b>	<b>Budget Feb-14</b>	<b>Budget Mar-14</b>	<b>Budget Apr-14</b>
25	92810000 REGULATORY COMMISSION EXPENSES				
26	92822500 REGULATORY COMMISSION EXPENSES				
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES				
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	33,000	25,325	37,673	32,393
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL				

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget May-14</b>	<b>Budget Jun-14</b>	<b>Budget Jul-14</b>	<b>Budget Aug-14</b>
1	92010000 ADMINISTRATIVE AND GENERAL	933,683	808,795	880,160	933,683
2	92010100 ADMIN & GENERAL SALARIES-POWER				
3	92010200 ADMIN & GENERAL SALARIES-				
4	92010300 ADMIN & GENERAL SALARIES-	253,556	219,641	239,021	253,556
5	92018300 ADMIN AND GENERAL SALARIES-				
6	92110000 OFFICE SUPPLIES AND EXPENSES	631,143	743,940	579,049	578,883
7	92110100 OFFICE SUPPLIES & EXPENSES-POWER				
8	92110200 OFFICE SUPPLIES & EXPENSES-				
9	92110300 OFFICE SUPPLIES & EXPENSES-	54,347	46,254	46,777	44,501
10	92118300 OFFICE SUPPLIES & EXPENSES-				
11	92310000 OUTSIDE SERVICES EMPLOYED	295,617	616,127	135,605	196,009
12	92310100 OUTSIDE SERVICES-POWER SUPPLY				
13	92310200 OUTSIDE SERVICES-CUSTOMER				
14	92310300 OUTSIDE SERVICES-GENERATION				
15	92310400 OUTSIDE SERVICES-TRANSMISSION				
16	92310500 OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600 OUTSIDE SERVICES-RATE CASE 2013				
18	92310700 OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300 OUTSIDE SERVICES-ORACLE				
20	92325000 OUTSIDE SERVICES-MISO				
21	92510000 INJURIES & DAMAGES				
22	92517000 INJURIES & DAMAGES-A&G				
23	92610000 EMPLOYEE PENSIONS & BENEFITS	5,479	7,760	6,437	8,056
24	92620000 EMPLOYEE PENSIONS & BENEFITS-				

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Administrative and General Expense by Month**

<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget May-14</b>	<b>Budget Jun-14</b>	<b>Budget Jul-14</b>	<b>Budget Aug-14</b>
25	92810000 REGULATORY COMMISSION EXPENSES				
26	92822500 REGULATORY COMMISSION EXPENSES				
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES				
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	162,041	154,548	23,521	21,969
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL				

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	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget Sep-14</b>	<b>Budget Oct-14</b>	<b>Budget Nov-14</b>	<b>Budget Dec-14</b>
1	92010000	ADMINISTRATIVE AND GENERAL	809,543	957,589	796,999	820,790
2	92010100	ADMIN & GENERAL SALARIES-POWER				
3	92010200	ADMIN & GENERAL SALARIES-				
4	92010300	ADMIN & GENERAL SALARIES-	219,830	260,273	216,625	223,091
5	92018300	ADMIN AND GENERAL SALARIES-				
6	92110000	OFFICE SUPPLIES AND EXPENSES	556,725	598,920	511,931	716,853
7	92110100	OFFICE SUPPLIES & EXPENSES-POWER				
8	92110200	OFFICE SUPPLIES & EXPENSES-				
9	92110300	OFFICE SUPPLIES & EXPENSES-	55,596	49,132	51,302	66,145
10	92118300	OFFICE SUPPLIES & EXPENSES-				
11	92310000	OUTSIDE SERVICES EMPLOYED	179,712	145,291	125,855	17,305
12	92310100	OUTSIDE SERVICES-POWER SUPPLY				
13	92310200	OUTSIDE SERVICES-CUSTOMER				
14	92310300	OUTSIDE SERVICES-GENERATION				
15	92310400	OUTSIDE SERVICES-TRANSMISSION				
16	92310500	OUTSIDE SERVICES-HMPL EXPENSES				
17	92310600	OUTSIDE SERVICES-RATE CASE 2013				
18	92310700	OUTSIDE SERVICES-AMORT PROF FEES				
19	92318300	OUTSIDE SERVICES-ORACLE				
20	92325000	OUTSIDE SERVICES-MISO				
21	92510000	INJURIES & DAMAGES				
22	92517000	INJURIES & DAMAGES-A&G				
23	92610000	EMPLOYEE PENSIONS & BENEFITS	5,655	16,309	5,223	5,613
24	92620000	EMPLOYEE PENSIONS & BENEFITS-				

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget Sep-14</b>	<b>Budget Oct-14</b>	<b>Budget Nov-14</b>	<b>Budget Dec-14</b>
25	92810000 REGULATORY COMMISSION EXPENSES				
26	92822500 REGULATORY COMMISSION EXPENSES				
27	92823000 REGULATORY COMMISSION EXPENSES				
28	92824000 REGULATORY COMMISSION EXPENSES				
29	92825000 REGULATORY COMMISSION EXPENSES				
30	92826000 REGULATORY COMMISSION EXPENSES				
31	93010000 GENERAL ADVERTISING EXPENSES				
32	93011000 GENERAL ADVERTISING EXPENSES				
33	93011200 GENERAL ADVERTISING EXP-				
34	93020000 MISCELLANEOUS GENERAL EXPENSES	34,304	27,584	24,503	44,403
35	93021000 MISCELLANEOUS GENERAL EXPENSES				
36	93021200 MISC GENERAL EXPENSES-CUSTOMER				
37	93021400 MISC GENERAL EXPENSES-				
38	93110000 RENTS-ADMINISTRATIVE & GENERAL				

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<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget Jan-15</b>
1	92010000 ADMINISTRATIVE AND GENERAL	904,743
2	92010100 ADMIN & GENERAL SALARIES-POWER	
3	92010200 ADMIN & GENERAL SALARIES-	
4	92010300 ADMIN & GENERAL SALARIES-	245,542
5	92018300 ADMIN AND GENERAL SALARIES-	
6	92110000 OFFICE SUPPLIES AND EXPENSES	586,993
7	92110100 OFFICE SUPPLIES & EXPENSES-POWER	
8	92110200 OFFICE SUPPLIES & EXPENSES-	
9	92110300 OFFICE SUPPLIES & EXPENSES-	49,150
10	92118300 OFFICE SUPPLIES & EXPENSES-	
11	92310000 OUTSIDE SERVICES EMPLOYED	166,330
12	92310100 OUTSIDE SERVICES-POWER SUPPLY	
13	92310200 OUTSIDE SERVICES-CUSTOMER	
14	92310300 OUTSIDE SERVICES-GENERATION	
15	92310400 OUTSIDE SERVICES-TRANSMISSION	
16	92310500 OUTSIDE SERVICES-HMPL EXPENSES	
17	92310600 OUTSIDE SERVICES-RATE CASE 2013	
18	92310700 OUTSIDE SERVICES-AMORT PROF FEES	
19	92318300 OUTSIDE SERVICES-ORACLE	
20	92325000 OUTSIDE SERVICES-MISO	
21	92510000 INJURIES & DAMAGES	
22	92517000 INJURIES & DAMAGES-A&G	
23	92610000 EMPLOYEE PENSIONS & BENEFITS	9,828
24	92620000 EMPLOYEE PENSIONS & BENEFITS-	

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	<b>ACCOUNT NUMBER</b>	<b>ACCOUNT NAME</b>	<b>Budget Jan-15</b>
25	92810000	REGULATORY COMMISSION EXPENSES	
26	92822500	REGULATORY COMMISSION EXPENSES	
27	92823000	REGULATORY COMMISSION EXPENSES	
28	92824000	REGULATORY COMMISSION EXPENSES	
29	92825000	REGULATORY COMMISSION EXPENSES	
30	92826000	REGULATORY COMMISSION EXPENSES	
31	93010000	GENERAL ADVERTISING EXPENSES	
32	93011000	GENERAL ADVERTISING EXPENSES	
33	93011200	GENERAL ADVERTISING EXP-	
34	93020000	MISCELLANEOUS GENERAL EXPENSES	33,285
35	93021000	MISCELLANEOUS GENERAL EXPENSES	
36	93021200	MISC GENERAL EXPENSES-CUSTOMER	
37	93021400	MISC GENERAL EXPENSES-	
38	93110000	RENTS-ADMINISTRATIVE & GENERAL	

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**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 32)** *Please indicate whether the Company reduced the amount of Administrative*  
2 *and General expense included in the Company's test year revenue requirement as a result*  
3 *of idling the Wilson and Coleman stations. If so, please describe and quantify these*  
4 *reductions for the expenses included in each RUS account and provide all assumptions,*  
5 *calculations and electronic workpapers with formulas intact. If not, then please explain*  
6 *why the Company has not done so.*

7

8 **Response)** The forecasted test period reflects the idling of Wilson Station in 2013, as well  
9 as the idling of Coleman Station in February 2014. Please refer to the Direct Testimony of  
10 John Wolfram, Exhibit Wolfram-2, Schedule 1.10 ("Non-Recurring Labor Related to Plant  
11 Layup (Coleman)") for details relating to the reduction of Administrative and General  
12 expenses included in the test year revenue requirement as a result of idling Coleman station.  
13 Please refer to Tab No. 47 of the Application for details of this pro forma adjustment by RUS  
14 account. As it relates to the Wilson plant, these expenses were already factored out of the  
15 forecast, and therefore pro forma adjustments are not necessary as these expenses are not  
16 included in the revenue requirement.

17

18 **Witness)** Billie J. Richert



**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

- 1 **Item 33)**      *Refer to page 12 lines 22 through 23 of Ms. Barron's Direct Testimony*  
2 *wherein she states: "A price elasticity coefficient of -0.21 indicates that a 1% change in*  
3 *average price causes a .21% change in average household consumption."*
- 4            *a.      Please confirm this means that if the average residential customer using*  
5 *1300 kWh per month faces an increase of 72% in their bills, that the*  
6 *customer will reduce its usage by 15.12% (0.21 times 72%) or 197 kWh (.21*  
7 *times 72% times 1300 kWh), which would reduce the average residential*  
8 *customer usage to approximately 1100 kWh per month. Please explain your*  
9 *response.*
- 10           *b.      Please quantify the effect on average consumption per residential customer*  
11 *per month and the average residential customer's bill per month that this*  
12 *price elasticity will have if the Company receives the entirety of its requests*  
13 *in the Century rate case and in this proceeding.*
- 14           *c.      Please provide all analysis, data, workpapers and other documents related to*  
15 *Big Rivers' elasticity of demand study.*

16

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Response)**

- 2 a. Confirmed. All other factors being equal (i.e., no changes in any of the other  
3 factors that impact energy consumption), the calculations are correct;  
4 however, there will be increased usage in average household consumption that  
5 will offset, to some degree, the decreased usage associated with price  
6 increases. The forecasting models quantify price elasticities ranging from -  
7 0.16 to -0.21 for Big Rivers' three member cooperatives. These values are  
8 comparable to results for many electric utilities and are based on the  
9 relationship between electric consumption and prices from 1991-2012.
- 10 b. The base case load forecast assumes retail electricity prices will increase over  
11 years 2014, 2015, and 2016. Based on this increase, energy consumption for  
12 the average Rural system customer is expected to fall by almost 5.5% by  
13 2016. An energy reduction on RDS of 5.5% translates into a 1.7% reduction  
14 of the average retail end-user bill. The negative impacts of price on average  
15 energy consumption are offset to some degree by those factors increasing  
16 consumption (increases in home size, growth in miscellaneous end-uses,  
17 increases in average electric market share of heating and cooling systems,  
18 etc).

**BIG RIVERS ELECTRIC CORPORATION**

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1           c.       Please see Big Rivers' response to SC 1-20.

2

3   **Witnesses)**   Lindsay N. Barron, John Wolfram

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1 **Item 34)** *Please provide the Company's test year MISO settlements by component and*  
2 *indicate the specific lines where each of these components is included in the Company's*  
3 *financial model. Please provide all assumptions, calculations, and electronic spreadsheets*  
4 *with formulas intact used to quantify these components.*

5

6 **Response)** Please see Big Rivers' response to AG 1-125.

7

8 **Witness)** Robert W. Berry

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1 **Item 35)** *Please provide the amount of transmission revenues from Century Kentucky*  
2 *and from Century Sebree included in the Company's test year revenue requirement and*  
3 *indicate specific lines where each of these amounts is included in the Company's financial*  
4 *model. Please provide all assumptions, calculations, and electronic spreadsheets with*  
5 *formulas intact used to quantify these amounts.*

6

7 **Response)** Transmission revenues from Century Kentucky and Century Sebree were not  
8 included in the test year revenues for this case. It was assumed that Century Kentucky  
9 transmission revenues would be offset against SSR costs. Century Sebree does not currently  
10 have a contract to operate beyond January 31, 2014, thus no transmission revenues were  
11 included in this projection. Century Sebree impacts to the test year revenue will be addressed  
12 in a filing before the Commission if Century Sebree and Big Rivers reach an agreement for  
13 Century Sebree to purchase power through Kenergy.

14

15 **Witness)** Robert W. Berry

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1 **Item 36)** *Please describe all negotiations with Century Sebree and provide a status*  
2 *report regarding market access for power to the Sebree Smelter. Provide all*  
3 *correspondence between Big Rivers and Century regarding a contract for market access or*  
4 *a long-term electric supply contract for the Sebree smelter.*

5  
6 **Response)** Big Rivers has not had and does not expect to have unilateral negotiations  
7 with Century Sebree regarding market access for power for the Sebree Smelter. Big Rivers  
8 does expect to commence negotiations with Kenergy Corp. and Century Sebree for  
9 arrangements similar to those approved by the Commission in Case No. 2013-00221 after  
10 first negotiating and obtaining from Century Sebree an appropriate transaction cost  
11 reimbursement agreement. During the quarterly Coordinating Committee meeting on August  
12 15, 2013, Century requested Big Rivers to propose a cost reimbursement agreement to enable  
13 discussions to begin regarding power supply arrangements that would allow the Century  
14 Sebree smelter to continue smelting operations beyond January of 2014. There is no written  
15 correspondence between Big Rivers and Century regarding these anticipated power supply  
16 negotiations.

17  
18 **Witness)** Robert W. Berry

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1 **Item 37)** *Refer to pages 14-15 of Mr. William's Direct Testimony. Please provide a*  
2 *schedule showing each amortization expense included in the Company's test year expenses*  
3 *and revenue requirement. Provide all assumptions, calculations, and electronic*  
4 *spreadsheets with formulas intact for each of these amounts.*

5  
6 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
7 unduly burdensome. Notwithstanding these objections, but without waiving them, please see  
8 the attached spreadsheets showing amortization expense for rate case expenses, severance,  
9 and Environmental Compliance Plan (ECP) costs that are included in Big Rivers' test year  
10 expenses. All but the ECP cost amortization are also included in the revenue requirement;  
11 the ECP cost amortization is recovered via the Environmental Surcharge and is removed  
12 from the revenue requirement in the pro forma adjustment described in Exhibit Wolfram-2,  
13 Reference Schedule 1.02.

14

15 **Witness)** Jeffrey R. Williams

**Big Rivers Electric Corporation  
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**Attachment for Response to KIUC 1-37  
Amortization of Rate Case Expenditures**

	<b>Century</b>	<b>Alcan</b>	<b>Total</b>
<b>Rate Case Expenditures</b>	1,585,977	1,406,105	2,992,082
per month for 36 months	44,055	39,058	83,113

<b>Amortization Schedule:</b>	<b>Century</b>	<b>Alcan</b>	<b>Total</b>
February-14	44,055	39,058	83,113
March-14	44,055	39,058	83,113
April-14	44,055	39,058	83,113
May-14	44,055	39,058	83,113
June-14	44,055	39,058	83,113
July-14	44,055	39,058	83,113
August-14	44,055	39,058	83,113
September-14	44,055	39,058	83,113
October-14	44,055	39,058	83,113
November-14	44,055	39,058	83,113
December-14	44,055	39,058	83,113
January-15	44,055	39,058	83,113
	<b>528,659</b>	<b>468,702</b>	<b>997,361</b>



**Attachment for Response to KIUC 1-37**  
**Amortization of Rate Case Expenditures**

	<u><b>ECP Costs</b></u>
<b>Unamortized ECP Costs as of 2014</b>	447,630
per month for 21 months	21,316

<b>Amortization Schedule:</b>	<u><b>ECP Costs</b></u>
February-14	21,316
March-14	21,316
April-14	21,316
May-14	21,316
June-14	21,316
July-14	21,316
August-14	21,316
September-14	21,316
October-14	21,316
November-14	21,316
December-14	21,316
January-15	21,316
	<u><b>255,789</b></u>

Attachment for Response to KIUC 1-37  
Amortization of Rate Case Expenditures

	<b>Century</b>	<b>Alcan</b>	<b>Total</b>
<b>Amount of Severance</b>	4,600,000	3,700,000	8,300,000
per month for 60 months	76,667	61,667	138,333

<b>Amortization Schedule:</b>	<b>Century</b>	<b>Alcan</b>	<b>Total</b>
February-14	76,667	61,667	138,333
March-14	76,667	61,667	138,333
April-14	76,667	61,667	138,333
May-14	76,667	61,667	138,333
June-14	76,667	61,667	138,333
July-14	76,667	61,667	138,333
August-14	76,667	61,667	138,333
September-14	76,667	61,667	138,333
October-14	76,667	61,667	138,333
November-14	76,667	61,667	138,333
December-14	76,667	61,667	138,333
January-15	76,667	61,667	138,333
	<b>920,000</b>	<b>740,000</b>	<b>1,660,000</b>

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1 **Item 38)** *Refer to pages 15-16 of Mr. William's Direct Testimony regarding the FDE*  
2 *expense. Please provide a copy of all analyses and/or studies that address potential*  
3 *reductions in the Company's staffing requirements and/or costs after the termination of*  
4 *the Smelter load and the idling of the Wilson and Coleman plants other than the staffing*  
5 *and costs to operate and maintain the plants.*

6

7 **Response)** Big Rivers has not completed such a study. Note that Big Rivers removed the  
8 costs of certain support staff for the Wilson and Coleman plants (in addition to removing the  
9 costs of positions at the plants). These include a total of twelve positions in Budgeting, IT,  
10 Safety, and Supply Chain whose duties are closely related to the operation and maintenance  
11 of the two plants. See Exhibit Wolfram-2, Reference Schedule 1.10 in this case and in the  
12 same schedule in Case No. 2012-00535. These positions were identified by Company  
13 management without a formal study.

14

15 **Witness)** Billie J. Richert

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1 **Item 39)** *Refer to page 6 of Mr. Berry's Direct Testimony. Please provide a copy of*  
2 *the generating unit reliability benchmark study that he references. Also, if not included in*  
3 *the study, please provide annual EFOR, EAF, and NCF results for each of the Company's*  
4 *generating units individually, and provide the results on an annual basis, as well as a*  
5 *cumulative average basis over the 2008 through 2012 period. Provide the same*  
6 *information for the Peer Group as well.*

7

8 **Response)** Please see the attached CONFIDENTIAL documents that are being provided  
9 under a petition for confidential treatment. The cumulative averages for the 5 year period by  
10 Big Rivers' individual units and the Peer Group for EFOR, EAF, and NCF were provided in  
11 the study. Please see the table on the following page for the annual values for Big Rivers  
12 units. The annual values for the Peer Group are not available without performing a new  
13 study.

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<b>Unit</b>	<b>Year</b>	<b>2012</b>	<b>2011</b>	<b>2010</b>	<b>2009</b>	<b>2008</b>
<b>Coleman 1</b>	EAF, %					
	EFOR, %					
	Net Capacity Factor, %					
<b>Coleman 2</b>	EAF, %					
	EFOR, %					
	Net Capacity Factor, %					
<b>Coleman 3</b>	EAF, %					
	EFOR, %					
	Net Capacity Factor, %					
<b>HMP'L 1</b>	EAF, %					
	EFOR, %					
	Net Capacity Factor, %					
<b>HMP'L 2</b>	EAF, %					
	EFOR, %					
	Net Capacity Factor, %					
<b>Green 1</b>	EAF, %					
	EFOR, %					
	Net Capacity Factor, %					
<b>Green 2</b>	EAF, %					
	EFOR, %					
	Net Capacity Factor, %					
<b>Wilson</b>	EAF, %					
	EFOR, %					
	Net Capacity Factor, %					

1

2 Witness) Robert W. Berry

**Big Rivers Electric Corporation**  
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KIUC 1-39

Attachment filed as confidential

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 40)** *Refer to page 7 of Mr. Berry's testimony wherein he discusses planned*  
2 *maintenance expected to be performed at each of Big River's units over the next three*  
3 *years. Please supply the following information, though this request asks that information*  
4 *be supplied for the longest period for which data is available:*

5 *a. Hours of maintenance planned by unit each year.*

6 *b. Planned maintenance schedule dates by unit.*

7 *c. Specific work that will be performed by maintenance outage by unit each*  
8 *year.*

9 *d. Cost of specific work that will be performed by maintenance outage by unit*  
10 *each year.*

11 *e. All workpapers that were used to derive the planned maintenance schedules*  
12 *and the associated costs. These should be provided electronically with all*  
13 *formulas attached and with no pasted in values.*

14 *f. Please provide a copy of the Outage Planning Process Manual discussed at*  
15 *page 7 at line 2 of Mr. Berry's testimony.*  
16

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1 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
2 unduly burdensome. Notwithstanding these objections, but without waiving them, Big  
3 Rivers states as follows.

4 a-d. Please see the CONFIDENTIAL document, provided under a petition for  
5 confidential treatment.

6 e. Big Rivers' outage work plan is developed using a combination of in-house  
7 expertise; a computerized maintenance management system; third party  
8 inspections, studies and reports; and maintenance history information. Please  
9 see the attached CONFIDENTIAL electronic files accompanying this  
10 response for a sample of the reports, analyses, and documentation on which  
11 the plan is based.

12 f. Please see the attached CONFIDENTIAL electronic files in Big Rivers'  
13 response to subpart (e) above for an electronic copy of Big Rivers' "Outage  
14 Planning Process Manual".

15

16 **Witness)** Robert W. Berry



**ELECTRONIC  
ATTACHMENT(S)  
PRODUCED  
SEPARATELY**

**Big Rivers Electric Corporation  
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KIUC 1-40

Attachment filed as confidential

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1 **Item 41)**     *Exhibit Berry-1 of Mr. Berry's testimony includes FDE Outage \$ and FDE*  
2 *Routine \$ by unit by year. Please supply the following information, though this request*  
3 *asks that information be supplied for the longest period for which data is available:*

4       *a. Description of the work that will be performed for the Outage category by*  
5       *unit each year.*

6       *b. Description of the work that will be performed for the Routine category by*  
7       *unit each year.*

8       *c. All workpapers that were used to derive the Outage category costs. These*  
9       *should be provided electronically with all formulas attached and with no*  
10       *pasted in values.*

11       *d. All workpapers that were used to derive the Routine category costs. These*  
12       *should be provided electronically with all formulas attached and with no*  
13       *pasted in values.*

14

15 **Response)**

16       a. Please see Big Rivers' response to KIUC 1-40(c).

17       b. The work that is performed in Big Rivers' FDE routine categories is similar  
18       for all generating units and consists of maintenance and operation of

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1 equipment associated to: Boiler Equipment, Turbine-Generator Equipment,  
2 Fuel Processing Equipment, Environmental Equipment, Water Treatment  
3 Equipment, and Balance of Plant Facilities.

4 c. Please see Big Rivers' response to KIUC 1-40(e).

5 d. Please see Big Rivers' response to KIUC 1-40(e).

6

7 **Witness)** Robert W. Berry

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- 1 **Item 42)**     *Exhibit Berry-2 of Mr. Berry's testimony contains details of Big Rivers'*  
2 *production department's current capital work plan.*
- 3         *a.     Please supply a copy of the prior capital work plan, going out as far as data*  
4             *was available, and explain the reason for all differences in the current work*  
5             *plan compared to the prior work plan.*
- 6         *b.     Please provide all workpapers that were used to derive the most recent*  
7             *capital work plan, going out as far as data was available. These should be*  
8             *provided electronically with all formulas attached and with no pasted in*  
9             *values.*
- 10        *c.     For each unit the Company plans to idle, please explain the reason why*  
11            *there is a need for the capital improvements while being layed-up.*
- 12        *d.     For the Coleman and Wilson units, please supply all documentation*  
13            *discussed on page 8 of Mr. Berry's testimony that was relied on in*  
14            *developing long-term planned outage expenses at those units, going out as*  
15            *far as the data is available.*

16

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1 **Response)**

- 2           a.     Please see Big Rivers' CONFIDENTIAL attachment to this response,  
3                     provided under a petition for confidential treatment, for the current-to-prior  
4                     capital plan variances.
- 5           b.     Please see Big Rivers' response to KIUC 1-40(e).
- 6           c.     Coleman Station has ██████████ in the 2014 capital budget to purchase unit lay-  
7                     up equipment. The current Wilson Station 2014-2016 capital plan was  
8                     developed in 2012 with uncertainty surrounding the timing of the lay-up and  
9                     restoration. The 2014-2017 Wilson Station capital plan that will be presented  
10                    to the Big Rivers Board in November for approval will not include any capital  
11                    for Wilson Station in 2015 or 2016.
- 12          d.     Exhibit Berry-1 in the Direct Testimony of Robert W. Berry in this instant  
13                     case illustrates that neither Wilson nor Coleman has outage related expenses  
14                     budgeted for 2014, 2015, or 2016. For the requested documentation please  
15                     see Big Rivers' response to KIUC 1-40(e).

16

17 **Witness)** Robert W. Berry

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KIUC 1-42a

Attachment filed as confidential

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 43)** *Page 8 of Mr. Berry's testimony mentions that a line by line review was*  
2 *performed for non-outage O&M costs to develop a non-outage O&M budget. Please*  
3 *provide workpapers that:*

4 **a.** *Show the historical costs by department that were reviewed for this purpose.*  
5 *Please provide a breakout for fuel, pollution control reagent, and pollution*  
6 *cost product and ash disposal and further separated into routine and special*  
7 *projects.*

8 **b.** *The projected budget that was created, going out as far as the data is*  
9 *available, based on the historical departmental costs. Please provide a*  
10 *breakout for fuel, pollution control reagent and pollution control product*  
11 *and ash disposal, and further separated into routine and special projects.*

12 **c.** *The production cost model inputs that were created, going out as far as the*  
13 *data is available, based on the project budget.*

14 **d.** *The production cost model output, going out as far as the results are*  
15 *available, that would have presumably been compared to the historical costs.*  
16



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1 **Response)**

2 a. For the historical costs requested, please see the attached documents.

3 b. For the budgeted costs requested, please see Big Rivers' CONFIDENTIAL  
4 attachment to this response provided under a petition for confidential  
5 treatment.

6 c. The production cost model inputs were attached to Big Rivers' response to  
7 KIUC 1-12(b, d-g). For the plant VOM inputs, please see the  
8 CONFIDENTIAL attachment to this response provided under a petition for  
9 confidential treatment.

10 d. The production cost model output files are attached to Big Rivers' response to  
11 AG 1-98.

12

13 **Witness) Robert W. Berry**

**Big Rivers Electric Corporation**  
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**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Coleman 2010**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
C210OUTB	Coleman 2 Outage 2010	3,587,322
CLINVADJ	Inventory Adjustments to Physical	49,584
CLMASH	Ash Handling	373,361
CLMBFW	Boiler Feed Water	158,465
CLMCDS	Condensate	170,572
CLMCHS	Coal Handling	460,825
CLMCHSBUS	Barge Unloading	203,911
CLMCSM	Consumables	365,770
CLMCW	Cooling Water System	2,100
CLMCWS	Circulating Water	255,692
CLMCWSINT	Circulating Water/Intake	49,859
CLMDWS	Demineralized Water	61,555
CLMEDT	Electrical Distribution	106,115
CLMEL	Elevator	46,815
CLMEVS	Continuous Emissions	55,945
CLMEVSESC	Effluent Control	14,638
CLMFGD	Flue Gas Desulfurization	781,593
CLMFGDGP	FGD Gypsum	13,527
CLMFGDLSC	FGD Limestone Conditioning	288,278
CLMFPS	Fire Protection	22,949
CLMGEU	General Equipment	164,250
CLMGSU	Gas Start Up	6,437
CLMHEQ	Mobile Fuels Equipment	39,453
CLMHEQPV	Plant Vehicles	2,970
CLMHVC	HVAC	84,717
CLMHVCPVS	Plant Vent Systems	12,475
CLMIBBIC	Instrument Calibration	65
CLMMBBMT	Maintenance Training	84
CLMMBBPL	Plant Lubrication	3,548
CLMNOX	NOx Equipment	44,708
CLMOHC	Overhead Cranes	69,592
CLMPAS	Plant Air System	124,863
CLMPCM	Plant Communications	11,891
CLMPLC	Plant Logic and Controls	233,410
CLMPLCHTP	Heat Trace	20,990
CLMPLS	Plant Lighting	105,876
CLMPST	Plant Structures	605,374
CLMPWS	Potable Water	79,922
CLMRID	Recording and Indicating Devices	3,473

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**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Coleman 2010**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
CLMSGU	Steam Generating Unit	402,209
CLMSGUFDE	Fans and Drafts	270,952
CLMSGUFPE	Fuel Processing	349,289
CLMSGUPRP	Precipitators	37,726
CLMSI	Safety Items	5,695
CLMTGN	Turbine Generator	(51,437)
CLMWWS	Waste Water	33,482
CLOADM	Administration	306,714
CLOCHS	Coal Handling	45,508
CLOCHSBUS	CH Barge Unloader System	150,553
CLOCSM	Consumables	76,364
CLOCWS	Cir Water/Cooling Tower	69,523
CLOENV	CL Performance/Environmental	359,204
CLOFGD	Flue Gas Desulfurization	166,703
CLOHEQ	Mobile Fuels Equipment	409,483
CLOLAB	Lab	515,249
CLOLUB	Plant Lubrication	93,291
CLOPONDS	Pond Clean up/Mtc/WWTF	(25,039)
CLOPST	Plant Structures	102,998
CLOSGU	Boilers and Burners	38,868
CLOSGUFPE	Fuel Processing	64,747
CLOTGN	Turbine Generator	77,031
CLOTR	Tool Room	11,909
CLOTRNG	Operations Training	920
CLOUTL	Utilities	25,149
FGD10OUT	FGD Outage 2010	634,811
<b>FDE O&amp;M Non-Labor NET Total</b>		<b>\$ 12,854,874</b>

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**Historical Cost Budget Worksheet - Coleman 2011**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
CXXXOUTB	Coleman X Outage 20XX	(135,472)
CLMASH	Ash Handling	591,239
CLMBFW	Boiler Feed Water	189,908
CLMCDS	Condensate	122,214
CLMCHS	Coal Handling	314,830
CLMCHSBUS	Barge Unloading	(7,510)
CLMCSSM	Consumables	334,976
CLMCW	Cooling Water System	3,490
CLMCWS	Circulating Water	90,363
CLMCWSINT	Circulating Water/Intake	606
CLMDWS	Demineralized Water	50,533
CLMEDT	Electrical Distribution	175,259
CLMEL	Elevator	66,010
CLMEVS	Continuous Emissions	47,946
CLMEVSESC	Effluent Control	197
CLMFGD	Flue Gas Desulfurization	842,853
CLMFGDGP	FGD Gypsum	156,223
CLMFGDLSC	FGD Limestone Conditioning	298,263
CLMFPS	Fire Protection	47,601
CLMGEU	General Equipment	91,621
CLMGSU	Gas Start Up	67,695
CLMHEQ	Mobile Fuels Equipment	72,780
CLMHEQPV	Plant Vehicles	1,150
CLMHVC	HVAC	78,452
CLMHVCPVS	Plant Vent Systems	(17)
CLMIBBIC	Instrument Calibration	144
CLMMBBMT	Maintenance Training	11,787
CLMMBBPL	Plant Lubrication	2,444
CLMNOX	NOx Equipment	65,703
CLMOHC	Overhead Cranes	5,207
CLMPAS	Plant Air System	141,405
CLMPCM	Plant Communications	31,032
CLMPLC	Plant Logic and Controls	182,165
CLMPLS	Plant Lighting	141,737
CLMPST	Plant Structures	647,087
CLMPWS	Potable Water	47,596
CLMRID	Recording and Indicating Devices	8,047
CLMSGU	Steam Generating Unit	2,507,817
CLMSGUFDE	Fans and Drafts	16,372

**Big Rivers Electric Corporation**  
**Case NO. 2013-00199**  
**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Coleman 2011**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
CLMSGUFPE	Fuel Processing	142,259
CLMSI	Safety Items	1,348
CLMTGN	Turbine Generator	200,078
CLMWWS	Waste Water	136,885
CLOADM	Administration	370,204
CLOCHS	Coal Handling	146,487
CLOCHSBUS	CH Barge Unloader System	332,349
CLOCSM	Consumables	74,889
CLOCWS	Cir Water/Cooling Tower	5,758
CLOENV	CL Performance/Environmental	17,050
CLOFGD	Flue Gas Desulfurization	139,148
CLOHEQ	Mobile Fuels Equipment	267,946
CLOLAB	Lab	280,471
CLOLUB	Plant Lubrication	110,925
CLOPONDS	Pond Clean up/Mtc/WWTF	65,943
CLOPST	Plant Structures	96,239
CLOSGU	Boilers and Burners	475,394
CLOSGUFPE	Fuel Processing	347,424
CLOTGN	Turbine Generator	30,615
CLOTR	Tool Room	9,154
CLOUTL	Utilities	28,829
FGDXXOUT	FGD Outage 20XX	17,839
<b>FDE O&amp;M Non-Labor NET Total</b>		<b>\$ 10,606,990</b>

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
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**Historical Cost Budget Worksheet - Coleman 2012**

<b>Project Number &amp; Name</b>	<b>Act (YTD)</b>
CLOADM - CLO Admin	381,728
CLOUTL - CLO Utilities	29,215
CLOCHS - CLO Fuel Handling	23,003
CLOCHSBUS - CLO Barge Unloader	273,473
CLOHEQ - CLO Mobile Fuels Equip	167,608
CLOPONDS - CL Pond Clean Up/Mtc/WWTF	10,749
CLOPST - CLO Buildings & Grounds	115,415
CLOCSM - CLO Consumables	71,874
CLOENV - CL Environmental/Performance	46,373
CLOLUB - CL Plant Lubrication	117,998
CLOSGU - CLO Boilers & Burners	408,247
CLOSGUFPE - CLO Mills & Feeders	198,127
CLOTGN - CLO Turbine Generator	30,643
CLOCWS - CLO Circ Water/Cooling Tower	17,482
CLINVADJ - CL Inventory Adjustment	27,066
CLMFGD - CLM FGD System	626,255
CLMFGDGP - CLM FGD Gypsum Plant	128,598
CLMFGDLSC - CLM FGD Limestone Conditioning	259,845
CLOFGD - CLO FGD Ops Expense	129,251
CLOLAB - CLO Lab	230,420
CLMNOX - Coleman Nox Maintenance	110,281
CLMASH - CLM Ash Handling	533,231
CLMBFW - CLM Boiler Feedwater System	217,673
CLMCDS - CLM Condensate System	133,562
CLMCHS - CLM Coal Handling System	545,521
CLMCHSBUS - CLM Barge Unloading Sys	23,499
CLMCSM - Consumables Coleman Maint.	359,444
CLMCW - CLM Cooling Water System	2,033
CLMCWS - CLM Circ Water System	246,802
CLMCWSINT - CLM Screenwell	(35)
CLMDWS - CLM Demineralized Water System	19,511
CLMEDT - CLM Electrical Distribution	205,309
CLMEL - CLM Elevators	110,050
CLMEVS - CLM Continuous Emissions	52,792
CLMFPS - CLM Fire Protection System	5,245
CLMGEU - CLM General Use Equipment	22,543
CLMGSU - CLM Gas Start Up	(3,920)
CLMHEQ - CLM Mobile Fuels Equipment	56,621
CLMHEQPV - CLM Vehicles	2,773

**Big Rivers Electric Corporation**  
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**Historical Cost Budget Worksheet - Coleman 2012**

<u>Project Number &amp; Name</u>	<u>Act (YTD)</u>
CLMHVC - CLM HVAC Equipment	105,420
CLMIBBIC - CLM Instrument Calibration	74
CLMMBBMT - CLM Training	7,572
CLMMBBPL - CLM Plant Lubrication	2,318
CLMMBBPM - CLM Preventive Maintenance	1,261
CLMMBBVM - CLM Vibration Readings	2,975
CLMOHC - CLM Ovhd Cranes/Hoists	4,173
CLMPAS - CLM Air System	66,255
CLMPCM - CLM Plant Communications	33,280
CLMPLC - CLM Plt/Cntrls Computer Sys	102,455
CLMPLS - CLM Plant Lighting System	81,408
CLMPST - CLM Plant Struct/Improve	574,393
CLMPWS - CLM Potable Water System	15,889
CLMRID - CLM Recording/Indicating Dev	6,994
CLMSGU - CLM Boilers and Burners	2,021,453
CLMSGUFDE - CLM Fans/Draft Equipment	149
CLMSGUFPE - CLM Mills & Feeders	32,636
CLMSI - CLM Safety Items	24,472
CLMTGN - CLM Turbine/Generator	130,416
CLMWWS - CLM Waste Water Treatment	43,249
<b>FDE O&amp;M Non-Labor NET Total</b>	<b><u>\$ 9,193,147</u></b>

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Green 2010**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
GN109FPO	G1 - Fall 09 Outage (Ops)	(270)
GN110MILL	G1 - Mill Overhaul 2010	267,307
GN110USO	G1 - Unscheduled Outages 2010	86,573
GN210FIRE	G2 - Fire Water Lines 2010	15,969
GN210MILL	G2 - Mill Overhaul 2010	236,857
GN210USO	G2 - Unscheduled Outage 2010	71,360
GN110SPG	G1 - Spring Outage 2010 (Gen)	547,792
GN110SPN	G1 - Spring Outage 2010 (Nox)	45,386
GN110SPO	G1 - Spring Outage 2010 (Ops)	114,817
GN110SPS	G1 - Spring Outage 2010 (FGD)	222,281
GN110SPT	G1 - Spring Outage 2010 (Turb)	166,904
BPCMS	Central Machine Shop	110,525
GHMCHSBUX	G/SII Barge Unloading Sys	(31,358)
GHMFGD	G/SII Flue Gas Desulfurization	52,169
GHMFGX	G/SII Limestone Processing	9,116
GHMSWY	G/SII Solid Waste Disposal	83,854
GN109USO	G1 - Unscheduled Outages 2009	6,584
GNMASH	GNM Ash Handling	341,214
GNMBFW	GNM Boiler Feedwater System	62,962
GNMCDS	GNM Condensate System	59,186
GNMCHS	GNM Coal Handling System	569,949
GNMCHSBUX	GN Barge Unloading System	186,320
GNMCSM	GNM Consummables	388,429
GNMCW	GNM Cooling Water System	24,904
GNMCWS	GNM Circ Water System	234,828
GNMDWS	GNM Demineralized Water System	14,510
GNMEDT	GNM Electrical Distribution	79,485
GNMEL	GNM Elevators	86,657
GNMENV	GNM CEM	97,729
GNMFGD	GNM Flue Gas Desulfurization	911,663
GNMFGX	GN Limestone Processing	299,034
GNMFOS	GNM Fuel Oil System	32,684
GNMFPS	GNM Fire Protection System	63,208
GNMGEU	GNM General Use Equipment	46,219
GNMHVC	GNM HVAC Equip	61,026
GNMIBBIC	GNM Instrument Calibration	137
GNMABBMT	GNM Maint Training	720
GNMABBPL	GNM Plant Lubrication	7,662
GNMABBBSI	GNM Safety Items	2,098



**Big Rivers Electric Corporation**  
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**Historical Cost Budget Worksheet - Green 2010**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
GNMMEQ	GN Mobile Fuels Equip	76,840
GNMMEX	GN Mobile Fuels Eq	180,570
GNMOHC	GNM Ovhd Cranes/Hoists	16,936
GNMPAS	GNM Air System	12,809
GNMPCM	GNM Plant Communications	71,306
GNMPCS	GNM Plt Controls/Computer Sys	123,449
GNMPFP	GNM Plant Freeze Protection	171,228
GNMPLS	GNM Plant Lighting System	70,494
GNMPST	GNM Plant Struct/Imp-NS	514,141
GNMPWS	GNM Potable Water System	23,059
GNMRID	GNM Recording/Indicating Dev	320
GNMSGU	GNM Boilers and Burners	939,868
GNMSGURBN	GNM OFA Reburn Mtce	31,478
GNMSWY	GN Solid Waste Disposal	1,069,013
GNMTGN	GNM Turbine/Generator	96,563
GNMTR	GNM Tool Room	(782)
GNMWWS	GNM Waste Water Treatment	38,154
GRHMMEQ	R/G/H Mobile Fuels Equip	12,403
GRHMEX	R/G/H - Mobile Fuels Eq	375
GRHMPST	G/R/H Plant Struct/Improve	11,838
GNCHCSM	Coal Handling Consummables	5,318
GNCHOIS	CH Outside Industrial Svcs.	54,046
GNCHPST	Bldg/Grnds-Coal Handling	118,196
GNCHTR	Coal Handling Tool Room	5,975
GNDREDGE	GN-Dredging Green Ash Pond	68,226
GNOADM	GNO Admin	235,998
GNOCHMEQ	CH Mobile Fuels Equipment	72,840
GNOCHS	GNO Fuel Handling	36,537
GNOCHSBUX	GNO Barge Unloader	10,522
GNOCSM	GNO Consummables	23,494
GNOFGD	GNO SDRS	(423,006)
GNOIS	Outside Industrial Service	153,541
GNOLAB	GNO Lab	691,899
GNOLDF	GNO Landfill	17,033
GNOMEQ	GNO Mobile Fuels Equip	216,349
GNOMEQCVH	GNO Vehicles	54,997
GNOPST	GNO Buildings & Grounds	137,858
GNOSGU	GNO Boilers & Burners	83,541
GNOTGN	GNO Turbine Generator	22,887

**Big Rivers Electric Corporation**  
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**Historical Cost Budget Worksheet - Green 2010**

<u>Project No</u>	<u>Project Name</u>	<u>Act (YTD)</u>
GNOTR	GNO Tool Room	21,218
<b>FDE O&amp;M Non-Labor GROSS Total</b>		<u><b>\$ 10,644,020</b></u>
HMPL Allocation		(213,893)
<b>FDE O&amp;M Non-Labor NET Total</b>		<u><u><b>\$ 10,430,127</b></u></u>

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**Historical Cost Budget Worksheet - Green 2011**

<b>Project Number &amp; Name</b>	<b>Act (YTD)</b>
GHMCHSBUX - G/SII Barge Unloading Sys	108,765
GHMFGD - G/SII Flue Gas Desulfurization	6,518
GHMFGX - G/SII Limestone Processing	96,416
GHMSWY - G/SII Solid Waste Disposal	727,045
GN111FPG - G1 - Fall Planned Outage (MTC)	1,176,306
GN111FPN - G1 - Fall Planned Outage (NOX)	170,172
GN111FPO - G1 - Fall Planned Outage (Ops)	186,198
GN111FPS - G1 - Fall Planned Outage(SDRS)	339,715
GN111FPT - G1 - Fall Planned Outage(Turb)	988,938
GN111MILL - G1 - 2011 Mill Overhaul	178,045
GN111USO - G1 - Unscheduled Outages 2011	251,228
GN210MILL - G2 - Mill Overhaul 2010	87
GN211FIRE - G2 - Fire Water Lines	159,059
GN211FPG - G2 - Fall Planned Outage (MTC)	47,462
GN211FPT - G2 - Fall Planned Outage(Turb)	5,836
GN211MILL - G2 - Mill Overhaul	18,239
GN211USO - G2 - Unscheduled Outages	189,497
GNCHCSM - Coal Handling Consummables	415
GNCHOIS - CH Outside Industrial Svcs.	57,501
GNCHPST - Bldg/Grnds-Coal Handling	55,423
GNCHTR - Coal Handling Tool Room	1,091
GNDREDGE - GN-Dredging Landfill Pond	16,718
GNMASH - GNM Ash Handling	304,416
GNMBFW - GNM Boiler Feedwater System	72,254
GNMCDS - GNM Condensate System	22,402
GNMCHS - GNM Coal Handling System	1,175,819
GNMCHSBUX - GN Barge Unloading System	20,884
GNMCSM - GNM Consummables	549,532
GNMCW - GNM Cooling Water System	6,664
GNMCWS - GNM Circ Water System	181,978
GNMDWS - GNM Demineralized Water System	33,333
GNMEDT - GNM Electrical Distribution	147,880
GNMEL - GNM Elevators	95,825
GNMENV - GNM CEM	140,961
GNMFGD - GNM Flue Gas Desulfurization	634,538
GNMFGX - GN Limestone Processing	29,077
GNMFOS - GNM Fuel Oil System	28,013
GNMFPS - GNM Fire Protection System	74,724
GNMGEU - GNM General Use Equipment	33,913

**Big Rivers Electric Corporation**  
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**Historical Cost Budget Worksheet - Green 2011**

<u>Project Number &amp; Name</u>	<u>Act (YTD)</u>
GNMHVC - GNM HVAC Equip	103,243
GNMMBBMT - GNM Maint Training	16,593
GNMMBBPL - GNM Plant Lubrication	378
GNMMBBSI - GNM Safety Items	1,501
GNMMEQ - GN Mobile Fuels Equip	69,482
GNMMEX - GN Mobile Fuels Eq	305,100
GNMPAS - GNM Air System	65,757
GNMPCM - GNM Plant Communications	27,727
GNMPCS - GNM Plt Controls/Computer Sys	99,072
GNMPFP - GNM Plant Freeze Protection	63,974
GNMPLS - GNM Plant Lighting System	89,248
GNMPST - GNM Plant Struct/Imp-NS	91,315
GNMPWS - GNM Potable Water System	10,035
GNMRID - GNM Recording/Indicating Dev	845
GNMSGU - GNM Boilers and Burners	897,258
GNMSGURBN - GNM OFA Reburn Mtce	20,592
GNMSWY - GN Solid Waste Disposal	24,079
GNMTGN - GNM Turbine/Generator	46,570
GNMTR - GNM Tool Room	62,023
GNMWWS - GNM Waste Water Treatment	30,573
GNOADM - GNO Admin	135,412
GNOCHMEQ - CH Mobile Fuels Equipment	98,416
GNOCHS - GNO Fuel Handling	58,464
GNOCHSBUX - GNO Barge Unloader	111,814
GNOCSM - GNO Consummables	27,031
GNOFGD - GNO SDRS	(382,430)
GNOIS - Outside Industrial Service	234,032
GNOLAB - GNO Lab	574,145
GNOLDF - GNO Landfill	11,662
GNOMEQ - GNO Mobile Fuels Equip	144,006
GNOMEQCVH - GNO Vehicles	40,475
GNOPST - GNO Buildings & Grounds	71,051
GNOSGU - GNO Boilers & Burners	107,896
GNOTGN - GNO Turbine Generator	60,261
GNOTR - GNO Tool Room	19,936
GRHMMEQ - R/G/H Mobile Fuels Equip	25,325
GRHMMEX - R/G/H - Mobile Fuels Eq	3,595
GRHMPST - G/R/H Plant Struct/Improve	18,852
GRHOPST - G/R/H - Buildings and Grounds	55,807

**Big Rivers Electric Corporation**  
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**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Green 2011**

<u>Project Number &amp; Name</u>	<u>Act (YTD)</u>
<b>FDE O&amp;M Non-Labor GROSS Total</b>	<u><u>\$ 11,774,002</u></u>
HMPL Allocation	(120,021)
<b>FDE O&amp;M Non-Labor NET Total</b>	<u><u>\$ 11,653,981</u></u>

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Green 2012**

<u>Project Number &amp; Name</u>	<u>Act (YTD)</u>
G1USO - G1 Unscheduled Outages	169,397
G2USO - G2 Unscheduled Outages	84,328
GN111USO - G1 - Unscheduled Outages 2011	23,595
GN211USO - G2 - Unscheduled Outages	12,389
GN212OUT-M - G2 Planned Outage (Mtce)	60,476
GN111FPG - G1 - Fall Planned Outage (MTC)	6,960
GN111FPS - G1 - Fall Planned Outage(SDRS)	(428)
GN111FPT - G1 - Fall Planned Outage(Turb)	(520)
GN110MILL - G1 - Mill Overhaul 2010	1,013
GN211FPG - G2 - Fall Planned Outage (MTC)	19,019
GN211FPT - G2 - Fall Planned Outage(Turb)	4,094
GN1MILL - G1 Mill Overhaul	443,246
GN111MILL - G1 - 2011 Mill Overhaul	10,436
GN2MILL - G2 Mill Overhaul	18,974
GN211FIRE - G2 - Fire Water Lines	7,745
GHMCHSBUX - G/SII Barge Unloading Sys	155,079
GHMFGD - G/SII Flue Gas Desulfurization	27,538
GHMFGX - G/SII Limestone Processing	45,168
GHMSWY - G/SII Solid Waste Disposal	484,519
GNCHCSM - Coal Handling Consummables	2,389
GNCHOIS - CH Outside Industrial Svcs.	63,053
GNCHPST - Bldg/Grnds-Coal Handling	17,123
GNCHTR - Coal Handling Tool Room	3,860
GNDREDGE - GN-Dredging Landfill Pond	5,670
GNMASH - GNM Ash Handling	469,031
GNMBFW - GNM Boiler Feedwater System	208,252
GNMCDS - GNM Condensate System	86,162
GNMCHS - GNM Coal Handling System	597,237
GNMCHSBUX - GN Barge Unloading System	10,281
GNMCSM - GNM Consummables	531,654
GNMCW - GNM Cooling Water System	8,570
GNMCWS - GNM Circ Water System	394,229
GNMDWS - GNM Demineralized Water System	27,777
GNMEDT - GNM Electrical Distribution	105,719
GNMEL - GNM Elevators	82,234
GNMENV - GNM CEM	72,198
GNMFGD - GNM Flue Gas Desulfurization	459,651
GNMFGX - GN Limestone Processing	(1,935)
GNMFOS - GNM Fuel Oil System	4,405

**Big Rivers Electric Corporation**

Case No. 2013-00199

**Attachment for Response to KIUC 1-43(a)****Historical Cost Budget Worksheet - Green 2012**

<b>Project Number &amp; Name</b>	<b>Act (YTD)</b>
GNMFPS - GNM Fire Protection System	73,728
GNMGEU - GNM General Use Equipment	28,762
GNMHVC - GNM HVAC Equip	154,104
GNMMBBMT - GNM Maint Training	18,017
GNMMBBPL - GNM Plant Lubrication	(281)
GNMMBBSI - GNM Safety Items	858
GNMOHC - GNM Ovhd Cranes/Hoists	40,035
GNMPAS - GNM Air System	38,685
GNMPCM - GNM Plant Communications	101,053
GNMPCS - GNM Plt Controls/Computer Sys	141,802
GNMPFP - GNM Plant Freeze Protection	155,517
GNMPLS - GNM Plant Lighting System	138,529
GNMPST - GNM Plant Struct/Imp-NS	158,134
GNMPWS - GNM Potable Water System	8,370
GNMRID - GNM Recording/Indicating Dev	29,303
GNMSGU - GNM Boilers and Burners	1,229,819
GNMSGURBN - GNM OFA Reburn Mtce	13,782
GNMSWY - GN Solid Waste Disposal	(148)
GNMTGN - GNM Turbine/Generator	193,400
GNMTR - GNM Tool Room	10,266
GNMWWS - GNM Waste Water Treatment	68,789
GRHMPST - G/R/H Plant Struct/Improve	37,159
GNMMEQ - GN Mobile Fuels Equip	59,247
GNMMEX - GN Mobile Fuels Eq	254,209
GRHMMEQ - R/G/H Mobile Fuels Equip	42,097
GRHMMEQ - R/G/H - Mobile Fuels Eq	8,171
GNOCHMEQ - CH Mobile Fuels Equipment	187,943
GNOSEQ - GNO Mobile Fuels Equip	31,800
GNOADM - GNO Admin	150,347
GNOCHS - GNO Fuel Handling	97,213
GNOCHSBUX - GNO Barge Unloader	201,248
GNOCSM - GNO Consummables	34,322
GNOFGD - GNO SDRS	(341,818)
GNOIS - Outside Industrial Service	226,731
GNOLAB - GNO Lab	775,610
GNOLDF - GNO Landfill	10,483
GNOSEQCVH - GNO Vehicles	37,658
GNOPST - GNO Buildings & Grounds	74,633
GNOSGU - GNO Boilers & Burners	51,027

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Attachment for Response to KIUC 1-43(a)

Witness: Robert W. Berry

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**Big Rivers Electric Corporation**  
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**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Green 2012**

<u>Project Number &amp; Name</u>	<u>Act (YTD)</u>
GNOTGN - GNO Turbine Generator	18,165
GNOTR - GNO Tool Room	20,326
MTC CHARGE TO NO PROJECT	(205)
GNOTRAIN - Green Operations Training	130
GNOBSINV - GN Obsolete Inventory	4,079
GNINVADJ - GN Inventory Adjustment	(13,287)
<b>FDE O&amp;M Non-Labor GROSS Total</b>	<b><u>\$ 9,290,403</u></b>
HMPL Allocation	(106,273)
<b>FDE O&amp;M Non-Labor NET Total</b>	<b><u><u>\$ 9,184,130</u></u></b>



**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Reid/SII 2010**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
GT10NGAS	GT - Natural Gas	270,739
GTMEDT	GT - Electrical Distribution	24,278
GTMFPS	GT - Fire Protection	-
GTMGEN	GT - General Maintenance	363,025
RD110CBFP	R1 - "C" Boiler Feed Pump	57,862
RD110CENT	R1 - Centac Overhaul	84,874
RD110PSE	R1 - Primary SHeat Elements	55,435
RD110WBR	R1 - Wet Bottom Refractory	102,614
RD110XXX	RD - Major Initiatives	-
RH10XXX	RH - Major Initiatives	4,497
ST10SSEL	H0 - Scrubber Stack Cleaning	41
ST10TCBB	H0 - Turbine Crane Buss Bars	21,630
ST110XXX	H1 - Major Initiatives	58,063
ST210XXX	H2 - Major Initiatives	245,412
HGMFGX	HG - Limestone Grinding	63,826
RD110USO	R1 - 10 Unscheduled Outage	7,875
RD1USO	R1 - Unscheduled Outage	188,450
RDMASH	R1 - Ash Handling	145,605
RDMBFW	R1 - Feedwater System	26,213
RDMCDS	R1 - Condensate System	1,960
RDMCW	R1 - Cooling Water System	3,193
RDMCWS	R1 - Circ Water/Cooling Towers	28,589
RDMEDT	R1 - Switchgear/Bus	113,429
RDMEL	R1 - Elevators	16,871
RDMENV	R1 - CEM	23,989
RDMFOS	R1 - Fuel Oil System	5,999
RDMHVC	R1 - HVAC	41,403
RDMOHC	R1 - Overhead Cranes & Hoists	3,683
RDMPFP	R1 - Winterization	25,634
RDMPLS	R1 - Plant Lighting System	21,150
RDMSGU	R1 - Boilers & Burners	274,625
RDMSGUFDE	R1 - Fans/Draft System	28,985
RDMSGUFPE	R1 - Mills and Feeders	52,497
RDMSGUPCP	R1 - Precipitators	62,987
RDMTGN	R1 - Turbine/Generator	30,379
RGHMCHEQP	RGSII - FH-Mtc Mobile Fuels Eq	46,875
RGHMCMSM	RGSII - Mtc Consummables	223
RGHMCWSIRE	RGSII - Intake River Equip	233
RGHMHVC	RGSII - HVAC	424

**Big Rivers Electric Corporation**  
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**Historical Cost Budget Worksheet - Reid/SII 2010**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
RGHMNFEQP	RGSII - Mtc Non-Fuels Equip	33,225
RGHM PST	RGSII - Site Mtce/Improvements	5,359
RHMASH	RSII - Ash Handling	24,522
RHMCHEQP	RSII - FH-Mtc Mobile Fuels Eq	254
RHMCHS	RSII - Fuel Conveying System	192,145
RHMCHSBUS	RSII - Coal Unloading Barge	249,694
RHMCSM	RSII - Consummables	266,228
RHMCWSINT	RSII - Screenwell Maintenance	1,937
RHMDWS	RSII - Demnrlzd Water Syst.	3,852
RHMFPS	RSII - Fire Protection	31,869
RHMGEU	RSII - General Use Equipment	19,385
RHMHVC	RSII - HVAC	9,747
RHMMBBLU	RSII - Plant Lubrication	1,973
RHMMBBMT	RSII - BU Maintenance Training	371
RHMPAS	RSII - Air System	93,398
RHMPCM	RSII - Plant Communications	209
RHMPLS	RSII - Plant Lighting System	18,407
RHM PST	RSII - Site Mtce/Improvements	120,574
RHM PVEH	RSII - Mtc Plant Vehicles	25,934
RHM PWS	RSII - Potable Water System	7,508
RHMTR	RSII - Mtc Tool Room	28,892
RHMWTS	RSII - Sumps	8,386
RHMWWS	RSII - Waste Water Treatment	251
ST1USO	H1 - Unscheduled Outage	169,758
ST210USO	H2 - 10 Unscheduled Outage	98,607
ST2USO	H2 - Unscheduled Outage	199,465
STMASH	SII - Ash Handling	369,936
STMBFW	SII - Feedwater System	75,470
STM CDS	SII - Condensate System	24,951
STMCHS	SII - Fuel Conveying System	42,532
STM CW	SII - Cooling Water System	2,051
STM CWS	SII - Circ Water/Cooling Twrs	145,859
STM EDT	SII - Switchgear/Bus	19,289
STMEL	SII - Elevators	39,487
STMENV	SII - CEM	72,411
STMFGD	SII - Mtc Scrubbers	269,811
STMFGXSS	SII - Scrubber System	113,419
STM FOS	SII - Fuel Oil System	57,921
STMHVC	SII - HVAC	71,085

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
STMOHC	SII - Overhead Cranes & Hoists	5,892
STMPAS	SII - Air System	92,837
STMPCS	SII - Plant Controls	23,861
STMPLC	SII - Controls/Computer Sys	135,030
STMRID	SII - Rec/Ind Devices	40,233
STMSCR	SII - Mtc SCR - Nox Reduction	127,176
STMSGU	SII - Boilers & Burners	575,346
STMSGUFDE	SII - Fans/Draft System	35,718
STMSGUFPE	SII - Mills and Feeders	118,753
STMTGN	SII - Turbine/Generator	182,160
BP0555	Labor - R/ST II Fuel Handling	3,608
RDOADM	R1 - Ops Administrative	180
RDOCHMEQ	R1 - FH - Mobile Fuels Equip	3,949
RDOLAB	R1 - Ops Laboratory	3,744
RDOSGU	R1 - Ops Boilers and Burners	87,039
RGHOADM	RGSII - Ops Administrative	32,559
RGHOCHCSM	RGSII - FH - Ops Consummables	602
RGHOCHMEQ	RGSII - FH - Mobile Fuels Eq	273
RGHOCHOIS	RGSII - FH - Ops O/S Indust Sv	17,807
RGHOCHPST	RGSII - FH - Ops Bldgs & Grnds	11,404
RGHOCHTR	RGSII - FH - Ops Tool Room	3,105
RGHOPST	RGSII - Ops Bldgs & Grnds	16,581
RHDREDGE	RSII - Dredging Ash Ponds	-
RHOADM	RSII - Ops Administrative	2,524
RHOCHBUS	RSII - FH - Ops Coal Unloading	8,510
RHOCHCSM	RSII - FH - Ops Consummables	4,893
RHOCHMEQ	RSII - FH - Mobile Fuels Equip	231
RHOCHOIS	RSII - FH - Ops Outside Indust	53,158
RHOCHPST	RSII - FH - Ops Buildings & Gr	23,509
RHOCHTR	RSII - FH - Ops Tool Room	3,294
RHOCSM	RSII - Ops Consummables	6,455
RHOIS	RSII - Ops Outside Industrial	129,266
RHOLAB	RSII - Ops Laboratory	10,262
RHOPST	RSII - Ops Buildings & Grounds	8,076
RHOPVEH	RSII - Ops Plant Vehicles	37,802
RHOTGN	RSII - Ops Turbine/Generator	140
RHOTR	RSII - Ops Tool Room	42,888
STOADM	SII - Ops Administrative	120,477
STOCHMEQ	SII - FH - Mobile Fuels Equip	94,367

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
STOCHS	SII - Fuel Handling	11,155
STOFGD	SII - Ops Scrubbers	453,158
STOLAB	SII - Ops Laboratory	362,443
STOPST	SII - Ops Buildings & Grounds	94,362
STOSCR	SII - Ops SCR - Nox Reduction	50,080
STOSGU	SII - Ops Boilers and Burners	127,324
STOSGUFPE	SII - Ops Mills and Feeders	106,572
STOTGN	SII - Ops Turbine/Generator	32,326
ST1PLO	H1 - Planned Outage	32,007
ST210SPG	H2 - 10 Spring Outage - Gen	2,390,777
ST210SPN	H2 - 10 Spring Outage - NOx	27,459
ST210SPO	H2 - 10 Spring Outage - Ops	221,053
ST210SPS	H2 - 10 Spring Outage - Scrub	167,421
ST210SPT	H2 - 10 Spring Outage - Turb	166,956
RDTRIPRM	R1 - Tripper Room Repairs	28,501
RHCLNTRIP	RH - TR Temp Lagging & Cleanup	49,820
ST2PLO	H2 - Planned Outage	2,962
MISC - 1601	Didn't hit projects - 1601	69,113
MISC - 1510	Didn't hit projects - 1510	37,291
<b>FDE O&amp;M Non-Labor GROSS Total</b>		<b><u>\$ 11,914,227</u></b>
HMPL Allocation		(3,145,208)
<b>FDE O&amp;M Non-Labor NET Total</b>		<b><u>\$ 8,769,019</u></b>

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
GT1PLO	GT - Planned Outage	-
GT10NGAS	GT - Natural Gas	4,668
GTMEDT	GT - Electrical Distribution	5,516
GTMFPS	GT - Fire Protection	-
GTMGEN	GT - General Maintenance	83,724
RD110CBFP	R1 - "C" Boiler Feed Pump	4,087
RD110CENT	R1 - Centac Overhaul	9,124
RD110PSE	R1 - Primary SHeat Elements	3,391
RDTRIPRM	R1 - Tripper Room Repairs	(28,501)
RD111XXX	R1 - 2011 Major Initiatives	-
RDIUSO	R1 - Unscheduled Outage	244,087
RDMASH	R1 - Ash Handling	17,438
RDMBFW	R1 - Feedwater System	7,713
RDMCDS	R1 - Condensate System	1,616
RDMCHS	R1 - Fuel Conveying System	20,611
RDMCW	R1 - Cooling Water System	1,200
RDMCWS	R1 - Circ Water/Cooling Towers	(2,385)
RDMEDT	R1 - Switchgear/Bus	29,051
RDMEL	R1 - Elevators	22,340
RDMENV	R1 - CEM	9,606
RDMFOS	R1 - Fuel Oil System	1,251
RDMHVC	R1 - HVAC	246
RDMOHC	R1 - Overhead Cranes & Hoists	15,022
RDMPCS	R1 - Controls/Computer Systems	-
RDMPFP	R1 - Winterization	20,729
RDMPLS	R1 - Plant Lighting System	3,147
RDMRID	R1 - Rec/Ind Devices	5,247
RDMMSGU	R1 - Boilers & Burners	313,902
RDMMSGUFDE	R1 - Fans/Draft System	19,583
RDMMSGUFPE	R1 - Mills and Feeders	65,548
RDMTGN	R1 - Turbine/Generator	41,682
RDMMSGUPCP	R1 - Precipitators	-
RHCLNTRIP	RH - TR Temp Lagging & Cleanup	(829)
RHASSP	RH - "A" Silo Sump Pump	10,885
RHMASH	RSII - Ash Handling	304,999
RHMCSM	RSII - Consumables	343,434
RHMCWSINT	RSII - Screenwell Maintenance	21,979
RHMDWS	RSII - Demnrlzd Water Syst.	9,519
RHMFPS	RSII - Fire Protection	22,797
RHMGEU	RSII - General Use Equipment	52,842

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
RHMHVC	RSII - HVAC	100,474
RHMMBBLU	RSII - Plant Lubrication	508
RHMMBBMT	RSII - BU Maintenance Training	7,483
RHMNFEPQ	RSII - Mtc Non-Fuels Equipment	-
RHMPAS	RSII - Air System	49,728
RHMPCM	RSII - Plant Communications	4,386
RHMPCS	RSII - Controls/Computer Sys	26,119
RHMPLS	RSII - Plant Lighting System	54,199
RHMPST	RSII - Site Mtce/Improvements	82,733
RHMPVEH	RSII - Mtc Plant Vehicles	25,248
RHMPWS	RSII - Potable Water System	47,768
RHMSGU	RSII - Boilers & Burners	3,514
RHMTR	RSII - Mtc Tool Room	25,576
RHMWTS	RSII - Sumps	58,757
RHMWWS	RSII - Waste Water Treatment	11,031
RHMCHEQP	RSII - FH-Mtc Mobile Fuels Eq	23,613
RHMCHS	RSII - Fuel Conveying System	441,318
RHMCHSBUS	RSII - Coal Unloading Barge	88,206
RGHMCHEQP	RGSII - FH-Mtc Mobile Fuels Eq	(23,514)
RGHMCHVEH	RGSII - FH-Mtc Plant Vehicles	3,477
RGHMCSM	RGSII - Mtce Consummables	1,071
RGHMCWSIRE	RGSII - Intake River Equip	18,030
RGHMHVC	RGSII - HVAC	1,248
RGHMNFEPQ	RGSII - Mtc Non-Fuels Equip	-
RGHMPST	RGSII - Site Mtce/Improvements	9,783
RGHMPVEH	RGSII - Mtc Plant Vehicles	-
ST1PLO	H1 - Planned Outage	1,306,129
ST2PLO	H2 - Planned Outage	86,423
ST10TCBB	H0 - Turbine Crane Buss Bars	(2,091)
ST111AMFS	H1 - "A" Mass Flow/Screw Fdr	140,807
ST110ASHA	H1 - 2010 "A" Ash Sluice Pump	1,480
ST111XXX & ST211XXX	H1 & H2 - 2011 Major Initiatives	-
BP0605	RSII - Labor - Maintenance	114
ST1USO	H1 - Unscheduled Outage	497,784
ST210USO	H2 - 10 Unscheduled Outage	6,484
ST2USO	H2 - Unscheduled Outage	526,382
STMASH	SII - Ash Handling	454,982
STMBFW	SII - Feedwater System	69,973
STMCDs	SII - Condensate System	38,878

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
STMCHS	SII - Fuel Conveying System	132,049
STMCW	SII - Cooling Water System	6,688
STMCWS	SII - Circ Water/Cooling Twrs	172,278
STMEDT	SII - Switchgear/Bus	119,776
STMEL	SII - Elevators	55,436
STMENV	SII - CEM	134,105
STMFOS	SII - Fuel Oil System	(45,994)
STMHVC	SII - HVAC	316
STMOHC	SII - Overhead Cranes & Hoists	13,476
STMPCS	SII - Plant Controls	24,100
STMPFP	SII - Winterization	-
STMPLC	SII - Controls/Computer Sys	163,839
STMRID	SII - Rec/Ind Devices	11,003
STMSGU	SII - Boilers & Burners	686,844
STMSGUFDE	SII - Fans/Draft System	41,383
STMSGUFPE	SII - Mills and Feeders	196,856
STMSGUPCP	SII - Precipitators	6,604
STMTGN	SII - Turbine/Generator	230,596
STMWWS	SII - Waste Water Treatment	22,463
ST011STK	H0 - Clean/Paint Scrubber Stck	194,592
STMFGD	SII - Mtc Scrubbers	451,830
STMFGXSS	SII - Scrubber System	(35,314)
STMSCR	SII - Mtc SCR - Nox Reduction	129,625
HGMFGX	HG - Limestone Grinding	63,211
RDOADM	R1 - Ops Administrative	433
RDCOALSORB	R1 - Coal Drying Agent	122,140
RDOCHMEQ	R1 - FH - Mobile Fuels Equip	59,480
RDOCHS	R1 - Fuel Handling	7,147
RDOLAB	R1 - Ops Laboratory	(3,744)
RDOSGU	R1 - Ops Boilers and Burners	29,550
RDOSGUFPE	R1 - Ops Mills and Feeders	4,752
BP0555	RSII - Labor - Fuel Handling	(3,608)
RHOADM	RSII - Ops Administrative	19,307
RHOCHBUS	RSII - FH - Ops Coal Unloading	9,781
RHOCHCSM	RSII - FH - Ops Consummables	497
RHOCHMEQ	RSII - FH - Mobile Fuels Equip	72
RHOCHOIS	RSII - FH - Ops Outside Indust	56,537
RHOCHPST	RSII - FH - Ops Buildings & Gr	31,411
RHOCHTR	RSII - FH - Ops Tool Room	-
RHOCSM	RSII - Ops Consummables	9,246

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
RHOIS	RSII - Ops Outside Industrial	192,379
RHOLAB	RSII - Ops Laboratory	1,362
RHOPST	RSII - Ops Buildings & Grounds	36,044
RHOPVEH	RSII - Ops Plant Vehicles	37,328
RHOSGU	RSII - Ops Boilers and Burners	729
RHOTGN	RSII - Ops Turbine/Generator	-
RHOTR	RSII - Ops Tool Room	40,894
RGHOADM	RGSII - Ops Administrative	151,117
RGHOCHCSM	RGSII - FH - Ops Consummables	5,270
RGHOCHMEQ	RGSII - FH - Mobile Fuels Eq	7,550
RGHOCHTR	RGSII - FH - Ops Tool Room	23,500
RGHOCHOIS	RGSII - FH - Ops O/S Indust Sv	3,145
RGHOCHPST	RGSII - FH - Ops Bldgs & Grnds	13,733
RGHOLAB	RGSII - Ops Laboratory	220
RGHOPST	RGSII - Ops Bldgs & Grnds	84,238
ST1PLO-OP	H1 - Planned Outage - OPS	123,529
STOADM	SII - Ops Administrative	14,501
STDREDGE	STII - Dredging Ash Ponds	-
STINVADJ	SII - Inventory Adjustment	468
STOSGU	SII - Ops Boilers and Burners	44,191
STOSGUFPE	SII - Ops Mills and Feeders	71,234
STOTGN	SII - Ops Turbine/Generator	14,435
STOPST	SII - Ops Buildings & Grounds	28,892
ST11VAC	H0 - Vacuum Clean All Units	16,533
STCOALSORB	SII - Coal Drying Agent	586,988
STOCHMEQ	SII - FH - Mobile Fuels Equip	159,326
STOCHS	SII - Fuel Handling	34,154
STOLAB	SII - Ops Laboratory	317,288
STOFGD	SII - Ops Scrubbers	395,126
STOSCR	SII - Ops SCR - Nox Reduction	92,558
STREJECTS	Station Two Rejects	66,166
<b>FDE O&amp;M Non-Labor GROSS Total</b>		<b>\$ 11,555,031</b>
HMPL Allocation		(3,644,719)
<b>FDE O&amp;M Non-Labor NET Total</b>		<b>\$ 7,910,311</b>



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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
GT1PLO	GT - Planned Outage	-
GTMEDT	GT - Electrical Distribution	1,243
GTMFPS	GT - Fire Protection	-
GTMGEN	GT - General Maintenance	185,816
GTOLAB	GT-Laboratory	(62)
RD1PLO	R1 - Planned Outage	1,056
RD1MCR	R1 - Major Conduit Repair	-
RDLAYUP	R1 - Lay-up	35,669
RD110PSE	R1 - Primary SHeat Elements	3,298
RD1USO	R1 - Unscheduled Outage	78,408
RDMASH	R1 - Ash Handling	178
RDMBFW	R1 - Feedwater System	352
RDMCDS	R1 - Condensate System	7,076
RDMCHS	R1 - Fuel Conveying System	10,044
RDMCW	R1 - Cooling Water System	-
RDMCWS	R1 - Circ Water/Cooling Towers	18,528
RDMEDT	R1 - Switchgear/Bus	26,134
RDMEL	R1 - Elevators	26,241
RDMENV	R1 - CEM	6,598
RDMFOS	R1 - Fuel Oil System	6,534
RDMHVC	R1 - HVAC	129
RDMOHC	R1 - Overhead Cranes & Hoists	2,801
RDMPCS	R1 - Controls/Computer Systems	931
RDMPPF	R1 - Winterization	12,853
RDMRID	R1 - Rec/Ind Devices	88
RDMSGU	R1 - Boilers & Burners	78,383
RDMSGUFDE	R1 - Fans/Draft System	10,737
RDMSGUFPE	R1 - Mills and Feeders	123,389
RDMSGUPCP	R1 - Precipitators	17,499
RDMTGN	R1 - Turbine/Generator	13,990
RHAPOND	RH - Ash Pond Dam Repairs & Inspe	-
RHASP	RH - "B" Ash Sluice Pump	-
RHBACINSP	RH - "B" Elliot Air Compressor 5-Ye	-
RHBMCELL	RH - Barge Mooring Cell Inspection &	-
RHBUFEED1	RH - Rebuild #1 Barge Unloader Feed	-
RHBUOEM	RH - Barge Unloader OEM Repairs	-
RHCENTAC	RH - Centac Coolers	-
RHCIRCWP3	RH - Overhaul #3 Circulating Water p	-
RHCLZONE1	RH - Rebuild #1 Conveyor Load Zone	-
RHCOCC1	RH - Rebuild #1 Conveyor Outlet Co	-
RHCSC2B	RH - Concrete Support Column on 2E	-
RHCTC2B	RH - Rebuild 2B Conveyor Telescopi	-
RHFEED4A	RH - 4A Feeder (5-A Raw River Recl	-
RHFEED4B	RH - 4B Feeder (5-A Raw River Recl	-
RHRCLF3A	RH - Rebuild 3A Reclaim Feeder	-

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
RHRCLF3C	RH - Rebuild 3C Reclaim Feeder	20,965
RHBUOEM	RH - Barge Unldr OEM Insp	11,466
RHCONV5AB	RH - Idlers & Repair 5A&B Conv	20,082
RHCONV6AB	RH - Idlers & Repair 6A&B Conv	38,688
RHRRRW5A	RH - 5A Raw River Reclaim Walkwa	56,381
RHMASH	RSII - Ash Handling	203,669
RHMCHEQP	RSII - FH-Mtc Mobile Fuels Eq	2,570
RHMCHS	RSII - Fuel Conveying System	379,471
RHMCHSBUS	RSII - Coal Unloading Barge	203,873
RHMCSTM	RSII - Consummables	373,488
RHMCWSINT	RSII - Screenwell Maintenance	251,665
RHMDWS	RSII - Demnrlzd Water Syst.	78,063
RHMFPS	RSII - Fire Protection	44,768
RHMGEU	RSII - General Use Equipment	29,474
RHMHVC	RSII - HVAC	105,188
RHMMBBLU	RSII - Plant Lubrication	181
RHMMBBMT	RSII - BU Maintenance Training	19,317
RHMNFEQP	RSII - Mtc Non-Fuels Equipment	-
RHMPAS	RSII - Air System	49,138
RHMPCM	RSII - Plant Communications	16,480
RHMPCS	RSII - Controls/Computer Sys	21,108
RHMPPF	RSII - Winterization	4,522
RHMPLS	RSII - Plant Lighting System	110,944
RHMPSST	RSII - Site Mtce/Improvements	72,109
RHMPPVEH	RSII - Mtc Plant Vehicles	39,466
RHMPPWS	RSII - Potable Water System	5,126
RHMTR	RSII - Mtc Tool Room	71,148
RHMWTS	RSII - Sumps	31,673
RHMWWS	RSII - Waste Water Treatment	7,253
RHCPAN1C	RSII - Catch Pan #1 Conveyor	53,759
RGHFSPAD	RGSII - Fuel Skid Pad	15,977
RGHMCHEQP	RGSII - FH-Mtc Mobile Fuels Eq	-
RGHMCWSIRE	RGSII - Intake River Equip	39,397
RGHMHVC	RGSII - HVAC	99
RGHMNFEQP	RGSII - Mtc Non-Fuels Equip	2,668
RGHMPLS	RGSII - Plant Lighting	10,218
RGHMPSST	RGSII - Site Mtce/Improvements	12,854
RGHMPPVEH	RGSII - Mtc Plant Vehicles	(1,895)
HGMFGX	HG - Limestone Grinding	86,518
ST1AASH	H1 - OH "A" Ash Sluice Pump	-
ST1ACTMUP	H1 - Rebuild "A" C/T Makeup Pump	-
ST1BCIR	H1 - "B" Circulating Water Pump (C/T	-
VACLINES	H0 - Vacuum Lines	82,273
ST1USO	H1 - Unscheduled Outage	746,825
ST2AMFS	H2 - OH "A" Mass Flow/Screwfeeder	-

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
ST2DASH	H2 - Rebuild "D" Ash Sluice Pump	-
ST2MFCF	H2 - Mass Flow Conveyor Foundati	-
ST2USO	H2 - Unscheduled Outage	497,468
STMASH	SII - Ash Handling	179,260
STMBFW	SII - Feedwater System	123,675
STMCD	SII - Condensate System	38,785
STMCHS	SII - Fuel Conveying System	68,438
STMCW	SII - Cooling Water System	6,307
STMCWS	SII - Circ Water/Cooling Twrs	129,339
STMEDT	SII - Switchgear/Bus	62,881
STMEL	SII - Elevators	52,900
STMENV	SII - CEM	135,402
STMFGD	SII - Mtc Scrubbers	92,732
STMFGXSS	SII - Scrubber System	63,871
STMFOS	SII - Fuel Oil System	12,627
STMHVC	SII - HVAC	2,890
STMNOSHAR	SII - Mtce No Share	46,012
STMOHC	SII - Overhead Cranes & Hoists	16,850
STMPAS	SII - Air System	(351)
STMPCS	SII - Plant Controls	6,392
STMPFP	SII - Winterization	-
STMPLC	SII - Controls/Computer Sys	115,862
STMRID	SII - Rec/Ind Devices	1,257
STMSCR	SII - Mtc SCR - Nox Reduction	248,453
STMSGU	SII - Boilers & Burners	701,533
STMSGUFDE	SII - Fans/Draft System	76,371
STMSGUFPE	SII - Mills and Feeders	194,176
STMSGUPCP	SII - Precipitators	15,392
STMTGN	SII - Turbine/Generator	168,431
STMWWS	SII - Waste Water Treatment	206
STREJECTS	Station Two Rejects	183,430
ST1PLO	H1 - Planned Outage	3,852,551
ST2PLO	H2 - Planned Outage	961,739
RDINVADJ	R1 - Inventory Adjustment	2,740
RDCOALSORB	R1 - Coal Drying Agent	38,343
RDOADM	R1 - Ops Administrative	3,483
RDOCHMEQ	R1 - FH - Mobile Fuels Equip	31,924
RDOCHS	R1 - Fuel Handling	1,692
RDOLAB	R1 - Ops Laboratory	4,778
RDOSGU	R1 - Ops Boilers and Burners	13,885
RDOTGN	R1 - Ops Turbine/Generator	842
RD1USO-OPS	R1 - Planned Outage - OPS	7,868
RHOADM	RSII - Ops Administrative	53,858
RHOCHBUS	RSII - FH - Ops Coal Unloading	11,923
RHOCHCSM	RSII - FH - Ops Consummables	-

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<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
RHOCHOIS	RSII - FH - Ops Outside Indust	62,392
RHOCHPST	RSII - FH - Ops Buildings & Gr	10,952
RHOCHTR	RSII - FH - Ops Tool Room	537
RHOCSM	RSII - Ops Consummables	9,257
RHOIS	RSII - Ops Outside Industrial	197,296
RHOLAB	RSII - Ops Laboratory	169,276
RHOPST	RSII - Ops Buildings & Grounds	39,546
RHOPVEH	RSII - Ops Plant Vehicles	28,878
RHOTGN	RSII - Ops Turbine/Generator	-
RHOTR	RSII - Ops Tool Room	30,599
RGHOADM	RGSII - Ops Administrative	156,789
RGHOCHCSM	RGSII - FH - Ops Consummables	11,858
RGHOCHMEQ	RGSII - FH - Mobile Fuels Eq	981
RGHOCHOIS	RGSII - FH - Ops O/S Indust Sv	4,000
RGHOCHPST	RGSII - FH - Ops Bldgs & Grnds	(2,945)
RGHOCHTR	RGSII - FH - Ops Tool Room	4,964
RGHOLAB	RGSII - Ops Laboratory	264
RGHOPST	RGSII - Ops Bldgs & Grnds	33,339
HGOADM	HSII - Administration	3,923
STCOALSORB	SII - Coal Drying Agent	184,362
STDREDGE	SII - Dredging Ash Ponds	6,515
STINVADJ	SII - Inventory Adjustment	11,301
STOADM	SII - Ops Administrative	7,574
STOCHMEQ	SII - FH - Mobile Fuels Equip	154,420
STOCHS	SII - Fuel Handling	22,560
STOFGD	SII - Ops Scrubbers	342,364
STOLAB	SII - Ops Laboratory	172,864
STOPST	SII - Ops Buildings & Grounds	1,631
STOSCR	SII - Ops SCR - Nox Reduction	85,615
STOSGU	SII - Ops Boilers and Burners	3,139
ST1USO-OP	H1 - Planned Outage - OP	26,673
ST1USO-OPS	H1 - Planned Outage - OPS	50,530
ST2USO-OPS	H2 - Planned Outage - OPS	66,606
STOSGUFPE	SII - Ops Mills and Feeders	107,072
STOTGN	SII - Ops Turbine/Generator	30,087
STONOSAR	SII - Ops No Share	436
ST1PLO-OP	H1 - Planned Outage - OPS	163,484
ST2PLO-OP	H2 - Planned Outage - OPS	93,970
<b>FDE O&amp;M Non-Labor GROSS Total</b>		<b><u>\$ 14,504,208</u></b>
HMPL Allocation		(4,539,582)
<b>FDE O&amp;M Non-Labor NET Total</b>		<b><u>\$ 9,964,626</u></b>

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment to Response for KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Wilson 2010**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
FGDCLEAN	WI-FGD/CSI Cleaning	83,811
MECLEANING	WI-ME Cleaning Project	89,380
OPCLEAN	WI-Oper Cleaning	50,212
W09FLOUT	WI- 2009 outage	(7,982)
W10OUTPL	W1 - outage	647,376
WLFREEZE	WLFREEZE	7,213
WLMASH	WLM Ash Handling	167,224
WLMBFW	WLM Boiler Feedwater System	116,415
WLMCD	WLM Condensate System	21,264
WLMCHS	WLM Coal Handling System	489,478
WLMCHSDUM	WLM Coal Hdlg Car Dumper	7,535
WLMCHSSR	WLM Stacker/Reclaimer	112,301
WLMCSM	WLM Consumables	247,954
WLMCSMIE	WI- I&E Consumables	74,772
WLMCW	WLM Cooling Water System	84,781
WLMCWS	WLM Circ Water System	288,801
WLMCWSINT	WLM Screenwell	102,918
WLMDWS	WLM Demineralized Water System	32,934
WLMEDT	WLM Switchgear/Bus	70,923
WLMEL	WLM Elevators	78,450
WLMENV	WLM CEM	177,732
WLMFGD	WLM Flue Gas Desulfurization	353,711
WLMFGDLSP	WLM Limestone Processing	125,116
WLMFGDSCB	WLM Scrubber Buildings	256,005
WLMFOS	WLM Fuel Oil System	1,025
WLMFPS	WLM Fire Protection Sys	63,838
WLMGEU	WLM Gen Use Equipment	36,533
WLMHVC	WLM HVAC Equipment	87,860
WLMHVCEXF	WLM Roof Exhaust/Vent Fans	47,664
WLMMBBMT	WLM Admin	9,158
WLMEX	WLM Mobile Fuels Equipment	622,697
WLMEXNFC	WLM Grounds Keeping	2,701
WLMOHC	WLM Ovhd Cranes/Hoists	25,179
WLMOTOR	WLMOTOR	1,488
WLMPAS	WLM Air System	33,592
WLMPCM	WLM Plant Communications	40,313
WLMPCSCAT	WLMPCSCAT	3,243
WLMPCSHT	WLM Plant Heat Trace	30,483
WLMPLS	WLM Plant Lighting System	122,463

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment to Response for KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Wilson 2010**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
WLMPST	WLM Plant Struct/Improve	340,310
WLMPWS	WLM Potable Water System	91,696
WLMRID	WLM Recording/Indicating Dev	5,881
WLMSCR	WLM SCR Mtce Exp	77,076
WLMSGU	WLM Steam Generating Unit	700,517
WLMSGUFDE	WLM Fans/Draft Equipment	24,497
WLMSGUFPE	WLM Mills & Feeders	673,774
WLMSGUPCP	WLM Precipitator	127,908
WLMSWD	WLM Solid Waste Disposal	493,162
WLMTGN	WLM Turbine/Generator	165,637
WLMTR	WLM Tool Room	21,034
WLMVEH	WLM Vehicles	43,910
WLMWWS	WLM Waste Water Treatment	82,751
WLOADM	WLO Admin	387,573
WLOBARGE	WL Barge cleaning	12,598
WLOCHS	WLO Fuel Handling	12,837
WLOCSM	WLO Consumables	37,491
WLOFGD	WLO SDRS	121,757
WLOLAB	WLO Lab	743,494
WLOMEX	WLO Mobile Fuel Eq	256,189
WLOPST	WLO Buildings & Grounds	26,025
WLOPWS	WL potable water operations	84,378
WLORID	WL recording operations	1,351
WLOSGU	WLO Boilers & Burners	280,951
WLOTGN	WLO Turbine Generator	104,173
WLSLUSH	WI-Scrap Sales Rct & Misc Exp	(65,572)
WLSO3	WL-SO3	(4,500)
WLOENV	Environmental Operations	2,950
WLOSCR	WI-SCR Operation Exp	1,347
<b>FDE O&amp;M Non-Labor NET Total</b>		<b>\$ 9,657,755</b>

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment to Response for KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Wilson 2011**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
BP0860	Wilson Operations	2,094
CHENVIRO	W1-Coal Hndlg Enviro Cleaning	28,333
FGDCLEAN	W1-FGD/CSI Cleaning	37,712
MECLEANING	W1-ME Cleaning Project	46,485
OPCLEAN	W1-Oper Cleaning	52,728
W10OUTPL	W1 - outage	8,890
W11OUTPL	W1- 2011 outage	820,098
W12OUTPL	Wilson 2012 planned outage	1,487
WL992CAT	W1-992 Cat Mtce	3,229
WLD9HCAT	W1-D9H Cat Dozer Exp	444
WLD9R	W1-D9R Mtce	124,442
WLMASH	WLM Ash Handling	117,733
WLMBFW	WLM Boiler Feedwater System	18,029
WLMCDS	WLM Condensate System	124,303
WLMCHS	WLM Coal Handling System	610,002
WLMCHSDUM	WLM Coal Hdlg Car Dumper	9,230
WLMCHSSR	WLM Stacker/Reclaimer	65,227
WLMCSM	WLM Consumables	250,921
WLMCSMIE	W1- I&E Consumables	84,319
WLMCW	WLM Cooling Water System	2,723
WLMCWS	WLM Circ Water System	227,796
WLMCWSINT	WLM Screenwell	326,923
WLMDWS	WLM Demineralized Water System	101,228
WLMEDT	WLM Switchgear/Bus	51,395
WLMEL	WLM Elevators	42,997
WLMENV	WLM CEM	112,261
WLMFGD	WLM Flue Gas Desulfurization	799,542
WLMFGDLSP	WLM Limestone Processing	179,856
WLMFGDSCB	WLM Scrubber Buildings	235,632
WLMFOS	WLM Fuel Oil System	44,818
WLMFPS	WLM Fire Protection Sys	16,390
WLMGEU	WLM Gen Use Equipment	19,692
WLMHVC	WLM HVAC Equipment	133,073
WLMHVCEXF	WLM Roof Exhaust/Vent Fans	22,952
WLMMBBMT	WLM Admin	5,457
WLMMEX	WLM Mobile Fuels Equipment	433,600
WLMMEXNFC	WLM Grounds Keeping	7,868
WLMOHC	WLM Ovhd Cranes/Hoists	70,851
WLMPAS	WLM Air System	23,474

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment to Response for KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Wilson 2011**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
WLMPCM	WLM Plant Communications	10,245
WLMPCS	WLM-Plant Control Systems	5,276
WLMPCSHT	WLM Plant Heat Trace	92,832
WLMPLS	WLM Plant Lighting System	114,583
WLMPST	WLM Plant Struct/Improve	481,787
WLMPWS	WLM Potable Water System	159,040
WLMRID	WLM Recording/Indicating Dev	7,302
WLMSCR	WLM SCR Mtce Exp	52,326
WLMMSGU	WLM Steam Generating Unit	537,162
WLMMSGUFDE	WLM Fans/Draft Equipment	55,034
WLMMSGUFPE	WLM Mills & Feeders	1,261,251
WLMMSGUPCP	WLM Precipitator	62,713
WLMSWD	WLM Solid Waste Disposal	541,687
WLMTGN	WLM Turbine/Generator	82,176
WLMTR	WLM Tool Room	31,947
WLMVEH	WLM Vehicles	59,226
WLMWWS	WLM Waste Water Treatment	76,620
WLOADM	WLO Admin	375,118
WLOBARGE	WL Barge cleaning	13,038
WLOCHS	WLO Fuel Handling	34,264
WLOCSM	WLO Consumables	38,233
WLOENV	Environmental Operations	28,569
WLOFGD	WLO SDRS	74,640
WLOLAB	WLO Lab	1,016,367
WLOLDF	WLO Landfill	6,597
WLOMEX	WLO Mobile Fuel Eq	328,125
WLOPST	WLO Buildings & Grounds	49,684
WLOPWS	WL potable water operations	(5,852)
WLORID	WL recording operations	102,618
WLOSGU	WLO Boilers & Burners	62,956
WLOSGUFPE	WL operations mills	13,888
WLOTGN	WLO Turbine Generator	49,058
WLSLUSH	WI-Scrap Sales Rct & Misc Exp	(93,138)
WLTIGER	WI-690 Tiger Eqmt Mtce	3,779
WLTUGBOAT	WI-Ms. Debbie Tug O&M	2,249
<b>FDE O&amp;M Non-Labor NET Total</b>		<b>\$ 10,995,638</b>



**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Wilson 2012**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
CHENVIRO	WI-Coal Hndlg Enviro Cleaning	90,000
FGDCLEAN	WI-FGD/CSI Cleaning	80,000
MECLEANING	WI-ME Cleaning Project	174,000
OPCLEAN	WI-Oper Cleaning	67,460
W12OUTPL	Wilson 2012 planned outage	6,746,440
WL544C	WI-544C Eqmt Exp	3,690
WL992CAT	WI-992 Cat Mtce	116,760
WLD9HCAT	WI-D9H Cat Dozer Exp	55,992
WLD9R	WI-D9R Mtce	75,965
WLMASH	WLM Ash Handling	221,039
WLMBFW	WLM Boiler Feedwater System	38,396
WLMCDS	WLM Condensate System	45,601
WLMCHS	WLM Coal Handing System	710,471
WLMCHSSR	WLM Stacker/Reclaimer	24,804
WLMCSM	WLM Consumables	264,000
WLMCSMIE	WI- I&E Consumables	83,544
WLMCW	WLM Cooling Water System	16,122
WLMCWS	WLM Circ Water System	115,611
WLMCWSINT	WLM Screenwell	31,085
WLMDWS	WLM Demineralized Water System	10,184
WLMEDT	WLM Switchgear/Bus	187,243
WLMEL	WLM Elevators	50,923
WLMENV	WLM CEM	300,334
WLMFGD	WLM Flue Gas Desulfurization	743,924
WLMFGDLSP	WLM Limestone Processing	178,647
WLMFGDSCB	WLM Scrubber Buildings	199,729
WLMFPS	WLM Fire Protection Sys	46,251
WLMGEU	WLM Gen Use Equipment	8,594
WLMHVC	WLM HVAC Equipment	61,527
WLMLAB	WLM Lab	95,000
WLMMEX	WLM Mobile Fuels Equipment	361,465
WLMMEXNFC	WLM Grounds Keeping	12,095
WLMOHC	WLM Ovhd Cranes/Hoists	106,090
WLMPAS	WLM Air System	54,206
WLMPCM	WLM Plant Communications	115,396
WLMPCSHT	WLM Plant Heat Trace	57,437
WLMPLS	WLM Plant Lighting System	84,872
WLMPST	WLM Plant Struct/Improve	169,467
WLMPWS	WLM Potable Water System	18,247

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**Attachment for Response to KIUC 1-43(a)**  
**Historical Cost Budget Worksheet - Wilson 2012**

<b>Project No</b>	<b>Project Name</b>	<b>Act (YTD)</b>
WLMSCR	WLM SCR Mtce Exp	84,872
WLMMSGU	WLM Steam Generating Unit	855,664
WLMMSGUFDE	WLM Fans/Draft Equipment	30,388
WLMMSGUFPE	WLM Mills & Feeders	1,143,883
WLMMSGUPCP	WLM Precipitator	50,748
WLMSWD	WLM Solid Waste Disposal	250,398
WLMTGN	WLM Turbine/Generator	102,166
WLMTR	WLM Tool Room	38,765
WLMVEH	WLM Vehicles	31,987
WLMWWS	WLM Waste Water Treatment	41,392
WLOADM	WLO Admin	642,280
WLOBARGE	WL Barge cleaning	18,300
WLOCHS	WLO Fuel Handling	20,094
WLOENV	Environmental Operations	62,500
WLOFGD	WLO SDRS	272,000
WLOLAB	WLO Lab	851,075
WLOMEX	WLO Mobile Fuel Eq	384,000
WLOPST	WLO Buildings & Grounds	26,732
WLORID	WL recording operations	67,500
WLOSCR	Wl-SCR Operation Exp	26,280
WLOSGU	WLO Boilers & Burners	241,050
WLOSGUFPE	WL operations mills	19,000
WLOTGN	WLO Turbine Generator	102,260
WLTIGER	Wl-690 Tiger Eqmt Mtce	113,496
<b>FDE O&amp;M Non-Labor NET Total</b>		<b><u>\$ 17,299,441</u></b>

**Big Rivers Electric Corporation  
Case No. 2013-00199**

**Attachment for Response to KIUC 1-43(a)  
Historical Cost Comparison 2010 - 2012**

<b>Plant</b>	<b>Year</b>	<b>Fuel</b>		<b>Reagent</b>		<b>Disposal</b>
Wilson	2010	\$	53,194,709	\$	7,075,777	\$ 1,736,120
Wilson	2011	\$	58,838,443	\$	7,698,319	\$ 1,757,215
Wilson	2012	\$	67,511,037	\$	6,338,677	\$ 1,198,908
Coleman	2010	\$	74,772,208	\$	1,361,338	\$ 1,517,815
Coleman	2011	\$	80,561,948	\$	1,648,201	\$ 1,475,309
Coleman	2012	\$	79,155,813	\$	1,742,442	\$ 1,576,849
Green	2010	\$	67,807,984	\$	9,066,076	\$ 984,609
Green	2011	\$	71,769,497	\$	9,771,831	\$ 890,141
Green	2012	\$	68,906,082	\$	8,968,519	\$ 856,868
R/SII	2010	\$	40,941,176	\$	4,315,137	\$ 531,271
R/SII	2011	\$	44,561,602	\$	4,846,490	\$ 616,646
R/SII	2012	\$	37,865,318	\$	4,661,366	\$ 556,970
BREC	2010	\$	236,716,078	\$	21,818,328	\$ 4,769,815
BREC	2011	\$	255,731,490	\$	23,964,841	\$ 4,739,311
BREC	2012	\$	253,438,250	\$	21,711,004	\$ 4,189,595

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**

KIUC 1-43b  
KIUC 1-43c

Attachments filed as confidential

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 44)** *According to Mr. Berry, Big Rivers is following the Load Concentration*  
2 *Analysis and Mitigation Plan that was submitted to the Commission in 2012. Does the*  
3 *Company believe that the assumptions that were made at the time that study was*  
4 *performed are still reasonable today? Please explain your response. In addition, please*  
5 *indicate if the Company has updated that study. If so, then please provide a copy of the*  
6 *updated study, and if not, then explain why the Company hasn't updated the study.*

7

8 **Response)** Yes, Big Rivers believes the initial assumptions made in the Load  
9 Concentration Analysis and Mitigation Plan are still reasonable. As a result, it has not  
10 updated that study, although it continues to evaluate the best options for implementing its  
11 plan. Please see Big Rivers' response to PSC 2-16.

12

13 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 45)** *Has the Company studied the potential permanent retirement of any of its*  
2 *generating units? If so, please provide the results and a copy of each such study along*  
3 *with a copy of all assumptions and workpapers, including all electronic spreadsheets with*  
4 *all formulas intact. The assumptions include, but are not limited to, environmental*  
5 *upgrade requirements, natural gas price forecasts, coal price forecasts, market capacity*  
6 *and energy price forecasts, and CO2 assumptions that were used in the study along with*  
7 *the assumptions, workpapers, and electronic spreadsheets with all formulas intact that*  
8 *were used to developed these assumptions. If not, please provide all reasons why it has*  
9 *not.*

10

11 **Response)** Please see Big Rivers' response to KIUC 1-51.

12

13 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 46)** *For each of the Wilson, Green, Coleman, Reid or HMP&L generating*  
2 *units:*

3 *a. Identify the estimated retirement date*

4 *b. Produce any analysis or assessment of the economics of continued*  
5 *operation of such unit*

6 *c. Produce any analysis or assessment of the impact that retirement of each*  
7 *unit would have on capacity adequacy, transmission grid stability,*  
8 *transmission grid support, voltage support, MISO "must-run" status or*  
9 *transmission system reliability*

10 *d. Identify any transmission grid upgrades or changes that would be needed to*  
11 *permit the retirement of any of the units*

12 *e. Produce any analysis or assessment of the need for the continued operation*  
13 *of each unit.*

14

15 **Response)**

16 *a. Per Big Rivers' 2012 Depreciation Study conducted by Burns & McDonnell*  
17 *Engineering, the expected retirement dates for Big Rivers' generating assets in*  
18 *"Scenario 1" on page II-4 of the Depreciation Study are as follows:*

**Case No. 2013-00199**

**Response to KIUC 1-46**

**Witnesses: Robert W. Berry (a-b, e) and David G. Crockett (c-d)**

**Page 1 of 3**

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1	Green Units 1 & 2	2041
2	HMP&L Units 1 & 2	2035
3	Reid Unit 1	2025
4	Wilson Unit 1	2045
5	Coleman Units 1, 2 & 3	2035

6           b.     Please see the CONFIDENTIAL 15-year Production Cost Model Run (May-  
7                     13 to Dec-28) attached to Big Rivers' response to PSC 2-14 that shows  
8                     Wilson and Coleman idled, then profitably back in service in May 2018 and  
9                     July 2019 respectively.

10           c.     Big Rivers has performed no analysis or assessment of generating unit  
11                     retirement impacts on capacity adequacy, transmission grid stability,  
12                     transmission grid support, voltage support, or transmission system reliability.  
13                     Big Rivers will be required to file an Attachment Y with MISO prior to any  
14                     unit retirement or suspension.

15           d.     Big Rivers has performed no studies to identify the transmission grid upgrades  
16                     or changes needed to allow for the retirement of any of the generating units  
17                     currently operating on its system. As stated above, Big Rivers will be



**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 required to file an Attachment Y with MISO prior to retiring or suspending  
2 the operation of any unit, at which time MISO will perform such an analysis.  
3 e. The results of the MISO Attachment Y indicates the Coleman units will be  
4 designated as SSR units until such time Century installs the necessary  
5 equipment to eliminate the SSR condition. The redacted version of the  
6 Attachment Y is attached to this response.

7

8 **Witnesses)** Robert W. Berry (a-b, e) and David G. Crockett (c-d)

**Attachment for Response to KIUC 1-46(e)  
Attachment Y Study Report**

---

**Attachment Y Study  
Coleman Units 1, 2 & 3: 443 MW Coal  
28 Month Suspension 9/01/2013 – 1/1/2016**

# **ATTACHMENT Y STUDY REPORT**

July 18, 2013

DRAFT

**PUBLIC/REDACTED**

## **EXECUTIVE SUMMARY**

The completed Attachment Y Notification of Potential Generation Resource/SCU change of Status (Attachment Y Notice) submitted by Big Rivers Electric Cooperation (BREC) on May 24, 2013. The request was for suspension of units 1, 2 & 3 from September 1, 2013 to January 1, 2016.

After being reviewed for Transmission System reliability impacts as provided for under Section 38.2.7 of the MISO Open Access Transmission, Energy and Operating Reserve Markets Tariff (Tariff), MISO determined that potential reliability issues exist that would require the need for Coleman Units 1, 2 and 3 to enter into an System Support Resource (SSR) Agreement if a mitigation plan is not developed and implemented prior to the potential unit change of status.

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## I. INTRODUCTION

The completed Attachment Y Notification of Potential Generation Resource/SCU change of Status (Attachment Y Notice) submitted by BigRiversElectric Cooperation (BREC) on May 24, 2013. The request was for suspension of units 1,2 &3 from September 1, 2013 to January 1, 2016.

After being reviewed for Transmission System reliability impacts as provided for under Section 38.2.7 of the MISO Open Access Transmission, Energy and Operating Reserve Markets Tariff (Tariff), MISO determined that potential reliability issues exist that would require the need for Coleman Units 1, 2 and 3 to enter into an System Support Resource (SSR) Agreement if a mitigation plan is not developed and implemented prior to the potential unit change of status.

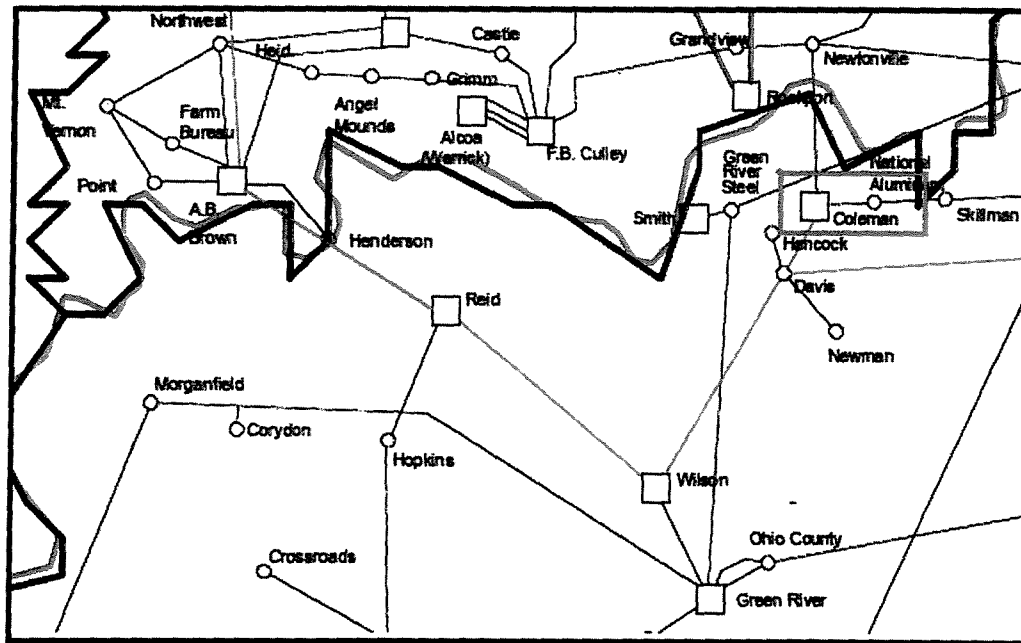


Figure 1: General Location of the Coleman Plant in Northern Kentucky

## II. STUDY OBJECTIVES

The purpose of this study was to assess the reliability impacts from the suspension of the Coleman Station coal generation located in Hawesville, Kentucky. The operator of the Coleman generating station, BigRiversElectric Cooperation (BRPS), submitted an Attachment Y notification to MISO for the consideration of suspending the generating station effective from September 1, 2013 to January 1, 2016.

### III. MODELS AND ASSUMPTIONS

Corresponding to the anticipated suspension of the Coleman Units 1, 2, & 3 the following power system analysis source models were used for the study:

- 2014 Summer Peak
- 2014 Summer Peak with Stressed 2000MW MISO – TVA transfer
- 2017 Summer Peak
- 2017 Shoulder

The Attachment Y study models were created following the MISO Transmission Planning Business Practice Manual (BPM-020-r8) Section 6.2.2. This includes creating a set of models from each source model in which the units being studied are at full generation or taken out of service.

#### a. Model Assumptions

1. Load Sensitivity to Century Aluminium Plant (485 MW)

#### b. Transmission Projects

1. LGEE / KU Matanzas 161 kV Substation The new Matanzas 161 kV Substation has an anticipated in-service date of December 1, 2012. This new substation will be included in the 2014 and 2017 models since the substation will be in-service during the time Coleman Generation is unavailable.

**c. Table of Models**

n	Model	Coleman 1,2,3	Century Aluminum	Contingency Categories
1	2014SP	off	off	B, C1, C2, C5
2	2014SP	off	on	B, C1, C2, C5
3	2014SP	on	off	B, C1, C2, C5
4	2014SP	on	on	B, C1, C2, C5
5	2017SH	off	off	B, C1, C2, C3, C5
6	2017SH	off	on	B, C1, C2, C3, C5
7	2017SH	on	off	B, C1, C2, C3, C5
8	2017SH	on	on	B, C1, C2, C3, C5
9	2017SP	off	off	B, C1, C2, C5
10	2017SP	off	on	B, C1, C2, C5
11	2017SP	on	off	B, C1, C2, C5
12	2017SP	on	on	B, C1, C2, C5
13	2014SP Stressed	on	on	B, C1, C2, C5
14	2014SP Stressed	off	on at 338MW, with 200MVar cap bank at Coleman 161kV bus	B, C1, C2, C5

**IV. STUDY CRITERIA AND METHODOLOGY**

Siemens PTI's Power System Simulator for Engineering (PSS/E) and Managing and Utilizing System Transmission (MUST) were used to perform AC contingency analysis.

Two phases of study have been studied. In phase 1, the system impact of Coleman generating units were evaluated by comparing the contingency analysis study result of the before Coleman suspension and after Coleman suspension case. The models were solved with automatic control of Load Tap Changers (LTCs), phase shifters, DC taps, switched shunts enabled (regulating), and area interchange disabled. The results are compared to determine if there were any criteria violations due to the change in the status for the unit(s).

Since reliability issues have been identified in Phase 1 study, and Coleman Units are identified as required SSR units, Phase 2 study was performed to evaluate the potential alternative to mitigate the reliability issue caused by Coleman generating units' suspension. In this case, the potential reduction of Century Load was evaluated.

**a. Applicable Transmission Planning Criteria**

**MISO Transmission Owners**

AMIL Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for AMIL System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for AMIL System

AMIL Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, all substation voltages less than 95% or above 105%
- For Category B and C contingencies, all substation voltages less than 90% or above 110%

BREC Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for BREC System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for BREC System

BREC Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, all substation voltages less than 95% or above 105%
- For Category B and C contingencies, all substation voltages less than 92% or above 105%

DEI Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for DEI System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for BREC System

DEI Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 105%

HE Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for HE System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for HE System

HE Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 110%

SIGE Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for SIGE System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for SIGE System

SIGE Transmission Planning Criteria applied for the voltage analysis:



- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 95% or above 105%

SIPC Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for SIGE System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for SIGE System

SIPC Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 91% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 91% or above 105%

### **Non-MISO Transmission Owners**

LGEE Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for LGEE System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for LGEE System

LGEE Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 110%

TVA Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for TVA System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for TVA System

TVA Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 110%

AECI Transmission Planning Criteria applied for the thermal analysis:

- For Category A contingencies, all thermal loadings exceeding 100% of the normal rating for AECI System
- For Category B and C contingencies, all thermal loadings exceeding 100% of the emergency rating for AECI System

AECI Transmission Planning Criteria applied for the voltage analysis:

- For Category A contingencies, >100 kV substation voltages less than 95% or above 105%
- For Category B and C contingencies, >100 kV substation voltages less than 90% or above 110%

Under category C contingencies, for the valid thermal and voltage violations as specified above, generation re-dispatch, system reconfiguration, and/or load shedding will be considered if applicable.

#### **b. MISO Transmission Planning BPM - SSR Criteria**

As specified in MISO BPM-020-r7, the SSR criteria for determining if an identified facility is impacted by the generator's change of status will be:

- Under system intact and contingent events, branch thermal violations are only valid if the flow increase on the element in the "after" retirement scenario is equal to or greater than:
  - a) 5% of the "to-be-retired" unit(s) MW amount (i.e. 5% Power Transfer Distribution Factor (PTDF)) for a "base" violation compared with the "before" retirement scenario, or
  - b) 3% of the "to-be-retired" unit(s) amount (i.e. 3% Outage Transfer Distribution Factor (OTDF)) for a "contingency" violation compared with the "before" retirement scenario.
- Under system intact and contingent events, high and low voltage violations are only valid if the change in voltage is greater than 1% as compared to the "before" retirement voltage calculation.

#### **c. Contingencies**

A subset of the MISO Transmission Expansion Plan (MTEP) contingencies in the central region was used for AC contingency analysis. Additional contingencies from TVA, LG&E, and AECI were included in this analysis to provide coverage for events on those adjacent transmission systems.

The following North American Electric Reliability Corporation (NERC) Categories of contingencies were evaluated:

1. Category A when the system is under normal conditions.
2. Category B contingencies resulting in the loss of a single element.
3. Category C contingencies resulting in the loss of two or more (multiple) elements.
4. Maintenance outage condition with forced outage during shoulder load conditions.

## **V. STUDY RESULTS**

#### **a. Phase 1 Study Results**

##### **1 Branch Results (Appendix A Table 1a)**

Table 1a in Appendix A shows contingent conditions causing branch criteria violations without Coleman Units 1 & 2 & 3 and the improvements resulting from the operation of Coleman Units 1 & 2 & 3. Contingent events causing branch violations include NERC Categories B, C1, C2, and C3. While the study scenario with Century Aluminum off does indicate fewer constraints,

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there remain a few thermal loading issues resulting from Category C contingencies that exist in the MISO Transmission system even with the load removed.

## **2 Voltage Results (Appendix A Table 1b)**

Significant voltage criteria violations associated with the suspension of Coleman Units 1, 2, & 3 and continued operation of Century Aluminum were identified when compared to the continued availability of the units. Table 1 in Appendix A shows contingent conditions causing criteria violations without Coleman Units 1, 2, & 3 and the improvements resulting from the operation of Coleman Units 1, 2, & 3. Contingent events causing voltage criteria violations include NERC Categories B, C1, C2, and C3. The acceptable post-contingency voltage range is between 0.92 per unit to 1.05 per unit. Therefore, voltages less than 0.92 or greater than 1.05 per unit are a criteria violation. If Century Aluminum were to cease operations, with a load of 0 MVA, the voltage issues within the MISO would be eliminated.

### **b. Phase 2 Study Results**

#### **1 FCITC Transfer Study**

FCITC studies were performed to determine the maximum Century Loading without causing transmission system violation.

Three scenarios were studied to determine the maximum Century Loading

- 2014 summer peak
- 2017 summer shoulder
- 2014 summer peak with stressed 2000MW MISO-TVA transfer

The Stressed 2014 summer peak scenario was identified as the worst scenario. The maximum Century Loading was identified as 338MW under system intact and N-1 condition, 200MVar Capacitor Bank at Coleman 161kV bus is required to mitigate voltage violations. The most limiting element is Newtonville – Coleman 161 kV branch and the most critical contingency is [REDACTED].

The Prior-outage scenario was evaluated using the 2014 summer peak stressed case, the maximum Century Loading was identified as 132MW under prior outage of [REDACTED]. The most limiting element is Newtonville – Coleman 161 kV branch and the most critical contingency is [REDACTED]. The results are available at Appendix B.

#### **2 Voltage Analysis (PV analysis) on C3 Contingency Event**

The C3 contingency events was studied and the not-converged (blow up) event was selected for PV analysis. The double outage of [REDACTED] was identified causing voltage collapse.

PV analysis was performed to identify the maximum century loading before the voltage collapse. Figure below shows the PV curve of the transfer from AMIL to Century Load. The maximum Century Load before voltage collapse was identified as 230MW.

The study assumptions are summarized as follows,

- Study case: 2014 Summer Peak with 2000MW transfer from MISO to TVA
- C3 Contingency: [REDACTED]
- Capacitor Bank: 200Mvar Capbank at Coleman 161kV bus
- Transfer: AMIL to Century Load

Figure 2 below shows the PV curve of power transfer from AMIL to Century Load against bus voltage of Coleman 161kV bus, Skillman 161kV bus and Davis 161kV bus under [REDACTED]. The maximum Century Load before voltage collapse was identified as 230MW.

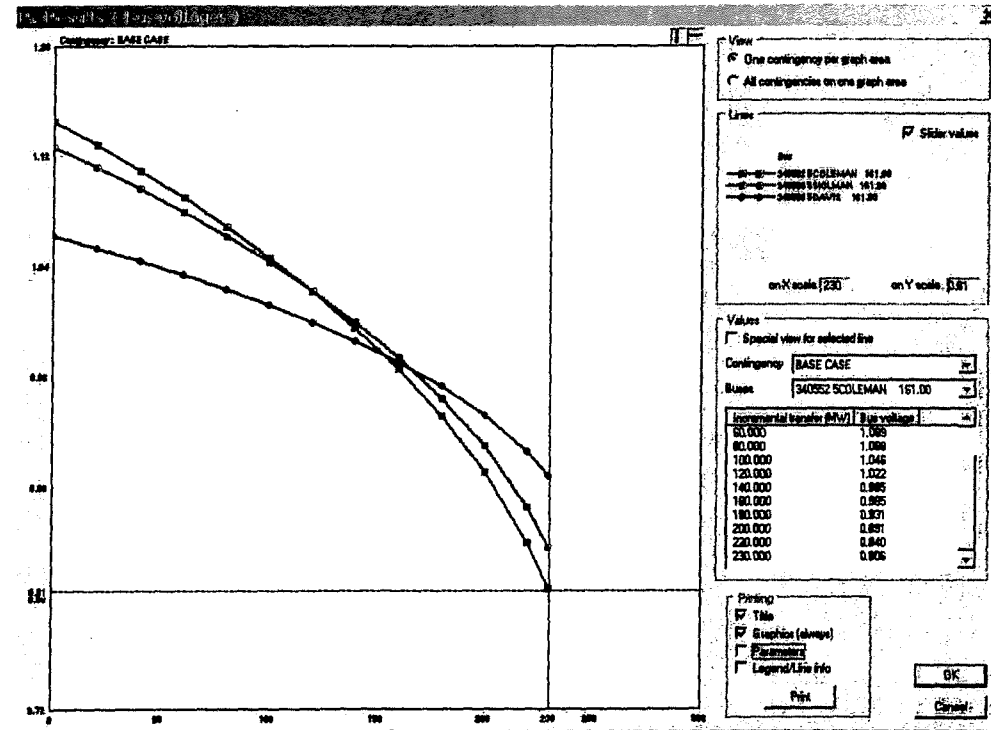


Figure 2: PV Curve on Dbl Contingency of [REDACTED]

## VI. CONCLUSION

The study results indicate that potential reliability issues exist which would require the need for Coleman Units 1, 2 and 3 to enter into an SSR Agreement if a mitigation plan is not developed and implemented prior to the potential unit change of status, in accordance with Section 38.2.7 of the MISO Open Access Transmission, Energy & Operating Reserve Markets Tariff ("Tariff"). In

addition to determining if reliability issues result from the suspension, further analysis was performed to identify the areas that are subject to allocation of the SSR costs. The areas identified for the cost allocation are Big Rivers Electric Corporation (BREC) and Southern Illinois Gas & Electric (SIGE).

The reduction of Century Load is identified as a potential alternative to avoid entering Coleman SSR agreement. The reductions are summarized as follows,

#### ***Century Load Maximum Loading Study Result***

- System intact condition
  - Maximum Century Loading: 338MW
  - Most limiting element/Critical contingency
    - Newtonville – Coleman 161/[REDACTED]
- Prior outage condition
  - Maximum Century Loading: 132MW
  - Most limiting prior outage
    - [REDACTED]
  - Most limiting element/Critical contingency under prior outage
    - Newtonville – Coleman 161 / [REDACTED]
- Voltage Collapse
  - Maximum Century Loading: 230MW
  - Most limiting C3 Contingency
    - [REDACTED]

## **VII. SSR AGREEMENT COST ALLOCATION**

MISO utilizes a load shed methodology to determine the reliability benefits to each MISO Local Balancing Area (LBA) of operation, without the SSR unit(s). Although load shed is not permitted for NERC Category A or B events, this methodology determines the load shed amount needed to relieve all Category B reliability issues and the most severe Category C reliability issues identified, as a proxy for the reliability benefit of the SSR unit operation. The potential SSR Agreement LBA shares that were calculated for this Attachment Y-2 study are included below in Table 2.

**Table 2: SSR Agreement LBA Shares**

<b>LBA</b>	<b>Load Shed (MW)</b>	<b>LBA Share</b>
BREC	1504	99.5%
SIGE	7	.5%
Total	1511	100.00%

## **VIII. ANALYSIS OF ALTERNATIVES**

### **c. New Generation or Generation Redispatch**

No new dispatchable generation is currently planned for the impacted region.

### **d. System Reconfiguration and Operation Guidelines**

Currently no operating procedures are available that would address specific contingency events to maintain transmission loading within limits

### **e. Demand Response or Load Curtailment**

FCITC studies were performed to determine the maximum Century Loading without causing transmission system violation.

Three scenarios were studied to determine the maximum Century Loading

- 2014 summer peak
- 2017 summer shoulder
- 2014 summer peak with stressed 2000MW MISO-TVA transfer

The Stressed 2014 summer peak scenario was identified as the worst scenario. The maximum Century Loading was identified as 338MW under system intact and N-1 condition, 200MVar Capacitor Bank at Coleman 161kV bus is required to mitigate voltage violations. The most limiting element is Newtonville – Coleman 161 kV branch and the most critical contingency is [REDACTED].

The Prior-outage scenario was evaluated using the 2014 summer peak stressed case, the maximum Century Loading was identified as 132MW under prior outage of [REDACTED]. The most limiting element is Newtonville – Coleman 161 kV branch and the most critical contingency is [REDACTED].

The results are available at Appendix B.

The C3 contingency events were studied and the not-converged (blow up) event was selected for PV analysis. [REDACTED] was identified causing voltage collapse.

PV analysis was performed to identify the maximum century loading before the voltage collapse. Figure below shows the PV curve of the transfer from AMIL to Century Load. The maximum Century Load before voltage collapse was identified as 230MW.

**f. Transmission Projects**

BREC has not identified transmission upgrades that would be completed to alleviate the loading during the period of suspension. The loading is closely aligned with the local industrial load and mitigation by load curtailment is preferred during the suspension period.

## **IX. SUMMARY OF POTENTIAL SOLUTION**

The suspension period is from 2013 – 2016 and the unit is planned to return to service. This will forego any need for transmission upgrades since the load may be adequately managed by curtailment of industrial load.

Curtailment of load via demand response is one of the alternatives to relieve transmission system overload. Century load would need to be reduced to mitigate potential constraints. The maximum Century loading is 338MW under system intact conditions, 132MW under prior outage of [REDACTED] due to thermal loading and 230MW under prior outage of [REDACTED] to avoid potential voltage collapse.

A special protection scheme on Newtonsville to Coleman 161kV may provide automated post-contingent response to relieve the system constraints. While the Century plant may operate at 480MW under system intact conditions, curtailment of Century load to 230MW in following the contingent loss of [REDACTED] would be needed to avoid potential voltage collapse. Century Load will be reduced to 132MW at the outage of [REDACTED]. SPS may also be required in other branches with different settings.

## **X. APPENDICES**

### **Appendix A: Steady-State AC Contingency Results**

Table 1a: Branch Results

Table 1b: Voltage Results

### **Appendix B: FCITC Study Results**

Table 2a: 2014SP FCITC

Table 2b: 2017SH FCITC

Table 2c: 2014SP Stressed FCITC

Table 2d: 2014SP Stressed FCITC under Double Outage Condition

Table 2e: PSS/e verification on 2014SP Stressed Scenario



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**Table 2a: 2014SP FCITC(Century Load is modeled as 10MW initial value)**

From	To	Transfer Level	AC FCITC	DC FCITC	Delta FCITC	Limiting Constraint	Contingency	Woon	PreShift	PostShift	Rating	AC TDF	DC TDF	LODF	PTDF
AMIL	LD CENTURY	1000.0	331.9	367.0	-35.1	L1248435 07NMTVL1 161 340552 SCOLEMAN 161 1	[REDACTED]	1162	111.0	334.7	335.0	0.67398	0.64514	-	0.36806
							[REDACTED]								
			331.9	367.0	-35.1	L1248435 07NMTVL1 161 340552 SCOLEMAN 161 1	[REDACTED]		111.0	334.7	335.0	0.67398	0.64514	-	0.36806
							[REDACTED]								
			331.9	367.0	-35.1	L1248435 07NMTVL1 161 340552 SCOLEMAN 161 1	[REDACTED]		111.0	334.7	335.0	0.67398	0.64514	-	0.36806
							[REDACTED]								
			543.8	630.5	-86.6	L1340552 SCOLEMAN 161 340621 SCOLEEHV 161 2	[REDACTED]		49.8	334.8	335.0	0.52388	-0.52289	-	-0.33043
							[REDACTED]								
			543.8	630.6	-86.9	L1340552 SCOLEMAN 161 340621 SCOLEEHV 161 2	[REDACTED]		49.4	335.0	335.0	0.52512	-0.52289	-	-0.33043
							[REDACTED]								

**Table 2b: 2017SH FCITC(Century Load is modeled as 10MW initial value)**

From	To	Transfer Level	AC FCITC	DC FCITC	Delta FCITC	Limiting Constraint	Contingency	Woon	PreShift	PostShift	Rating	AC TDF	DC TDF	LODF	PTDF
AMIL	LD CENTURY	1000.0	391.5	353.0	-82.2	L1248435 07NMTVL1 161 340552 SCOLEMAN 161 1	[REDACTED]	2591	72.8	334.1	335.0	0.68488	0.63341	-	0.33698
							[REDACTED]								
			481.3	719.6	-238.4	L1340551 SREID 161 340559 SDAVIS 161 1	[REDACTED]		172.4	335.4	335.0	0.33873	0.22198	-	0.10687
							[REDACTED]								
			662.0	750.8	-88.8	L1248435 07NMTVL1 161 340552 SCOLEMAN 161 1	[REDACTED]		72.7	334.7	335.0	0.39583	0.38043	-	0.33698
							[REDACTED]								
			662.0	750.8	-88.8	L1248435 07NMTVL1 161 340552 SCOLEMAN 161 1	[REDACTED]		72.7	334.7	335.0	0.39583	0.38043	-	0.33698
							[REDACTED]								
			544.0	855.6	-311.6	L1340557 SRANCO 161 340559 SDAVIS 161 1	[REDACTED]		79.0	265.6	265.0	0.34287	-0.22198	-	-0.10687
							[REDACTED]								

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Table 2c: 2014SP Stressed FCIC (Century Load is modeled as 10MW as initial value)

From	To	Transfer Level	AC FCIC	DC FCIC	Delta FCIC	Limiting Constraint	Contingency	Wobe	PreShift	PostShift	Rating	AC TDF	DC TDF	LODF	PTDF
AMIL	LD CENTURY	1000.0	307.5	348.7	-41.2	L1248435 07NWTVL1 161 340552 SCOLEMAN 161 1	(REDACTED)	1167	123.2	334.6	335.0	0.68752	0.64547	-	0.36849
							(REDACTED)								
			307.5	348.7	-41.2	L1248435 07NWTVL1 161 340552 SCOLEMAN 161 1	(REDACTED)	2607	123.2	334.6	335.0	0.68752	0.64547	-	0.36849
							(REDACTED)								
			307.5	348.7	-41.2	L1248435 07NWTVL1 161 340552 SCOLEMAN 161 1	(REDACTED)	1168	123.2	334.6	335.0	0.68752	0.64547	-	0.36849
							(REDACTED)								
			542.7	630.3	-87.6	L1340552 SCOLEMAN 161 340621 SCOLEHV 161 2	(REDACTED)	2423	49.9	334.6	335.0	0.52468	-0.52289	-	-0.33021
							(REDACTED)								
			541.7	630.6	-88.9	L1340552 SCOLEMAN 161 340621 SCOLEHV 161 2	(REDACTED)	1193	49.4	334.1	335.0	0.52558	-0.52289	-	-0.33021
							(REDACTED)								

Table 2d: 2014SP Stressed FCIC under Double Outage Condition (Century Load is modeled as 10MW as initial value)  
(to Capture Prior-outage Impact)

From	To	Transfer Level	AC FCIC	DC FCIC	Delta FCIC	Limiting Constraint	Contingency	Wobe	PreShift	PostShift	Rating	AC TDF	DC TDF	LODF	PTDF
AMIL	LD CENTURY	1000.0	122.2	121.2	0.9	L1248435 07NWTVL1 161 340552 SCOLEMAN 161 1	(REDACTED)	209	252.5	334.9	335.0	0.67494	0.62089	-	0.36849
							(REDACTED)								
			183.2	172.1	11.1	L1248435 07NWTVL1 161 340552 SCOLEMAN 161 1	(REDACTED)	533	263.6	335.0	335.0	0.38952	0.45046	-	0.36849
							(REDACTED)								
			197.1	187.3	9.9	L1248435 07NWTVL1 161 340552 SCOLEMAN 161 1	(REDACTED)	161	255.0	335.0	335.0	0.40555	0.46281	-	0.36849
							(REDACTED)								
			177.7	202.0	-24.3	L1340551 5REID 161 340559 5DAVIS 161 1	(REDACTED)	4	232.9	335.3	335.0	0.57636	0.58200	-	0.10449
							(REDACTED)								
			NotCon	277.2	-277.2	L1340557 5BRANCO 161 340559 5DAVIS 161 1	(REDACTED)	4	****	****	****	*****	-0.58200	-	-0.10449
							(REDACTED)								

Table 2a: PSS/e Verification on 2014SP Stressed Case on the outage of MWEC\_B3

	Capacity Load (MW)	P	Q	E	T	MVA-Pathing	V.P.U.	V.V.P.	I- rankby	Current Loading	
Coleman	318	306.9	105.5	324.5271	1142.097196		335	1.019	164.059	1201.354	95.07%
Newtownsville	318	310.1	87.5	322.2084	1142.909792		335	1.011	162.771	1201.354	95.14%
Coleman	338	319.3	96	333.4194	1181.507757		335	1.012	162.932	1201.354	98.35%
Newtownsville	338	322.8	76.7	331.7872	1182.736096		335	1.006	161.966	1201.354	98.45%
Coleman	348	325.5	91.3	338.062	1201.521295		335	1.009	162.449	1201.354	100.01%
Newtownsville	348	329.1	71.2	336.7139	1202.689634		335	1.004	161.644	1201.354	100.11%

[REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]

## Big Rivers Electric Corporation - Case No. 2013-00199 Attachment for Response to KIUC 1-46(e) - Appendix A

MISO Coleman Units 1, 2, & 3 Attachment Y-2 Study - Compare Branch Results  
CONFIDENTIAL / CE# - DO NOT RELEASE

Model	Contingency Description	Limiting Element			Type	Rating	Coleman 1, 2, & 3 OFF			Coleman 1, 2, & 3 ON			Unit Impact		MISO Comments	
		From Bus	To Bus	Ckt			Base Cont MVA	Flow	Loading %	Base Cont MVA	Flow	Loading %	MW Off-Non	PIDF (> 5%)		OTUF (> 3%)
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	335.0	239.6	100.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	335.0	239.6	100.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	335.3	239.6	100.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	335.3	239.6	100.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY_69	69.0 1	LN	35	35.9	25.6	102.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY_69	69.0 1	LN	35	35.9	25.6	102.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY_69	69.0 1	LN	35	35.9	25.6	102.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	253580 10NTVL16	161 253581 10NTVL13	138 75	TR	176	217.4	91.9	123.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY_69	69.0 1	LN	35	35.9	25.6	102.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	253580 10NTVL16	161 253581 10NTVL13	138 75	TR	176	217.4	91.9	123.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	491.0	239.6	146.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY_69	69.0 1	LN	35	35.9	25.6	102.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	324643 2TRTLE CRK	108.0 324562 2HARGES7	69.0 1	LN	35	37.8	13.3	100.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	324643 2FOUR M	69.0 324666 2PINEV1	69.0 1	LN	32	33.6	15.4	105.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248631 08THRINTN	230 891964 THORNTWN	1.00 1	TR	69.9	67.3	48.7	125.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250310 08BRNCRGH	69.0 250451 08FLORAJ	69.0 1	LN	34	37.4	3.0	110.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250321 08BURROCK	69.0 250790 08ROCKFL	69.0 1	LN	34	47.6	6.1	139.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250441 08FRWSTJ	69.0 250457 08FRACK B	69.0 1	LN	100.3	112.0	57.8	111.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250451 08FLORAJ	69.0 250790 08ROCKFL	69.0 1	LN	34	43.6	4.5	128.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250457 08FRACK B	69.0 250683 08MIDLFO	69.0 1	LN	45	67.1	31.3	193.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250688 08KOK HP	69.0 250610 08KCHAJ1	69.0 1	LN	45	129.0	10.3	286.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250698 08KOK HP	69.0 250614 08KOSE	69.0 1	LN	65	69.7	44.0	107.2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250610 08KCHAJ1	69.0 250798 08RUSIAV	69.0 1	LN	45	129.5	10.3	287.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250625 08LAF	69.0 250948 08NVMONI	69.0 1	LN	45	69.9	18.0	148.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250683 08MIDLFO	69.0 250795 08RUSIAV	69.0 1	LN	44	52.7	6.1	119.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250683 08MIDLFO	69.0 250798 08RUSIAV	69.0 1	LN	44	150.2	9.6	341.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250795 08ROSSVA	69.0 250948 08NVMONI	69.0 1	LN	45	65.9	17.0	146.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	250847 08THRINTW	69.0 891964 THORNTWN	1.00 1	TR	69.9	64.1	47.2	120.4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	342.6	248.6	102.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	342.6	248.7	102.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	354.5	248.6	105.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	354.5	248.7	105.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	497.7	248.7	148.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY_69	69.0 1	LN	35	35.8	24.9	102.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	497.7	248.7	148.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY_69	69.0 1	LN	35	35.8	24.9	102.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	253510 10NE13	138 253511 10NE69	69.0 T2	TR	72	72.0	70.4	100.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	497.7	248.7	148.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY_69	69.0 1	LN	35	35.8	24.9	102.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248607 07DOGWOD	69.0 248608 07MAUKPT	69.0 1	LN	25	27.5	26.5	109.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248607 07DOGWOD	69.0 248608 07MAUKPT	69.0 1	LN	25	27.5	26.5	109.9	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	354.5	248.6	105.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	354.5	248.7	105.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16	161 1	LN	335	497.6	248.6	148.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 SCOLEMAN	161 1	LN	335	497.7	248.7	148.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension

## Big Rivers Electric Corporation - Case No. 2013-00199 Attachment for Response to KIUC 1-46(e) - Appendix A

MISO Coleman Units 1, 2, & 3 Attachment Y-2 Study - Compare Branch Results  
CONFIDENTIAL / CEN - DO NOT RELEASE

Model	Contingency Description	Lining Element		Type	Rating	Coleman 1, 2, & 3 OFF			Coleman 1, 2, & 3 ON			Unit Impact		MISO Comments	
		From bus	To bus			Base	Loading	Cont MVA	Base	Loading	Cont MVA	Base	Loading		PTDF (> 5%)
2017GP	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY 69	LN	35	35.6	24.9	102.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017GP	[REDACTED CONTINGENCY]	362186 2WATAUGA HP	69.0 362167 2ELIZABETHTN69.0 1	LN	58.4	62.7	61.4	107.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SPContoff	[REDACTED CONTINGENCY]	248607 07DOGWOD	69.0 248608 07HAUKPT 69.0 1	LN	25	28.2	27.2	112.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SPContoff	[REDACTED CONTINGENCY]	248607 07DOGWOD	69.0 248608 07HAUKPT 69.0 1	LN	25	28.2	27.2	112.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SPContoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	62.2	61.2	106.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SPContoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	60.0	61.2	102.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SPContoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	62.2	61.2	106.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	347946 4PANA	138 348786 4SCHRAMCY TP 138 1	LN	202	232.6	36.0	115.2	219.4	35.0	108.6	13.4	3.0248307	Violation made worse by suspension	
2017SH	[REDACTED CONTINGENCY]	348067 7RAMSEY	345 348068 4RAMSEY CIPS 138 1	TR	382	388.9	94.9	101.8	371.0	95.6	97.1	17.9	4.0406321	Violation caused by suspension	
2017SH	[REDACTED CONTINGENCY]	348067 7RAMSEY	345 348068 4RAMSEY CIPS 138 1	TR	382	388.3	94.9	101.7	370.5	95.6	97.0	17.8	4.0180587	Violation caused by suspension	
2017SH	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 253580 10NTVL16 161 1	LN	335	434.2	133.5	129.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	248435 07NWTVL1	161 340552 5COLEMAN 161 1	LN	335	434.4	133.6	129.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	248642 07MIDWAY	69.0 248661 07TRY 69 69.0 1	LN	35	37.1	24.6	106.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	324578 2HRDSTB	69.0 324769 2WALKRKY 69.0 1	LN	28	29.0	11.0	103.4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	324628 2MARI 6	69.0 324629 2MARONKU 69.0 1	LN	28	28.4	19.6	101.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.6	62.7	105.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	325077 5COLEMAN TAP 161	325078 5PADUCAH PR3 161 1	LN	245	251.4	181.2	102.6	236.0	172.3	95.3	15.4	3.476298	Violation caused by suspension	
2017SH	[REDACTED CONTINGENCY]	340618 5LIVING	161 360016 5MARSHALL KY 161 1	LN	223	238.1	63.0	106.8	214.2	56.1	96.1	23.9	5.3950339	Violation caused by suspension	
2017SH	[REDACTED CONTINGENCY]	340618 5LIVING	161 360026 5BARKLEY HP 161 1	LN	223	281.2	92.6	126.1	250.2	79.5	112.2	31.0	6.9977427	Violation made worse by suspension	
2017SH	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.7	62.7	105.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.7	62.7	105.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.7	62.7	105.6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	325077 5COLEMAN TAP 161	325078 5PADUCAH PR3 161 1	LN	245	248.9	181.2	101.8	233.5	172.3	95.3	15.4	3.476298	Violation caused by suspension	
2017SH	[REDACTED CONTINGENCY]	340618 5LIVING	161 360016 5MARSHALL KY 161 1	LN	223	232.5	63.0	104.3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340618 5LIVING	161 360026 5BARKLEY HP 161 1	LN	223	274.7	92.5	123.2	243.6	79.5	109.2	31.1	7.020316	Violation made worse by suspension	
2017SH	[REDACTED CONTINGENCY]	362186 2WATAUGA HP	69.0 362167 2ELIZABETHTN69.0 1	LN	58.4	60.6	61.6	103.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SHContoff	[REDACTED CONTINGENCY]	348774 7BALDWIN	345 348776 7TURKEY HILL 345 1	LN	956	1177.0	693.4	123.1	1161.5	692.2	121.5	15.5	3.4988713	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	348728 4W MT VERN N	138 348827 7W MT VERNON 345 1	TR	448	465.3	250.7	103.9	451.7	249.1	100.8	13.6	3.0699774	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	347016 4EFFGHMNV	138 347024 4EFFINGHM 138 1	LN	263	293.2	60.8	111.5	279.5	60.2	106.3	13.7	3.0925508	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	347016 4EFFGHMNV	138 347024 4EFFINGHM 138 1	LN	263	293.5	60.8	111.6	279.7	60.2	106.4	13.8	3.1151242	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	347946 4PANA	138 348786 4SCHRAMCY TP 138 1	LN	202	236.0	39.5	116.9	220.2	35.8	109.0	15.8	3.5665914	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	348730 4MIDWAY E	138 348788 4SCHRAMCY TP 138 1	LN	202	266.3	73.5	131.8	251.0	70.2	124.2	15.3	3.4537246	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	347946 4PANA	138 348068 4RAMSEY CIPS 138 1	LN	264	266.4	44.5	100.9	251.3	44.8	95.2	15.1	3.4085779	Violation caused by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	348067 7RAMSEY	345 348068 4RAMSEY CIPS 138 1	TR	382	390.9	95.5	102.3	370.2	96.0	96.9	20.7	4.6726862	Violation caused by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	347946 4PANA	138 348068 4RAMSEY CIPS 138 1	LN	264	266.3	44.5	100.9	251.2	44.8	95.1	15.1	3.4085779	Violation caused by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	348067 7RAMSEY	345 348068 4RAMSEY CIPS 138 1	TR	382	390.4	95.5	102.2	369.6	96.0	96.8	20.8	4.6952596	Violation caused by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	348774 7BALDWIN	345 348776 7TURKEY HILL 345 1	LN	956	1054.9	693.4	110.3	1030.9	692.2	108.8	15.0	3.3960045	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	348774 7BALDWIN	345 348776 4BALDWIN 138 1	TR	448	470.3	293.8	105.0	456.3	287.1	101.8	14.0	3.1602709	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	350204 4CAMPBELLHL	138 350205 5CAMPBELLHL 161 1	TR	224	323.8	25.8	144.5	295.9	22.6	132.1	27.9	6.2979684	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	300061 5BOONE	161 300483 2BOONE 69.0 1	TR	112	126.0	92.7	112.5	111.6	92.8	99.7	14.4	3.2505643	Violation caused by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	324512 2EDDY P	69.0 324693 2PRINCE 69.0 1	LN	64	67.8	32.1	106.0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SHContoff	[REDACTED CONTINGENCY]	324512 2EDDY P	69.0 362916 2KY DAM 69.0 1	LN	70	71.5	35.6	102.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SHContoff	[REDACTED CONTINGENCY]	360103 5PHIPPS B NP	161 360705 5JSEV C34 TP 161 3	LN	472.1	492.1	319.4	104.2	478.7	314.4	101.4	13.4	3.0248307	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.6	62.7	105.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SHContoff	[REDACTED CONTINGENCY]	340618 5LIVING	161 360016 5MARSHALL KY 161 1	LN	223	224.2	59.3	100.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SHContoff	[REDACTED CONTINGENCY]	340618 5LIVING	161 360026 5BARKLEY HP 161 1	LN	223	261.8	83.9	117.4	230.1	70.6	103.2	31.7	7.1557562	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	63.9	62.7	109.5	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SHContoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.7	62.7	105.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SHContoff	[REDACTED CONTINGENCY]	340618 5LIVING	161 360026 5BARKLEY HP 161 1	LN	223	253.3	83.9	114.5	223.6	70.5	100.3	31.7	7.1557562	Violation made worse by suspension	
2017SHContoff	[REDACTED CONTINGENCY]	362124 2LOVELLTN	69.0 362496 2WATTROAD TN69.0 1	LN	58.4	61.7	62.7	105.7	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension

## Big Rivers Electric Corporation - Case No. 2013-00199 Attachment for Response to KIUC 1-46(e) - Appendix A

MISO Coleman Units 1, 2, & 3 Attachment Y-2 Study - Compare Voltage Results  
CONFIDENTIAL / CEII - DO NOT RELEASE

Model	Contingency Description	Limiting Element							Coleman 1, 2, & 3 OFF			Coleman 1, 2, & 3 ON			Unit Impact	MISO Comments
		Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Volt-Volt (>0.01)	
2014SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.91	1.1	0.8516	0.9693	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.91	1.1	0.873	0.9793	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8125	0.9607	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8214	0.9669	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8487	0.9798	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9081	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340564	5NATAL	161	314	1314	0.92	1.05	0.8235	0.97	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8958	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.8171	0.9676	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.91	1.1	0.8516	0.9693	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.91	1.1	0.873	0.9793	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8125	0.9607	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8214	0.9669	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8487	0.9798	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9081	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.8171	0.9928	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340564	5NATAL	161	314	1314	0.92	1.05	0.8235	0.97	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8958	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.8171	0.9676	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.91	1.1	0.8516	0.9693	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.91	1.1	0.873	0.9793	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8125	0.9607	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8214	0.9669	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8487	0.9798	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9081	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.8171	0.9928	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340564	5NATAL	161	314	1314	0.92	1.05	0.8235	0.97	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8958	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.8171	0.9676	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9029	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8905	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9028	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8905	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9028	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8905	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9028	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8905	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248431	07BRISTW	161	207	1207	0.91	1.1	0.846	1.0033	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.91	1.1	0.7325	0.9693	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248885	07TRY161	161	207	1207	0.91	1.1	0.7926	0.9907	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.91	1.1	0.7605	0.9793	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.6378	0.9607	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.91	1.1	0.8516	0.9693	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.91	1.1	0.873	0.9793	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8125	0.9607	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8214	0.9669	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8487	0.9798	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension

Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-46(e) - Appendix A

MISO Coleman Units 1, 2, & 3 Attachment Y-2 Study - Compare Voltage Results  
CONFIDENTIAL / CEII - DO NOT RELEASE

Model	Contingency Description	Limiting Element							Coleman 1, 2, & 3 OFF			Coleman 1, 2, & 3 ON			Unit	MISO Comments
		Bus #	Bus Name	KV	Area	Zone	Low Limit	Up Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Volt-Von (>0.81)	
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.8081	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340564	5NATAL	161	314	1314	0.92	1.05	0.8236	0.971	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8959	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.8172	0.9676	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340568	5MEADE	161	314	1314	0.92	1.05	0.8775	0.9851	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340616	5N.HARD	161	314	1314	0.92	1.05	0.8616	0.9957	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340566	5MEADE	161	314	1314	0.92	1.05	0.8775	0.9851	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340616	5N.HARD	161	314	1314	0.92	1.05	0.8616	0.9957	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9031	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8907	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.9	1.1	0.8516	0.9693	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.9	1.1	0.873	0.9793	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8125	0.9607	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8214	0.9669	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8487	0.9796	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9081	0.9855	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.8171	0.9928	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340564	5NATAL	161	314	1314	0.92	1.05	0.8235	0.971	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8958	0.9743	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.8171	0.9676	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	324139	5DORCHST	161	363	379	0.9	1.1	0.8832	1.0034	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	324149	5MBODEN	161	363	379	0.9	1.1	0.8724	1.0025	L	1.1048	1.003	H	-0.232	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	324157	5POCK N	161	363	379	0.9	1.1	0.8677	1.0048	L	1.111	1.0053	H	-0.243	Violation caused by suspension
2014SP	[REDACTED CONTINGENCY]	324158	5POCKET	161	363	379	0.9	1.1	0.8677	1.0047	L	1.111	1.0052	H	-0.243	Violation caused by suspension
2014SP	Centrif	324310	4SPENC	138	363	380	0.9	1.1	0.8823	0.9699	L	0.8718	0.9699	L	0.011	Pre-existing
2017SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.9	1.1	0.8482	0.9696	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.9	1.1	0.8697	0.979	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8085	0.9602	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8173	0.9662	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8454	0.9791	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9049	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340564	5NATAL	161	314	1314	0.92	1.05	0.8197	0.9694	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8928	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.8132	0.967	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.9	1.1	0.8482	0.9696	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.9	1.1	0.8697	0.979	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8085	0.9602	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8173	0.9662	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8454	0.9791	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9049	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.8132	0.9921	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340564	5NATAL	161	314	1314	0.92	1.05	0.8197	0.9694	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8928	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340621	5COLEEHV	161	314	1314	0.92	1.05	0.8132	0.967	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.9	1.1	0.8482	0.9696	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	253581	10NTVL13	138	210	1210	0.95	1.05	0.9354	0.9903	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8085	0.9602	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8173	0.9662	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340558	5SKILMAN	161	314	1314	0.92	1.05	0.8454	0.9791	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension

## Big Rivers Electric Corporation - Case No. 2013-00199 Attachment for Response to KIUC 1-46(e) - Appendix A

MISO Coleman Units 1, 2, & 3 Attachment Y-2 Study - Compare Voltage Results  
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Model	Contingency Description	Limiting Element							Coleman 1, 2, & 3 OFF			Coleman 1,2, & 3 ON			Unit Impact (>0.01)	MISO Comments
		Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol		
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.9049	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.8132	0.9921	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340564	SNATAL	161	314	1314	0.92	1.05	0.8197	0.9694	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	SNEWMAN	161	314	1314	0.92	1.05	0.8928	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340621	SCOLEEHV	161	314	1314	0.92	1.05	0.8132	0.967	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.8924	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	SNEWMAN	161	314	1314	0.92	1.05	0.88	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.8923	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	SNEWMAN	161	314	1314	0.92	1.05	0.88	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	253580	10NTVL16	161	210	1210	0.95	1.05	0.9349	0.9697	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.8923	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	SNEWMAN	161	314	1314	0.92	1.05	0.88	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.8923	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	SNEWMAN	161	314	1314	0.92	1.05	0.88	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.8923	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248431	07BRISTW	161	207	1207	0.9	1.1	0.8436	1.0012	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435	07NNTVL1	161	207	1207	0.9	1.1	0.7285	0.9696	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248865	07TRY161	161	207	1207	0.9	1.1	0.7892	0.9896	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248887	07NNTNVL	161	207	1207	0.9	1.1	0.7568	0.979	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340552	SCOLEMAN	161	314	1314	0.92	1.05	0.6327	0.9602	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435	07NNTVL1	161	207	1207	0.9	1.1	0.8482	0.9696	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248887	07NNTNVL	161	207	1207	0.9	1.1	0.8697	0.979	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340552	SCOLEMAN	161	314	1314	0.92	1.05	0.8085	0.9602	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340557	SHANCO	161	314	1314	0.92	1.05	0.8174	0.9682	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340558	SSKILMAN	161	314	1314	0.92	1.05	0.8455	0.9791	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.9049	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340564	SNATAL	161	314	1314	0.92	1.05	0.8198	0.9694	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	SNEWMAN	161	314	1314	0.92	1.05	0.8928	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340621	SCOLEEHV	161	314	1314	0.92	1.05	0.8132	0.967	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340566	SMEADE	161	314	1314	0.92	1.05	0.8653	0.9846	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340616	SNHARD	161	314	1314	0.92	1.05	0.8484	0.9956	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	253580	10NTVL16	161	210	1210	0.95	1.05	0.9367	0.9697	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	253580	10NTVL16	161	210	1210	0.95	1.05	0.9367	0.9697	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340566	SMEADE	161	314	1314	0.92	1.05	0.8654	0.9846	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340616	SNHARD	161	314	1314	0.92	1.05	0.8484	0.9956	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.8952	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	SNEWMAN	161	314	1314	0.92	1.05	0.8828	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248435	07NNTVL1	161	207	1207	0.9	1.1	0.8482	0.9696	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	248887	07NNTNVL	161	207	1207	0.9	1.1	0.8697	0.979	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340552	SCOLEMAN	161	314	1314	0.92	1.05	0.8085	0.9602	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340557	SHANCO	161	314	1314	0.92	1.05	0.8173	0.9662	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340558	SSKILMAN	161	314	1314	0.92	1.05	0.8454	0.9791	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340559	SDAVIS	161	314	1314	0.92	1.05	0.9049	0.984	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.8132	0.9921	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340564	SNATAL	161	314	1314	0.92	1.05	0.8197	0.9694	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340565	SNEWMAN	161	314	1314	0.92	1.05	0.8928	0.973	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	340621	SCOLEEHV	161	314	1314	0.92	1.05	0.8132	0.967	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SP	[REDACTED CONTINGENCY]	360430	SHARRIMAN TN	161	347	1368	0.9	1.1	0.7649	1.0426	L	0.7822	1.0427	L	-0.017	Pre-existing



## Big Rivers Electric Corporation - Case No. 2013-00199 Attachment for Response to KIUC 1-46(e) - Appendix A

MISO Coleman Units 1, 2, & 3 Attachment Y-2 Study - Compare Voltage Results  
CONFIDENTIAL / CEII - DO NOT RELEASE

Model	Contingency Description	Limiting Element						Coleman 1, 2, & 3 OFF			Coleman 1, 2, & 3 ON			Unit Impact		
		Bus #	Bus Name	KV	Area	Zone	Low Limit	Upp Limit	Cont Volt	Base Volt	Viol	Cont Volt	Base Volt	Viol	Volt-Von (>0.81)	MISO Comments
2017SP	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.7641	1.0477	L	0.7815	1.0477	L	-0.017	Pre-existing
2017SP	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.7638	1.0474	L	0.7812	1.0474	L	-0.017	Pre-existing
2017SP	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.6886	1.0426	L	0.7309	1.0427	L	-0.042	Pre-existing
2017SP	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.6889	1.0477	L	0.7311	1.0477	L	-0.042	Pre-existing
2017SP	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.6885	1.0474	L	0.7307	1.0474	L	-0.042	Pre-existing
2017SP	[REDACTED CONTINGENCY]	361383	5W OAK RIDGT	161	347	1368	0.9	1.1	0.689	1.0479	L	0.7312	1.0479	L	-0.042	Pre-existing
2017SP	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.6979	1.0426	L	0.7309	1.0427	L	-0.033	Pre-existing
2017SP	[REDACTED CONTINGENCY]	360692	5ROANE B#2	161	347	1368	0.9	1.1	0.6981	1.0479	L	0.7312	1.0479	L	-0.033	Pre-existing
2017SP	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.6981	1.0477	L	0.7311	1.0477	L	-0.033	Pre-existing
2017SP	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.6976	1.0474	L	0.7307	1.0474	L	-0.033	Pre-existing
2017SP	[REDACTED CONTINGENCY]	361383	5W OAK RIDGT	161	347	1368	0.9	1.1	0.6981	1.0479	L	0.7312	1.0479	L	-0.033	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.7306	1.0426	L	0.6782	1.0426	L	0.053	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.731	1.0477	L	0.6784	1.0477	L	0.053	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.7306	1.0474	L	0.6779	1.0474	L	0.053	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361383	5W OAK RIDGT	161	347	1368	0.9	1.1	0.731	1.0479	L	0.6784	1.0479	L	0.053	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.7556	1.0426	L	0.7821	1.0426	L	-0.027	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.7548	1.0477	L	0.7814	1.0477	L	-0.027	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.7544	1.0474	L	0.781	1.0474	L	-0.027	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.7306	1.0426	L	0.6782	1.0426	L	0.053	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.731	1.0477	L	0.6784	1.0477	L	0.053	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.7306	1.0474	L	0.6779	1.0474	L	0.053	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361383	5W OAK RIDGT	161	347	1368	0.9	1.1	0.731	1.0479	L	0.6784	1.0479	L	0.053	Pre-existing
2017SPCentoff	[REDACTED CONTINGENCY]	361364	5WEAVER GA	161	347	1367	0.9	1.1	0.5784	1.0104	L	0.5537	1.0104	L	0.025	Pre-existing
2017SH	[REDACTED CONTINGENCY]	340566	5MEADE	161	314	1314	0.92	1.05	0.9011	0.9887	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340616	5N HARD	161	314	1314	0.92	1.05	0.8899	0.998	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	248435	07NWTVL1	161	207	1207	0.9	1.1	0.8436	0.9768	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	248865	07TRY161	161	207	1207	0.9	1.1	0.8832	0.9802	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	248887	07NWTNVL	161	207	1207	0.9	1.1	0.8622	0.9831	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340552	5COLEMAN	161	314	1314	0.92	1.05	0.8062	0.9699	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340557	5HANCO	161	314	1314	0.92	1.05	0.8108	0.9696	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340558	5SKLMAN	161	314	1314	0.92	1.05	0.8386	0.9824	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340559	5DAVIS	161	314	1314	0.92	1.05	0.9048	0.9902	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340563	7COLEMAN	345	314	1314	0.92	1.05	0.8062	0.9931	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340564	5NATAL	161	314	1314	0.92	1.05	0.8128	0.9724	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	340565	5NEWMAN	161	314	1314	0.92	1.05	0.8933	0.9798	L	#N/A	#N/A	#N/A	#N/A	Violation caused by suspension
2017SH	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.757	1.0422	L	0.7804	1.0424	L	-0.023	Pre-existing
2017SH	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.7562	1.0473	L	0.7797	1.0474	L	-0.024	Pre-existing
2017SH	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.7558	1.047	L	0.7793	1.0472	L	-0.024	Pre-existing
2017SH	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.757	1.0422	L	0.7803	1.0424	L	-0.023	Pre-existing
2017SH	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.7562	1.0473	L	0.7796	1.0474	L	-0.023	Pre-existing
2017SH	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.7558	1.047	L	0.7793	1.0472	L	-0.024	Pre-existing
2017SHCentoff	[REDACTED CONTINGENCY]	324310	4SPENC	138	363	380	0.9	1.1	0.8782	0.9682	L	0.8646	0.9682	L	0.014	Pre-existing
2017SHCentoff	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.757	1.0422	L	0.7803	1.0423	L	-0.023	Pre-existing
2017SHCentoff	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.7562	1.0473	L	0.7796	1.0474	L	-0.023	Pre-existing
2017SHCentoff	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.7558	1.047	L	0.7793	1.0471	L	-0.024	Pre-existing
2017SHCentoff	[REDACTED CONTINGENCY]	360033	8UNION MS	500	347	1356	0.9	1.1	0.8606	1.0475	L	0.8793	1.0476	L	-0.019	Pre-existing
2017SHCentoff	[REDACTED CONTINGENCY]	360430	5HARRIMAN TN	161	347	1368	0.9	1.1	0.757	1.0422	L	0.7803	1.0423	L	-0.023	Pre-existing
2017SHCentoff	[REDACTED CONTINGENCY]	361099	5BLAIR RD TP	161	347	1368	0.9	1.1	0.7562	1.0473	L	0.7796	1.0474	L	-0.023	Pre-existing
2017SHCentoff	[REDACTED CONTINGENCY]	361146	5BLAIR RD TN	161	347	1368	0.9	1.1	0.7558	1.047	L	0.7793	1.0471	L	-0.024	Pre-existing

**BIG RIVERS ELECTRIC CORPORATION**  
**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION**  
**FOR A GENERAL ADJUSTMENT IN RATES**  
**CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s**  
**Initial Request for Information**  
**dated August 19, 2013**

**September 3, 2013**

1 **Item 47)** *Please provide, electronically, the long-term annual production costs based*  
2 *on a case that permanently retires the Coleman and Wilson units and assumes that Big*  
3 *Rivers does not supply the Alcan and Century loads for the length of the study. This study*  
4 *should be based on most current assumptions the Company is relying on for its planning*  
5 *purposes. The assumptions include, but are not limited to, environmental upgrade*  
6 *requirements, natural gas price forecasts, coal price forecasts, market capacity and energy*  
7 *price forecasts, and CO2 assumptions that were used in the study along with the*  
8 *assumptions, workpapers, and electronic spreadsheets with all formulas intact that were*  
9 *used to developed these assumptions.*

10

11 **Response)** Big Rivers has not performed such a study. Please see Big Rivers' response  
12 to KIUC 1-51.

13

14 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 48)** *Please provide, electronically, the long-term annual production costs based*  
2 *on a case that temporarily idles the Coleman and Wilson units for the period of time that*  
3 *the Company is currently planning for, and then brings them back when the Company*  
4 *believes that will occur. This study should assume that Big Rivers does not supply the*  
5 *Alcan and Century loads for the length of the study. This study should be based on most*  
6 *current assumptions the Company is relying on for its planning purposes. The*  
7 *assumptions include, but are not limited to, environmental upgrade requirements, natural*  
8 *gas price forecasts, coal price forecasts, market capacity and energy price forecasts, and*  
9 *CO2 assumptions that were used in the study along with the assumptions, workpapers, and*  
10 *electronic spreadsheets with all formulas intact that were used to develop these*  
11 *assumptions.*

12  
13 **Response)** Please refer to Big Rivers' response to PSC 2-14. In that response, Big Rivers  
14 has provided the current long-term forecast for the years 2013-2027. This forecast assumes  
15 that Big Rivers does not supply the smelters with power and that the Coleman and Wilson  
16 plants are idled for a period of time and then restarted. This forecast also assumes that the  
17 Wilson plant restarts in 2018 and the Coleman plant restarts in 2019. This forecast also  
18 assumes that replacement load begins in 2016 and grows until 2021 in the following

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1 increments: 100 MW in 2016, 100 MW in 2017, 100 MW in 2018, 100 MW in 2019, 200  
2 MW in 2020, and 200 MW in 2021 for a total load recovery of 800 MW. This forecast  
3 utilizes pricing from ACES for off-system pricing. The production cost model utilized for  
4 this forecast is attached to Big Rivers' response to PSC 2-14. This forecast complies with the  
5 Mercury and Air Toxics Standards (MATS). No assumptions were made with respect to  
6 future environmental regulations that have not even been formulated and may not apply. Big  
7 Rivers is preparing to run a sensitivity which includes a fuel switch from coal to natural gas  
8 at Green Station. Capacity pricing was not included in this forecast, but was modeled as a  
9 separate sensitivity and attached to Big Rivers' response to PSC 2-14.

10

11 **Witness)** Robert W. Berry

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1 **Item 49)**      *On page 12, Mr. Berry mentions that Big Rivers generating units achieve a*  
2 *90% dispatch rate in the MISO market.*

3            *a.      Please explain what a 90% dispatch rate is, and provide the analysis*  
4 *electronically with all formula intact that led to that calculation.*

5            *b.      Provide historical capacity factor, generation, and capacity values for each*  
6 *Big Rivers' unit for the past 10 years.*

7

8 **Response)**

9            a.      MISO economically dispatches the generating units within the MISO  
10 footprint. The dispatch rate is measured by dividing the actual generation by  
11 the available generation. Please see the attachment to this response for the  
12 calculations.

13            b.      Please see the attachment to this response for the historical values. The  
14 exhibit does not include Big Rivers' peaking units Reid Unit 1 (Steam) and  
15 Reid Unit 2 (CT).

16

17 **Witness)**      Robert W. Berry

**Big Rivers Electric Corporation  
Case No. 2013-00199**

**Attachment for Response to KIUC 1-49(a)  
Dispatch Calculations**

Unit	2013 YTD thru July Generation			2012 Generation			2011 Generation		
	Actual	Available	% Dispatch	Actual	Available	% Dispatch	Actual	Available	% Dispatch
Coleman1	565,001	624,424	90.5%	961,791	1,157,327	83.1%	1,097,319	1,186,210	92.5%
Coleman 2	612,861	712,257	86.0%	1,046,232	1,241,088	84.3%	1,082,823	1,192,757	90.8%
Coleman 3	655,792	739,158	88.7%	1,109,183	1,285,632	86.3%	1,128,218	1,216,858	92.7%
HMP'L 1	650,811	716,347	90.9%	990,159	1,106,612	89.5%	1,108,696	1,212,170	91.5%
HMP'L 2	468,413	562,285	83.3%	1,015,444	1,230,633	82.5%	1,051,742	1,225,292	85.8%
Green 1	1,001,185	1,125,004	89.0%	1,600,571	1,986,333	80.6%	1,708,535	1,848,392	92.4%
Green 2	990,999	1,105,234	89.7%	1,316,014	1,816,491	72.4%	1,761,631	1,904,324	92.5%
Wilson	1,901,383	1,991,788	95.5%	3,093,436	3,350,276	92.3%	3,403,807	3,463,718	98.3%
<b>System</b>	<b>6,846,444</b>	<b>7,576,498</b>	<b>90.4%</b>	<b>11,132,830</b>	<b>13,174,392</b>	<b>84.5%</b>	<b>12,342,770</b>	<b>13,249,721</b>	<b>93.2%</b>

**Case No. 2013-00199**

**Attachment for Response to KIUC 1-49(a)**

**Witness: Robert W. Berry**

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**Attachment for Response to KIUC 1-49(b)  
Historical Plant Performance 2003 - 2012**

Unit	Year	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
Coleman 1	Net Generation, MWH	990,131	1,125,022	995,977	925,616	791,658	1,043,409	1,006,662	906,323	945,215	976,312
	Net Capacity Factor, %	75.1%	85.6%	75.8%	70.4%	60.1%	79.4%	76.6%	69.0%	71.7%	74.3%
	Gross Capacity, MW	160	160	160	160	160	160	160	160	160	160
	Net Capacity, MW	150	150	150	150	150	150	150	150	150	150
Coleman 2	Net Generation, MWH	989,552	1,027,417	774,373	831,323	1,008,388	854,406	933,488	920,079	980,715	971,419
	Net Capacity Factor, %	81.6%	85.0%	64.1%	68.8%	82.0%	69.7%	76.1%	70.0%	74.4%	73.9%
	Gross Capacity, MW	160	160	160	160	160	160	160	160	160	160
	Net Capacity, MW	138	138	138	138	140	140	140	150	150	150
Coleman 3	Net Generation, MWH	1,137,523	1,155,921	1,091,556	902,655	1,108,590	1,064,671	761,801	969,618	965,976	803,825
	Net Capacity Factor, %	83.5%	85.1%	80.4%	66.5%	81.4%	78.4%	56.1%	71.4%	70.9%	59.2%
	Gross Capacity, MW	165	165	165	165	165	165	165	165	165	165
	Net Capacity, MW	155	155	155	155	155	155	155	155	155	155
HMP'L 1	Net Generation, MWH	990,159	1,108,696	1,146,424	959,730	1,043,200	1,103,823	1,226,454	965,804	1,066,153	853,954
	Net Capacity Factor, %	73.7%	82.7%	85.5%	71.6%	77.6%	82.4%	91.5%	72.1%	79.3%	63.7%
	Gross Capacity, MW	165	165	165	165	165	165	165	165	165	165
	Net Capacity, MW	153	153	153	153	153	153	153	153	153	153
HMP'L 2	Net Generation, MWH	1,015,444	1,051,742	1,078,948	1,182,523	1,093,226	1,042,430	1,112,078	1,137,431	955,169	975,979
	Net Capacity Factor, %	72.7%	75.5%	77.5%	84.9%	78.3%	74.8%	79.8%	81.7%	68.4%	70.1%
	Gross Capacity, MW	172	172	172	172	172	172	172	172	172	172
	Net Capacity, MW	159	159	159	159	159	159	159	159	159	159
Green 1	Net Generation, MWH	1,600,571	1,708,535	1,754,072	1,744,526	1,875,290	1,649,479	1,876,343	1,904,987	1,757,583	1,684,965
	Net Capacity Factor, %	78.9%	84.4%	86.7%	86.2%	92.4%	81.5%	92.7%	94.1%	86.6%	83.3%
	Gross Capacity, MW	250	250	250	250	250	250	250	250	250	250
	Net Capacity, MW	231	231	231	231	231	231	231	231	231	231
Green 2	Net Generation, MWH	1,316,014	1,761,631	1,787,121	1,438,554	1,758,645	1,781,751	1,826,151	1,656,052	1,741,977	1,642,179
	Net Capacity Factor, %	67.2%	90.2%	91.5%	73.6%	89.8%	91.2%	93.5%	84.8%	88.9%	84.1%
	Gross Capacity, MW	242	242	242	242	242	242	242	242	242	242
	Net Capacity, MW	223	223	223	223	223	223	223	223	223	223
Wilson	Net Generation, MWH	3,093,436	3,403,807	3,338,582	2,707,367	2,995,194	3,210,322	3,203,632	3,404,322	3,172,128	2,910,791
	Net Capacity Factor, %	84.5%	93.2%	91.4%	74.1%	81.2%	87.3%	87.1%	92.5%	86.0%	79.1%
	Gross Capacity, MW	448	448	448	448	448	448	448	448	448	448
	Net Capacity, MW	417	417	417	417	420	420	420	420	420	420

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1    **Item 50)     *On page 14, Mr. Berry mentions that the Load Concentration and***  
2    ***Mitigation Plan calls for eliminating the variable cost of production and to reduce the***  
3    ***FDE, labor and labor overhead costs to Big River's members. Please provide the following***  
4    ***information, going out to 2027, or as far out as the data is available:***

5           ***a.     Annual variable cost of production, FDE, labor and labor overhead costs***  
6           ***for each generating unit (each expense component identified separately)***  
7           ***assuming the Wilson and Coleman units are idled for that entire period. If***  
8           ***the data cannot be provided as requested, please provide a detailed***  
9           ***explanation of why not. Please explain how overtime has been accounted***  
10          ***for in these estimates.***

11          ***b.     Annual variable cost of production, FDE, labor and labor overhead costs***  
12          ***for each generating unit (each expense component identified separately)***  
13          ***assuming the Wilson and Coleman units are not idled for that entire period.***  
14          ***If the data cannot be provided as requested, please provide a detailed***  
15          ***explanation of why not. Please explain how overtime has been accounted***  
16          ***for in these estimates.***

17



**BIG RIVERS ELECTRIC CORPORATION**

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1 **Response)**

2 a. Please see Big Rivers' response to PSC 2-14, specifically the 15-year  
3 production cost model and the long-term financial model. In the financial  
4 model, the Wilson and Coleman plants are idled until May 2018 and July  
5 2019, respectively. FDE and Labor costs are found on the 'O&M' worksheet.  
6 After the work is complete to layup the Wilson and Coleman plants, there is  
7 no overtime budgeted while in an idled status. Variable costs are found in the  
8 15-year production cost model in the 'monthly resource' and 'annual  
9 resource' worksheets.

10 b. Big Rivers does not have a financial forecast model with both Wilson and  
11 Coleman running. However, please refer to Big Rivers' response to AG 1-98  
12 and the CONFIDENTIAL electronic files attached to that response, which  
13 includes a production cost model 'all-running' scenario. Please refer to the  
14 'monthly resource' and 'annual resource' worksheets for variable costs.

15

16 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 51)** *On page 14, Mr. Berry mentions that Big Rivers continues to evaluate a*  
2 *range of options to arrive at the most cost-effective alternative possible for Big River's*  
3 *members. Please provide a summary of all analyses of alternatives that were conducted*  
4 *over the past year, including results. Also, provide a list and description of all studies that*  
5 *are currently underway, and another list and description of each study of additional*  
6 *options or variations that Big Rivers intends to perform within the next 12 months, and*  
7 *state when Big Rivers intends to complete and/or perform those studies. If a retirement*  
8 *analysis has not been performed yet, please explain if and when Big Rivers intends to*  
9 *perform such a study, and if it does not intend to do so, then provide all reasons why it*  
10 *does not intend to do so.*

11

12 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
13 unduly burdensome. Big Rivers also objects to this request on the grounds that Big Rivers  
14 has previously provided all information and documents necessary for the intervenor to  
15 determine the response without further input. Notwithstanding these objections, but without  
16 waiving them, the range of options that Big Rivers continues to evaluate was explained in  
17 Big Rivers' Load Concentration Analysis and Mitigation Plan and includes:

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- 1       • Petition the Commission for a rate increase to help address the forecasted revenue  
2       shortfall;
- 3       • Market all excess power when the market price is greater than marginal generation  
4       cost;
- 5       • Idle or reduce generation when the market price does not support the cost of  
6       generating;
- 7       • Evaluate options to execute forward bilateral sales agreements with counterparties ;  
8       • Enter into wholesale power contracts;
- 9       • Participate in capacity markets; and
- 10      • Big Rivers has offered to multiple parties the option to purchase or lease the Coleman  
11      and/or Wilson stations
- 12      Big Rivers is actively exploring these alternatives; however, when evaluating different  
13      options it quickly becomes obvious that some of the choices are so extreme that they do not  
14      require a detailed analysis. Because of the significant unamortized plant balance of the  
15      Coleman and Wilson generating units, retirement would result in the need for Big Rivers to  
16      recover the unamortized plant balances of those units to the detriment of its Members rates.  
17      If Big Rivers were to retire the Coleman and Wilson plants it would be throwing away  
18      valuable assets that are part of Big Rivers' long-term mitigation plan.

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1 Coleman and Wilson both have many years left on their useful life. It just does not  
2 make sense for Big Rivers to retire these plants and deprive the Members of the future  
3 benefits these plants will provide. Lastly, MISO has confirmed Coleman as an SSR unit until  
4 Century installs capacitors and a special protective system (relays), and agrees to curtail load  
5 when a transmission constraint occurs. The preliminary results of the Wilson Attachment Y-  
6 2 indicate that Wilson could be designated an SSR unit if Coleman is idled and Century  
7 Hawesville and Century Sebree continue to operate at their existing loads.

8

9 **Witness)** Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 52)** *At page 15, Mr. Berry states that the Coleman Plant has the least amount of*  
2 *pollution control installed. Please provide for the Coleman units and Wilson:*

3 *a. A summary of the pollution control equipment presently installed and*  
4 *operating and the specific regulations that are met with the equipment.*

5 *b. A list of pollution control equipment that is in the process of being installed*  
6 *or that will be installed in the future, and the specific regulations that will*  
7 *be met with the equipment. Indicate when the equipment will have to be*  
8 *installed, the installation capital costs, and any on-going capital, fixed and*  
9 *variable O&M costs resulting from the environmental upgrades that will be*  
10 *incurred.*

11

12 **Response)**

13 *a. Please see the Sargent and Lundy study referenced in Big Rivers' response to*  
14 *SC 1-33.*

15 *b. Big Rivers will install MATS equipment as approved by Commission Order*  
16 *in Case No. 2012-00063 on both the Coleman and Wilson units prior to*  
17 *restarting the units. Big Rivers has no other current plans for installation of*  
18 *pollution control equipment at this time.*

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1

2 **Witness)**     Robert W Berry

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1 **Item 53)** *At page 15, Mr. Berry states that the Coleman Plant has historically cost*  
2 *approximately \$2 - \$5/MWH more than Green or Wilson. Please provide all support for*  
3 *this calculation.*

4

5 **Response)** Please see the attachment to this response showing the three (3) year average  
6 production cost summary from the production cost model for years 2010-2012 for Coleman  
7 is \$33.52/MWh while Green is \$31.31/MWh and Wilson is \$27.68/MWh. Summary support  
8 worksheets are included.

9

10 **Witness)** Robert W. Berry

**Big Rivers Electric Corporation**  
**Case No. 2013-00199**

**Attachment to Response for KIUC 1-53**  
**Station Production Cost Comparison 2010 - 2012**

<b>Station Production Cost</b>												
<b>Year</b>	<b>Wilson</b>				<b>Coleman</b>				<b>Green</b>			
	<b>Fixed</b>	<b>Fuel</b>	<b>VOM</b>	<b>Total</b>	<b>Fixed</b>	<b>Fuel</b>	<b>VOM</b>	<b>Total</b>	<b>Fixed</b>	<b>Fuel</b>	<b>VOM</b>	<b>Total</b>
	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>	<b>\$/MWH</b>
2012	\$ 7.73	\$ 21.82	\$ 2.45	\$ 32.01	\$ 6.72	\$ 25.39	\$ 1.08	\$ 33.19	\$ 7.79	\$ 23.63	\$ 3.38	\$ 34.79
2011	\$ 6.56	\$ 17.29	\$ 2.81	\$ 26.66	\$ 6.79	\$ 24.35	\$ 0.96	\$ 32.10	\$ 7.45	\$ 20.68	\$ 3.08	\$ 31.21
2010	\$ 6.07	\$ 15.93	\$ 2.70	\$ 24.70	\$ 8.34	\$ 26.13	\$ 1.06	\$ 35.53	\$ 6.56	\$ 19.15	\$ 2.84	\$ 28.55
<b>3-Yr Avg</b>	<b>\$ 6.76</b>	<b>\$ 18.25</b>	<b>\$ 2.66</b>	<b>\$ 27.68</b>	<b>\$ 7.24</b>	<b>\$ 25.25</b>	<b>\$ 1.03</b>	<b>\$ 33.52</b>	<b>\$ 7.23</b>	<b>\$ 21.00</b>	<b>\$ 3.08</b>	<b>\$ 31.31</b>



Attachment for Response to KIUC 1-53  
Station Production Cost Comparison 2010 - 2012

2012 Fixed O&M Costs							
Station	Generation			Fixed O&M			
	Gross	Net	Net Cap.	Non-Labor	Labor	Total	\$/MWH
Wilson		3,093,436	417	\$ 12,218,758	\$ 11,698,511	\$ 23,917,269	\$ 7.73
Coleman		3,117,206	443	\$ 9,193,147	\$ 11,751,641	\$ 20,944,788	\$ 6.72
Green		2,916,586	454	\$ 9,184,130	\$ 13,525,556	\$ 22,709,687	\$ 7.79

2012 Variable O&M Costs												
Station	Variable O&M								VOM including Fuel		VOM without Fuel	
	Coal	Pet Coke	Allowances	Fuel Oil	Nat. Gas	Propane	Reag./Disp.	Total Fuel	Total	\$/MWh	Total	\$/MWh
Wilson	\$ 53,948,770	\$ 12,133,544	\$ 53,716	\$ 1,428,723	\$ -	\$ -	\$ 7,537,585	\$ 67,511,037	\$ 75,102,338	\$ 24.28	\$ 7,591,301	\$ 2.45
Coleman	\$ 78,905,097	\$ -	\$ 35,889	\$ -	\$ 250,716	\$ -	\$ 3,319,290	\$ 79,155,813	\$ 82,510,992	\$ 26.47	\$ 3,355,179	\$ 1.08
Green			\$ 18,566				\$ 9,825,386	\$ 68,906,082	\$ 78,750,035	\$ 27.00	\$ 9,843,953	\$ 3.38

2012 Production Cost				
Station	FOM	Fuel	VOM, w/o Fuel	Total
	\$/MWH	\$/MWH	\$/MWH	\$/MWH
Wilson	\$ 7.73	\$ 21.82	\$ 2.45	\$ 32.01
Coleman	\$ 6.72	\$ 25.39	\$ 1.08	\$ 33.19
Green	\$ 7.79	\$ 23.63	\$ 3.38	\$ 34.79

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**Attachment for Response to KIUC 1-53**  
**Station Production Cost Comparison 2010 - 2012**

<b>2011 Fixed O&amp;M Costs</b>							
Station	Generation			Fixed O&M			
	Gross	Net	Net Cap.	Non-Labor	Labor	Total	\$/MWH
Wilson		3,403,807	417	\$ 10,995,639	\$ 11,338,771	\$ 22,334,410	\$ 6.56
Coleman		3,308,360	443	\$ 10,606,977	\$ 11,849,348	\$ 22,456,325	\$ 6.79
Green (net)		3,470,165	454	\$ 11,998,978	\$ 13,848,643	\$ 25,847,621	\$ 7.45

<b>2011 Variable O&amp;M Costs</b>												
Station	Variable O&M								VOM including Fuel		VOM without Fuel	
	Coal	Pet Coke	Allowances	Fuel Oil	Nat. Gas	Propane	Reag./Disp.	Total Fuel	Total	\$/MWh	Total	\$/MWh
Wilson	\$ 48,147,181	\$ 8,876,284	\$ 118,418	\$ 1,814,978			\$ 9,455,533	\$ 58,838,443	\$ 68,412,394	\$ 20.10	\$ 9,573,951	\$ 2.81
Coleman	\$ 79,757,926		\$ 58,661		\$ 798,299	\$ 5,723	\$ 3,123,509	\$ 80,561,948	\$ 83,744,118	\$ 25.31	\$ 3,182,170	\$ 0.96
Green (net)	\$ 66,138,306	\$ 3,699,305	\$ 35,021	\$ 1,931,886			\$ 10,661,972	\$ 71,769,497	\$ 82,466,490	\$ 23.76	\$ 10,696,993	\$ 3.08

<b>2011 Production Cost</b>				
Station	FOM	Fuel	VOM, w/o Fuel	Total
	\$/MWH	\$/MWH	\$/MWH	\$/MWH
Wilson	\$ 6.56	\$ 17.29	\$ 2.81	\$ 26.66
Coleman	\$ 6.79	\$ 24.35	\$ 0.96	\$ 32.10
Green	\$ 7.45	\$ 20.68	\$ 3.08	\$ 31.21

Attachment for Response to KIUC 1-53  
Station Production Cost Comparison 2010 - 2012

2010 Fixed O&M Costs							
Station	Generation			Fixed O&M			
	Gross	Net	Net Cap.	Non-Labor	Labor	Total	\$/MWH
Wilson		3,338,582	417	\$ 9,657,756	\$ 10,594,786	\$ 20,252,542	\$ 6.07
Coleman		2,861,906	443	\$ 12,854,881	\$ 11,021,398	\$ 23,876,279	\$ 8.34
Green		3,541,193	454	\$ 10,430,127	\$ 12,815,538	\$ 23,245,665	\$ 6.56

2010 Variable O&M Costs												
Station	Variable O&M							VOM including Fuel		VOM without Fuel		
	Coal	Pet Coke	Allowances	Fuel Oil	Nat. Gas	Propane	Reag./Disp.	Total Fuel	Total	\$/MWh	Total	\$/MWh
Wilson	\$ 40,217,136	\$ 11,503,141	\$ 198,980	\$ 1,474,433			\$ 8,811,897	\$ 53,194,709	\$ 62,205,587	\$ 18.63	\$ 9,010,877	\$ 2.70
Coleman	\$ 74,269,736		\$ 143,282		\$ 502,473		\$ 2,879,153	\$ 74,772,208	\$ 77,794,644	\$ 27.18	\$ 3,022,435	\$ 1.06
Green	\$ 58,906,044	\$ 7,871,867		\$ 1,030,073			\$ 10,050,685	\$ 67,807,984	\$ 77,858,669	\$ 21.99	\$ 10,050,685	\$ 2.84

2010 Production Cost				
Station	FOM	Fuel	VOM, w/o Fuel	Total
	\$/MWH	\$/MWH	\$/MWH	\$/MWH
Wilson	\$ 6.07	\$ 15.93	\$ 2.70	\$ 24.70
Coleman	\$ 8.34	\$ 26.13	\$ 1.06	\$ 35.53
Green	\$ 6.56	\$ 19.15	\$ 2.84	\$ 28.55

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1 **Item 54)** *At page 17, with regard to the Coleman, SSR, transmission revenue matter,*  
2 *please respond to the following:*

3 a. *Please provide the formula for computing transmission revenue that*  
4 *Century Kentucky will pay to Big Rivers during the test year if the*  
5 *Hawesville Smelter operates at 482 mW and assuming that Coleman is*  
6 *idled.*

7 b. *Assume that Big Rivers had to run Coleman at minimum capacity, what is*  
8 *the formula for calculating SSR revenue. Please provide the calculation*  
9 *electronically with all formula attached.*

10 c. *Assume that Big Rivers had to run Coleman at maximum capacity, what is*  
11 *the formula for calculating SSR revenue. Please provide the calculation*  
12 *electronically with all formula attached.*

13

14 **Response)**

15 a. MISO Schedule 9 Network Transmission Calculation

16  $\$15,586.7989 \times 482 = \$7,512,837$

17 b. The SSR budget negotiation with MISO has not yet occurred when the  
18 response to this data request was written. It is Big Rivers' understanding that

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1 Coleman Station will receive the same monthly SSR allocation amount for the  
2 fixed expenses for operating and maintaining Coleman Station regardless of  
3 how the unit is dispatched. There will be no true-up to these fixed monthly  
4 allocation payments to actual spend. When Coleman Station is dispatched,  
5 the actual variable expenses will be paid by MISO. The MISO SSR process is  
6 designed to reimburse the utility for the costs of operating the units; however  
7 it is not intended to allow the utility to make a profit from operating the SSR  
8 units.

9 c. Please see Big Rivers' response to subpart (b) above.

10

11 **Witness)** Robert W. Berry

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1 **Item 55)** *With regard to page 19 of Mr. Berry's testimony, please provide the analyses*  
2 *that led to the projection of all charges and credits associated with participation in the*  
3 *MISO's Real Time, Day Ahead, and FTR markets, including admin fees, energy revenues*  
4 *and charges, transmission revenues and charges, FTR related revenues and charges,*  
5 *capacity costs, and costs which MISO passes on to all market participants based on activity*  
6 *within the markets. Please provide all workpapers, models, documentation, etc, used in the*  
7 *development of this data. Provide this electronically with all formulas attached. Also*  
8 *provide this for the longest period for which this data is available.*

9

10 **Response)** Please see Big Rivers' response to AG 1-125.

11

12 **Witness)** Robert W. Berry

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1 **Item 56)** *With regard to \$6.8 million in net charges and credits for MISO that were*  
2 *also included in the analysis in addition to the energy related revenues and charges that*  
3 *were determined by the Company's production cost modeling.*

4 a. *Please describe in detail what is the \$6.8 million in net charges and credits*  
5 *for MISO.*

6 b. *Explain why these costs were not captured in the production cost model and*  
7 *had to be accounted for separately.*

8 c. *Provide the workpapers, models, documentation electronically with all*  
9 *formulas attached that derived this value. Also, provide this information*  
10 *yearly for the longest period for which this data is available.*

11

12 **Response)**

13 a. Please see Big Rivers' response to AG 1-125.

14 b. The production cost model is designed to estimate hourly sales and purchases  
15 based on projections of MISO Locational Marginal Prices ("LMPs"). Hourly  
16 LMPs for sales and purchases represent four MISO charge types. There are  
17 more than fifty other MISO charge types that are not reflected in LMPs, as  
18 well as MISO transmission costs and revenues, thus the production cost model

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1                   is incapable of projecting these charges and they must be accounted for  
2                   separately.

3           c.       Please see Big Rivers' response to AG 1-125.

4

5   **Witness)**     Robert W. Berry



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- 1 **Item 57)** *With regard to the \$2.27 million in ACES fees,*
- 2 *a. Please provide the workpapers, models, documentation electronically with*
- 3 *all formulas attached that derived this value. Also, provide this information*
- 4 *yearly for the longest period for which this data is available.*
- 5 *b. Please explain how these fees would vary depending on whether Coleman or*
- 6 *Wilson operate or are idled, or whether the Century or Alcan smelters are*
- 7 *part of Big Rivers' load or not.*

8

9 **Response)**

- 10 a. Please see Big Rivers' response to AG 1-126.
- 11 b. Big Rivers' fees will not change with the idling of either Wilson or Coleman.
- 12 ACES fees are calculated on a two year lag, thus Big Rivers' 2013 fees were
- 13 calculated based on Big Rivers' 2011 sales. Big Rivers' 2014 fees will be
- 14 calculated based on Big Rivers' 2012 sales. Although ACES will not reduce
- 15 Big Rivers' fees as a result of the smelter departures, Big Rivers will require
- 16 Century to pay its pro-rata share of the ACES fee in 2014 as a result of the
- 17 executed Century contract, which will result in a savings to Big Rivers'
- 18 Members, estimated to be roughly 34.5% of the total fee.

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1 **Witness)** Robert W. Berry



**Big Rivers Electric Corporation**  
**Case No. 2013-00199**  
**TVA Transmission Costs**

<b>Period</b>	<b>Amount</b>
FY 2010	\$ 2,355,600
FY 2011	\$ 2,355,600
FY 2012	\$ 2,355,600
YTD July 2013	\$ 1,540,700
Estimated Annualized 2013	\$ 2,641,200
Estimated 2014	\$ 2,694,024

**Big Rivers Electric Corporation  
Case No. 2013-00199  
Yearly TVA Transmission Costs**

<b>Contract #</b>	<b>Invoice Date</b>	<b>Invoice #</b>	<b>Amount</b>	<b>Annual Total</b>
00016433	01/19/10	E10-01-5051-P	\$ 196,300	
00016433	02/10/10	E10-02-5051-P	196,300	
00016433	03/04/10	E10-03-5051-P	196,300	
00016433	04/09/10	E10-04-5051-P	196,300	
00016433	05/07/10	E10-05-5051-P	196,300	
00016433	06/11/10	E10-06-5051-P	196,300	
00016433	07/08/10	E10-07-5051-P	196,300	
00016433	08/06/10	E10-08-5051-P	196,300	
00016433	09/10/10	E10-09-5051-P	196,300	
00016433	10/08/10	E11-10-5051-P	196,300	
00016433	11/08/10	E11-115051-P	196,300	
00016433	12/10/10	E11-12-5051-P	196,300	\$ 2,355,600
00016433	01/14/11	E11-01-5051-P-RB0	196,300	2010
00016433	02/08/11	E11-02-5051-P	196,300	
00016433	03/15/11	E11-03-5051-P	196,300	
00016433	04/11/11	E11-04-5051-P	196,300	
00016433	05/12/11	E11-05-5051-P	196,300	
00016433	06/09/11	E11-06-5051-P	196,300	
00016433	07/18/11	E11-07-5051-P	196,300	
00016433	08/08/11	E11-08-5051-P	196,300	
00016433	09/12/11	E11-09-5051-P	196,300	

**Case No. 2013-00199**

**Attachment for Response for KIUC 1-58(a)**

**Witness: Robert W. Berry**

**Page 2 of 3**

**Big Rivers Electric Corporation  
Case No. 2013-00199  
Yearly TVA Transmission Costs**

<b>Contract #</b>	<b>Invoice Date</b>	<b>Invoice #</b>	<b>Amount</b>	<b>Annual Total</b>	
00016433	10/11/11	E12-10-5051-P	196,300		
00016433	11/07/11	E12-11-5051-P	196,300		
00016433	12/08/11	E12-12-5051-P	196,300	\$ 2,355,600	2011
00016433	01/10/12	E12-01-5051-P	196,300		
00016433	02/09/12	E12-02-5051-P	196,300		
00016433	03/07/12	E12-03-5051-P	196,300		
00016433	04/12/12	E12-04-5051-P	196,300		
00016433	05/09/12	E12-05-5051-P	196,300		
00016433	06/11/12	E12-06-5051-P	196,300		
00016433	07/11/12	E12-07-5051-P	196,300		
00016433	08/08/12	E12-08-5051-P	196,300		
00016433	09/12/12	E12-09-5051-P	196,300		
00016433	10/08/12	E13-10-5051-P	196,300		
00016433	11/12/12	E13-11-5051-P	196,300		
00016433	12/10/12	E13-12-5051-P	196,300	\$ 2,355,600	2012
00016433	01/16/13	E13-01-5051-P	220,100		
00016433	02/12/13	E13-02-5051-P	220,100		
00016433	03/08/13	E13-03-5051-P	220,100		
00016433	04/09/13	E13-04-5051-P	220,100		
00016433	05/14/13	E13-05-5051-P	220,100		
00016433	06/11/13	E13-06-5051-P	220,100		
00016433	07/11/13	E13-07-5051-P	220,100	\$ 1,540,700	2013

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**Attachment for Response for KIUC 1-58(a)**

**Witness: Robert W. Berry**

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1 **Item 59)** *With regard to the discussion concerning ACES at page 20 of Mr. Berry's*  
2 *testimony.*

3 *a. Provide all data and results that were provided by Big Rivers to ACES with*  
4 *regards to the work that ACES performed in this proceeding.*

5 *b. Provide all data and results that ACES provided to Big Rivers with regard to*  
6 *the work that ACES performed in this proceeding.*

7 *c. Besides ACES and GDS were any other consultants involved in the*  
8 *development of the analyses performed in this proceeding. For example,*  
9 *who developed the market price forecasts, and fuel forecasts?*

10

11 **Response)**

12 *a. Please see Big Rivers' response to KIUC 1-12 (b, d-g) for the PCM inputs that*  
13 *were provided to ACES.*

14 *b. Please see Big Rivers' response to AG 1-98 for the PCM model exhibits*  
15 *(outputs) that have been provided by ACES.*

16 *c. Market price forecasts used in the PCM were developed by ACES. Fuel*  
17 *forecasts were developed internally by Big Rivers' fuels department. In*  
18 *developing the fuels forecast, the fuels department did utilize coal market*

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1 forecasts from J.D. Energy, Argus Coal Daily, Platts Coal Trader and  
2 Outlook, and ACES/Wood Mackenzie along with market information for coal  
3 from independent coal companies bid solicitations. No other consultants were  
4 utilized.

5

6 **Witness)** Robert W. Berry



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1 **Item 60)** *Please provide the fuel summaries of all of Big Rivers' long-term fuel*  
2 *procurement contracts that were provided by the Fuel department to ACES. Provide them*  
3 *in the same form as they were provided to ACES. (Williams testimony, page 11 at 6).*

4

5 **Response)** Please see Big Rivers' response to KIUC 1-12(b).

6

7 **Witness)** Robert W. Berry

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1 **Item 61)** *Please provide all analyses electronically with all formulas intact that the*  
2 *environmental department performed using as input, data from ACES production cost*  
3 *analyses, to derive emission fees. These costs were then provided to the budget department.*  
4 *Please provide this data for the longest period that the data is available. (Williams'*  
5 *testimony, page 11 at 11).*

6

7 **Response)** Please see the attached CONFIDENTIAL electronic file(s) provided under a  
8 petition for confidential treatment.

9

10 **Witness)** Robert W Berry

**ELECTRONIC  
ATTACHMENT(S)  
PRODUCED  
SEPARATELY**

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 62)** *Please provide the analyses electronically with all formulas intact that were*  
2 *performed by the Energy Services Staff to derive costs and revenues for MISO*  
3 *transmission expenses and revenues, TVA transmission fees and revenues, ACES costs,*  
4 *and MISO administrative fees. Please provide this data for the longest period that the data*  
5 *is available. (Williams testimony, page 12 at 4).*

6

7 **Response)** Please see Big Rivers' responses to AG 1-125, KIUC 1-57, and KIUC 1-58.

8

9 **Witness)** Robert W. Berry

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1 **Item 63)** *With regard to Ms. Barron's testimony concerning replacing idled capacity*  
2 *(page 14), please explain how it was determined that idled capacity would occur only*  
3 *during the months of February through May 2014, and provide the workpapers*  
4 *electronically with all formulas attached that led to the replacement capacity charges of*  
5 *\$510,552 that would be paid to MISO.*

6

7 **Response)** Please see Big Rivers' response to PSC 2-21.

8

9 **Witness)** Lindsay N. Barron

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1    **Item 64)**     *Regarding Mr. Warren's testimony, page 8, at 8, please provide a narrative*  
2    *explanation of how the Big Rivers financial model captures data from the production cost*  
3    *model output file, and provide the financial model and the production cost output files for*  
4    *each case developed in this proceeding. Please provide this electronic, with all formulas*  
5    *intact.*

6  
7    **Response)**    Please refer to Big Rivers' response to AG 1-155 for a narrative explanation  
8    of how the Big Rivers financial model captures data from the production cost model output  
9    file. Big Rivers attached the financial model developed for this proceeding to its confidential  
10   response to PSC 1-57. Big Rivers attached the long-term financial forecast model and  
11   sensitivities regarding the capacity market to its response to PSC 2-14. Big Rivers attached  
12   the production cost output files to its response to AG 1-98.

13

14   **Witness)**     Christopher A. Warren

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1 **Item 65)** *Please provide the capital expenditures workpapers and models associated*  
2 *with the capital budget and financial forecast, as discussed in Mr. Warren's testimony at*  
3 *page 8 line 15. Also, provide the MATS capital expenditures as tracked in a separate sheet*  
4 *for inclusion in the environmental compliance rate base.*

5

6 **Response)** Please refer to the following files attached to Big Rivers' response to PSC 1-  
7 57: "2013-16 Capital Plan (Alcan RC) 4-12-2013.xlsx" and "Financial Forecast (2014-2017)  
8 5-16-2013 (Filed Confidential).xlsx." When reviewing "2013-16 Capital Plan (Alcan RC) 4-  
9 12-2013.xlsx," please refer to the section labeled 'ECP' on each tab to review MATS capital  
10 expenditures. When reviewing "Financial Forecast (2014-2017) 5-16-2013 (Filed  
11 Confidential).xlsx", please refer to the 'Capex & Depr' worksheet for capital expenditures  
12 and the 'ECP' worksheet for MATS related capital expenditures.

13

14 **Witness)** Christopher A. Warren

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1 **Item 66)** *Utilities across the US are conducting coal unit retirement studies on behalf*  
2 *of their customers and determining that it is less expensive to retire the coal units, than to*  
3 *spend capital and continue to operate the units (even ones with significant remaining life*  
4 *and that are considered to be valuable assets). Has Big Rivers conducted such a study? If*  
5 *not, why hasn't Big Rivers conducted such a study to prove that it is economically*  
6 *advantageous to continue to operate the units?*

7

8 **Response)** Please see Big Rivers' response to KIUC 1-51.

9

10 **Witness)** Robert W. Berry



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1    **Item 67)**        *Provide a cost-benefit analysis which illustrates the total of all costs*  
2    *associated with idling generation plant(s) (including but not limited to stranded costs),*  
3    *contrasted with the costs of leaving the plant(s) running in the same format that was used*  
4    *in Exhibit Berry Rebuttal-2 in Case No. 2012-00535.*

5  
6    **Response)**    In Exhibit Berry Rebuttal-2 in Case No. 2012-00535, the exhibit is comparing  
7    the fixed cost savings of idling either the Coleman Station or the Wilson Station. If this  
8    question is correctly understood, it is requesting a comparison of the fixed cost savings of  
9    idling the generation plants, with the cost of leaving the plants running. Big Rivers has said  
10   it will idle both Coleman Station and Wilson Station, therefore the annual fixed cost saving  
11   for 2014-2015 would be the sum of Wilson Station total FDE reduction and the Coleman  
12   Station total FDE reduction, or \$ [REDACTED]. See the attached spreadsheet for the details and  
13   calculations.

14            Big Rivers disagrees with the characterization of these costs as “stranded costs.”

15

16    **Witness)**        Robert W. Berry

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**Attachment for Response to KIUC 1-67**

**FDE Savings Running vs. Idled**

<b>Wilson Lay-Up Savings (2014-2015 Annual Average)</b>		<b>Coleman Lay-Up Savings (2014-2015 Annual Average)</b>	
<b>FDE Non-Labor</b>		<b>FDE Non-Labor</b>	
<b>FDE Labor</b>		<b>FDE Labor</b>	
<b>Total FDE Budget</b>		<b>Total FDE Budget</b>	
<b>Less Lay-Up cost</b>		<b>Less Lay-Up cost</b>	
<b>Less Retained Big Rivers Labor</b>		<b>Less Retained Big Rivers Labor</b>	
<b>Total FDE Budget Reduction</b>		<b>Total FDE Budget Reduction</b>	
<b>Note: Idling a station does not eliminate all fixed costs. Items such as Depreciation, Interest, Property Tax, and Property Insurance remain.</b>			
<b>Total FDE Budget Reduction of running vs idling of Wilson and Coleman Stations</b>			

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1 **Item 68)** *Provide a copy of the unredacted minutes of all Board of Directors meetings*

2 *from January 2011 through the most recent month available.*

3

4 **Response)** Please see Big Rivers' response to AG 1-53.

5

6 **Witness)** Counsel

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 69)** *Please provide a copy of all financial information that addresses the*  
2 *profitability of each Smelter obtained by Big Rivers since January 2011.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it seeks information that  
5 is neither relevant nor likely to lead to the discovery of admissible evidence.

6

7 **Witness)** Counsel

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 70)** *Please indicate if the Company has retained bankruptcy and/or*  
2 *restructuring counsel to advise management and/or the Board of Directors. If so, please*  
3 *indicate when such counsel was retained and provide a copy of the engagement letter,*  
4 *purchase order, and all other writings that address the scope of services that will be*  
5 *provided. Provide all correspondence and documents between BREC and/or its Members*  
6 *and bankruptcy counsel and/or consultant.*

7

8 **Response)** Big Rivers objects to this request on the grounds that it is irrelevant and seeks  
9 information that is protected by the attorney-client and attorney work product privileges.  
10 Notwithstanding these objections, but without waiving them, Big Rivers states as follows.  
11 Neither Big Rivers' management nor its board of directors has retained counsel to advise it  
12 on bankruptcy or restructuring. Big Rivers has retained Haynes and Boone, LLP to help it  
13 respond to information requests and testimony of intervenors on the subjects of bankruptcy  
14 and restructuring. Information regarding the engagement of Haynes and Boone is contained  
15 in Big Rivers' responses to AG 1-256 through AG 1-261.

16

17 **Witness)** Billie J. Richert

**BIG RIVERS ELECTRIC CORPORATION**  
**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION**  
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1 **Item 71)** *Please indicate if the Company has retained bankruptcy and/or*  
2 *restructuring advisors, other than legal counsel, to advise management and/or the Board*  
3 *of Directors. If so, please indicate when such counsel was retained and provide a copy of*  
4 *the engagement letter, purchase order, and all other writings that address the scope of*  
5 *services that will be provided.*

6

7 **Response)** Big Rivers objects to this request on the grounds that it is irrelevant.

8 Notwithstanding this objection, but without waiving it, Big Rivers states that it has not

9 retained a bankruptcy and/or restructuring advisor to advise management and/or Big Rivers'

10 board of directors.

11

12 **Witness)** Billie J. Richert

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 72)** *Please provide the expense by RUS account incurred by month for each*  
2 *professional firm retained by the Company to advise management and/or the Board of*  
3 *Directors on bankruptcy and/or restructuring matters since January 2011 and through the*  
4 *most recent month for which actual expenses are available. Please identify the source of*  
5 *funds used to pay such advisors.*

6

7 **Response)** Big Rivers objects to this request on the grounds that it is irrelevant and seeks  
8 information that is protected by the attorney-client and attorney work product privileges.  
9 Notwithstanding these objections, but without waiving them, please see Big Rivers'  
10 responses to KIUC 1-70 and KIUC 1-71.

11

12 **Witness)** Billie J. Richert

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1 **Item 73)** *Please provide the budgeted expense by RUS account by month for each*  
2 *professional firm retained by the Company to advise management and/or the Board of*  
3 *Directors on bankruptcy and/or restructuring matters from January 2011 through the end*  
4 *of the test year in this proceeding.*

5

6 **Response)** Big Rivers objects to this request on the grounds that it is irrelevant and seeks  
7 information that is protected by the attorney-client and attorney work product privileges.

8 Notwithstanding these objections, but without waiving them, please see Big Rivers'  
9 responses to KIUC 1-70, KIUC 1-71, and KIUC 1-72.

10

11 **Witness)** Billie J. Richert



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1 **Item 74)** *Does Big Rivers continue to retain William Snyder as a consultant? If yes,*  
2 *please provide a detailed description of the scope of Mr. Snyder's duties with Big Rivers.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is irrelevant and not  
5 likely to lead to the discovery of admissible evidence. Notwithstanding this objection, but  
6 without waiving it, Big Rivers states as follows. No. Mr. Snyder's engagement was limited  
7 to Case No. 2012-00535.

8

9 **Witness)** Billie J. Richert

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1 **Item 75)** *Please provide a copy of all documents regarding tariff pricing proposals to*  
2 *or from Alcan and Century for the Sebree and Hawesville Smelters since January 2011,*  
3 *including, but not limited to, the Alcan proposal for a rate of \$43/mWh and the Company's*  
4 *rejection of this offer. This request includes, but is not limited to, all analyses performed*  
5 *by Big Rivers, presentations to the Board of Directors, notes taken in meetings, and*  
6 *correspondence.*

7

8 **Response)** Big Rivers objects to this request on the grounds that it seeks information that  
9 is protected by the attorney-client and attorney work product privileges. Big Rivers also  
10 objects to this request on the grounds that it is overly broad and unduly burdensome. Big  
11 Rivers also objects to this request on the grounds that it seeks information that is neither  
12 relevant nor likely to lead to the discovery of admissible evidence. Notwithstanding these  
13 objections, but without waiving them, please see the attachments to Big Rivers' responses to  
14 AG 1-171 and AG 1-172 in Case No. 2012-00535.

15

16 **Witness)** Counsel

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1 **Item 76)** *Provide a copy of all correspondence and documents between BREC and*  
2 *RUS since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence involving the individuals designated as Big Rivers witnesses in this matter.  
7 Given the foregoing limitation, and notwithstanding the prior objections but without waiving  
8 them, Big Rivers states as follows.

9 Please see Big Rivers' response to AG 1-3, which pertains to correspondence  
10 between Big Rivers and its creditors. Please see Big Rivers' response to AG 1-13, which  
11 pertains to communications between Big Rivers and RUS regarding the RUS corrective plan.  
12 Please see Big Rivers' response to AG 1-23, which pertains to reports, including RUS Form  
13 12, submitted by Big Rivers to RUS. Please see Big Rivers' response to AG-26(a), which  
14 pertains to communications between Big Rivers and its creditors regarding Big Rivers'  
15 financial position. Please see Big Rivers' response to AG 1-111, which pertains to  
16 correspondence between Big Rivers and RUS regarding inspections and maintenance. Please  
17 see Big Rivers' response to AG 1-140, which pertains to load forecast documentation  
18 provided by Big Rivers to RUS. Please see Big Rivers' response to AG 1-176, which

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1 pertains to correspondence between Big Rivers and its creditors regarding MFIR. Please see  
2 Big Rivers' response to AG 1-177, which pertains to descriptions of any new "caveats or  
3 conditions" in Big Rivers' agreements with its creditors. Please see Big Rivers' response to  
4 AG 1-209(b), which pertains to presentations made by Big Rivers to its creditors regarding  
5 the Application. Please see Big Rivers' response to AG-210(b), which pertains to  
6 presentations made by Big Rivers to its creditors regarding possible agreements related to the  
7 Sebree smelter. Please see Big Rivers' response to KIUC 1-1 in Case No. 2012-00535.

8 Please see Big Rivers' response to KIUC 1-2 in Case No. 2013-00125.

9

10 **Witness)** Billie J. Richert, Lindsay N. Barron, Robert W. Berry

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**Response to KIUC 1-76**

**Witness: Billie J. Richert, Lindsay N. Barron, Robert W. Berry**

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1 **Item 77)** *Provide a copy of all correspondence and documents between BREC and*  
2 *CFC since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence involving the individuals designated as Big Rivers witnesses in this matter.  
7 Given the foregoing limitation, and notwithstanding the prior objections but without waiving  
8 them, Big Rivers states as follows.

9 Please see Big Rivers' response to AG 1-3, which pertains to correspondence  
10 between Big Rivers and its creditors. Please see Big Rivers' response to AG 1-24, which  
11 pertains to Big Rivers' draws on its revolving credit. Please see Big Rivers' response to AG-  
12 26(a), which pertains to communications between Big Rivers and its creditors regarding Big  
13 Rivers' financial position. Please see Big Rivers' response to AG 1-176, which pertains to  
14 correspondence between Big Rivers and its creditors regarding MFIR. Please see Big  
15 Rivers' response to AG 1-177, which pertains to descriptions of any new "caveats or  
16 conditions" in Big Rivers' agreements with its creditors. Please see Big Rivers' response to  
17 AG 1-209(b), which pertains to presentations made by Big Rivers to its creditors regarding  
18 the Application. Please see Big Rivers' response to AG-210(b), which pertains to

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**Response to KIUC 1-77**

**Witness: Billie J. Richert, Robert W. Berry**

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1 presentations made by Big Rivers to its creditors regarding possible agreements related to the  
2 Sebree smelter. Please see Big Rivers' response to KIUC 1-2 in Case No. 2012-00535.  
3 Please see Big Rivers' response to KIUC 1-1 in Case No. 2013-00125.

4

5 **Witness)** Billie J. Richert, Robert W. Berry

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1 **Item 78)** *Provide a copy of all correspondence and documents between BREC and*  
2 *CoBank since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence involving the individuals designated as Big Rivers witnesses in this matter.  
7 Given the foregoing limitation, and notwithstanding the prior objections but without waiving  
8 them, Big Rivers states as follows.

9 Please see Big Rivers' response to AG 1-3, which pertains to correspondence  
10 between Big Rivers and its creditors. Please see Big Rivers' response to AG 1-24, which  
11 pertains to Big Rivers' draws on its revolving credit. Please see Big Rivers' response to AG-  
12 26(a), which pertains to communications between Big Rivers and its creditors regarding Big  
13 Rivers' financial position. Please see Big Rivers' response to AG 1-176, which pertains to  
14 correspondence between Big Rivers and its creditors regarding MFIR. Please see Big  
15 Rivers' response to AG 1-177, which pertains to descriptions of any new "caveats or  
16 conditions" in Big Rivers' agreements with its creditors. Please see Big Rivers' response to  
17 AG 1-209(b), which pertains to presentations made by Big Rivers to its creditors regarding  
18 the Application. Please see Big Rivers' response to AG-210(b), which pertains to

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**Response to KIUC 1-78**

**Witness: Billie J. Richert, Robert W. Berry**

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1 presentations made by Big Rivers to its creditors regarding possible agreements related to the  
2 Sebree smelter. Please see Big Rivers' response to KIUC 1-3 in Case No. 2012-00535.  
3 Please see Big Rivers' response to KIUC 1-78 in Case No. 2013-00125.

4

5 **Witness)** Billie J. Richert, Robert W. Berry



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1 **Item 79)** *Provide a copy of all correspondence and documents between BREC and*  
2 *any of its other creditors since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence involving the individuals designated as Big Rivers witnesses in this matter.  
7 Given the foregoing limitation, and notwithstanding the prior objections but without waiving  
8 them, Big Rivers states as follows.

9 Please see Big Rivers' response to AG 1-3, which pertains to correspondence  
10 between Big Rivers and its creditors. Please see Big Rivers' response to AG-26(a), which  
11 pertains to communications between Big Rivers and its creditors regarding Big Rivers'  
12 financial position. Please see Big Rivers' response to AG 1-176, which pertains to  
13 correspondence between Big Rivers and its creditors regarding MFIR. Please see Big  
14 Rivers' response to AG 1-177, which pertains to descriptions of any new "caveats or  
15 conditions" in Big Rivers' agreements with its creditors. Please see Big Rivers' response to  
16 AG 1-209(b), which pertains to presentations made by Big Rivers to its creditors regarding  
17 the Application. Please see Big Rivers' response to AG-210(b), which pertains to

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**Response to KIUC 1-79**

**Witness: Billie J. Richert, Robert W. Berry**

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1 presentations made by Big Rivers to its creditors regarding possible agreements related to the

2 Sebree smelter. Please see Big Rivers' response to KIUC 1-4 in Case No. 2012-00535.

3

4 **Witness)** Billie J. Richert, Robert W. Berry

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**Response to KIUC 1-79**

**Witness: Billie J. Richert, Robert W. Berry**

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1 **Item 80)** *Provide a copy of all correspondence and documents between BREC and*  
2 *MISO since January 1, 2013.*

3  
4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence relating to (i) the Coleman plant's SSR designation, and (ii) the possible  
7 termination of Big Rivers' MISO membership. Given the foregoing limitations, and  
8 notwithstanding the prior objections but without waiving them, Big Rivers states as follows.

9 Please see Big Rivers' response to AG 1-28, which pertains to descriptions of Big  
10 Rivers' meetings and discussions with MISO. Please see Big Rivers' response to AG 1-108,  
11 which pertains to studies performed by MISO. Please see Big Rivers' response to AG 1-134,  
12 which pertains to reports and spreadsheets related to MISO's assessment of Big Rivers'  
13 transfer capability. Please see Big Rivers' response to AG 1-211, which pertains to studies  
14 and related correspondence regarding a possible agreement related to the Sebree smelter.  
15 Please see Big Rivers' response to AG 1-212, which pertains to MISO Y-2 study requests or  
16 reports regarding a possible agreement related to the Sebree smelter. Please see Big Rivers'  
17 response to KIUC 1-5 in Case No. 2012-00535. Please see Big Rivers' response to AG 1-20  
18 in Case No. 2013-00221.

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1

2 **Witness)** Billie J. Richert, Robert W. Berry

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1 **Item 81)** *Provide a copy of all correspondence and documents between BREC and its*  
2 *Members since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence involving the individuals designated as Big Rivers witnesses in this matter.  
7 Given the foregoing limitation, and notwithstanding the prior objections but without waiving  
8 them, Big Rivers states as follows.

9 Please see Big Rivers' response to AG 1-72(a), which pertains to documents  
10 regarding changes to Big Rivers' Amended Bylaws. Please see Big Rivers' response to AG  
11 1-75, which pertains to communications between Big Rivers and its Members' CEOs  
12 regarding the retail impact of proposed revenue changes. Please see Big Rivers' response to  
13 AG 1-209(a), which pertains to presentations made to Kenergy regarding the Application.  
14 Please see Big Rivers' response to AG-210(a), which pertains to presentations made to  
15 Kenergy regarding possible agreements related to the Sebree smelter.

16

17 **Witness)** Billie J. Richert, Robert W. Berry, John Wolfram, Mark A. Bailey

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Response to KIUC 1-81**

**Witness: Billie J. Richert, Robert W. Berry, John Wolfram, Mark A. Bailey  
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1 **Item 82)** *Provide a copy of all correspondence and documents between BREC and*  
2 *any financial institutions, private equity firms or utilities relating to the possible sale of Big*  
3 *Rivers' assets since January 1, 2013.*

4

5 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
6 unduly burdensome. Big Rivers also objects to this request on the grounds that it seeks  
7 information that is irrelevant and not likely to lead to the discovery of admissible evidence.  
8 Notwithstanding these objections, but without waiving them, please see Big Rivers' response  
9 to PSC 2-16.

10

11 **Witness)** Robert W. Berry

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1 **Item 83)** *Provide a copy of all correspondence internally within BREC regarding*  
2 *BREC's rate case filing.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Big Rivers also objects to this request on the grounds that it seeks  
6 information protected by the attorney-client and work product privileges.

7

8 **Witness)** Counsel

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1 **Item 84)** *Provide a copy of all correspondence and documents between BREC and*  
2 *the three rating agencies since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence involving the individuals designated as Big Rivers witnesses in this matter.  
7 Given the foregoing limitation, and notwithstanding the prior objections but without waiving  
8 them, Big Rivers states as follows.

9 Please see Big Rivers' response to AG 1-4, which pertains to documents showing the  
10 "substance and status of conversations" with the credit rating agencies. Please see Big  
11 Rivers' response to AG 1-16, which pertains to Big Rivers' provision of disclosures to the  
12 credit rating agencies. Please see Big Rivers' response to AG 1-73(a)-(c), (e)-(f), which  
13 pertains to reports, correspondence, and documentation provided by Big Rivers to the credit  
14 rating agencies. Please see Big Rivers' response to AG 1-209(b), which pertains to  
15 presentations made by Big Rivers to the credit rating agencies regarding the Application.  
16 Please see Big Rivers' response to AG-210(b), which pertains to presentations made by Big  
17 Rivers to the credit rating agencies regarding possible agreements related to the Sebree

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**Response to KIUC 1-84**

**Witness: Billie J. Richert, Robert W. Berry**

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1 smelter. Please see Big Rivers' response to KIUC 1-9 in Case No. 2012-00535. Please see

2 Big Rivers' response to KIUC 1-5 in Case No. 2013-00125.

3

4 **Witness)** Billie J. Richert, Robert W. Berry

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**Response to KIUC 1-84**

**Witness: Billie J. Richert, Robert W. Berry**

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1 **Item 85)** *Provide a copy of all correspondence and documents between BREC and*  
2 *Century Aluminum since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence between Robert W. Berry and any of the following employees of Century: (i)  
7 Michael Early; (ii) John Hoerner; and (iii) Michael Bless. Given the foregoing limitation,  
8 and notwithstanding the prior objections but without waiving them, please see Big Rivers'  
9 responses to AG 1-36 and AG 1-37.

10

11 **Witness)** Robert W. Berry

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1   **Item 86)**     *Provide a copy of all correspondence and documents between BREC and*  
2   *Alcan-Rio Tinto since January 1, 2013.*

3

4   **Response)**   Big Rivers objects to this request on the grounds that it is overly broad and  
5   unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6   correspondence involving the individuals designated as Big Rivers witnesses in this matter.  
7   Given the foregoing limitation, and notwithstanding the prior objections but without waiving  
8   them, please see Big Rivers' responses to AG 1-36, AG 1-37, and AG 1-41.

9

10   **Witness)**     Robert W. Berry

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1 **Item 87)** *Provide copies of all reports or presentations, including any model runs*  
2 *(with formulas intact) that have been prepared by BREC since January 1, 2013, for use by*  
3 *or presentation to any credit rating agency, investment banking institution, investment*  
4 *advisory service, credit support institution or institutional investment group or entity.*

5

6 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
7 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
8 documents involving the individuals designated as Big Rivers witnesses in this matter.

9 Given the foregoing limitation, and notwithstanding the prior objections but without waiving  
10 them, Big Rivers states as follows.

11 Please see Big Rivers' response to AG 1-4, which pertains to documents showing the  
12 "substance and status of conversations" with the credit rating agencies. Please see Big  
13 Rivers' response to AG 1-16, which pertains to Big Rivers' provision of disclosures to the  
14 credit rating agencies. Please see Big Rivers' response to AG 1-73(a)-(c), (e)-(f), which  
15 pertains to reports, correspondence, and documentation provided by Big Rivers to the credit  
16 rating agencies. Please see Big Rivers' response to AG 1-209(b), which pertains to  
17 presentations made by Big Rivers to the credit rating agencies regarding the Application.  
18 Please see Big Rivers' response to AG-210(b), which pertains to presentations made by Big

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**Response to KIUC 1-87**

**Witness: Billie J. Richert, Robert W. Berry**

**Page 1 of 2**

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 Rivers to the credit rating agencies regarding possible agreements related to the Sebree  
2 smelter. Please see Big Rivers' response to KIUC 1-9 in Case No. 2012-00535. Please see  
3 Big Rivers' response to KIUC 1-5 in Case No. 2013-00125.

4

5 **Witness)** Billie J. Richert, Robert W. Berry

**Case No. 2013-00199**

**Response to KIUC 1-87**

**Witness: Billie J. Richert, Robert W. Berry**

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**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 88)** *Provide a copy of all correspondence and documents between BREC and*  
2 *ACES since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Counsel for KIUC has agreed to limit this request to seek only  
6 correspondence related to (i) production cost modeling, or (ii) market price forecasts. Given  
7 the foregoing limitation, and notwithstanding the prior objections but without waiving them,  
8 Big Rivers states as follows.

9 Please see Big Rivers' response to KIUC 1-16, which pertains to analyses, studies,  
10 reports, and correspondence regarding ACES market price forecast assumptions and  
11 production cost assumptions. Please see Big Rivers' response to AG 1-96, which pertains to  
12 data provided by Big Rivers to ACES for the production cost model. Please see Big Rivers'  
13 response to AG 1-99, which pertains to correspondence regarding PAR model outputs.  
14 Please see Big Rivers' response to AG 1-112, which pertains to data provided by Big Rivers  
15 to ACES to use as an input in the financial model. Please see Big Rivers' response to AG 1-  
16 113, which pertains to ACES production cost model output data. Please see Big Rivers'  
17 response to AG 1-126(a)-(c), which pertains to ACES fees, quotes, contracts, and related  
18 matters.

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
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**Response to the Kentucky Industrial Utility Customers, Inc.'s  
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**September 3, 2013**

1

2 **Witness)**      Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 89)** *Provide a copy of all correspondence and documents between BREC and*  
2 *PACE Global since January 1, 2013.*

3

4 **Response)** There has been no correspondence between Big Rivers and PACE Global  
5 since January 1, 2013.

6

7 **Witness)** Robert W. Berry



**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 90)** *Provide a copy of all correspondence and documents between BREC and*  
2 *IHS since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Big River also objects to this request on the grounds that it seeks  
6 information that is irrelevant and not likely to lead to the discovery of admissible evidence.

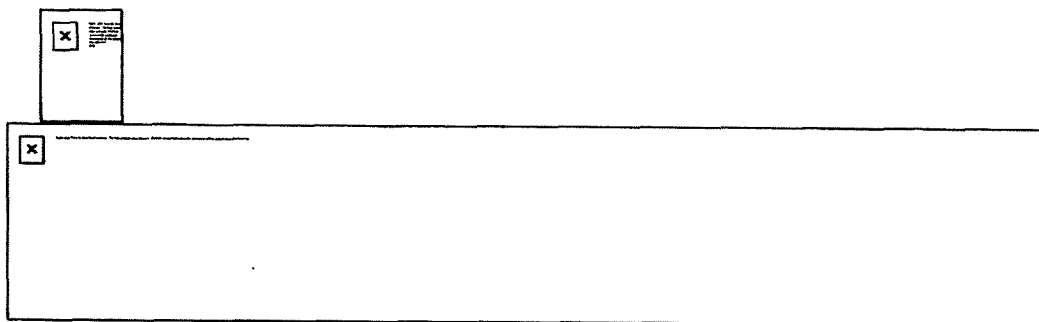
7 Notwithstanding these objections, but without waving them, please see the attached  
8 correspondence.

9

10 **Witness)** Robert W. Berry

**From:** Bob MacKnight, IHS Research Director Upstream <ihs@info.ihs.com>  
**Sent:** Monday, August 05, 2013 2:01 PM  
**To:** Michael Mattox  
**Subject:** Understanding the Paradigm Shift in North American Oil, IHS Webinar Series

If you have trouble viewing this email, [read the online version.](#)



## Understanding the Paradigm Shift in North American Oil

**Learn More and Register**

### IHS announces a new Integrated Insight Energy Webinar Series

The surge of North American oil and gas has created a new market model with diverse opportunities, new operational standards and benchmarking, new price trends, and a search for new plays.

Webinars will be conducted every Thursday at 10 am CDT during August.

#### The Shift to Liquids: It's not all Oil

**August 8 (10 a.m. CDT) – Register Here**

Industry's shift to liquids has also affected the NGL market, gas flaring, water projects and company valuations.

#### Deep Dive into the Bakken Shale

**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**

**August 15 (10 a.m. CDT) – Register Here**

Unconventional development of the Bakken Shale has redefined drilling strategies, logistics, and corporate investment.

**Hunting the next Eagle Ford**

**August 22 (10 a.m. CDT) – Register Here**

Operators are working to replicate the success of the Eagle Ford in emerging opportunities, both domestic and abroad.

I hope you can join us for this exciting program.

Sincerely,

Bob MacKnight, IHS Research Director Upstream

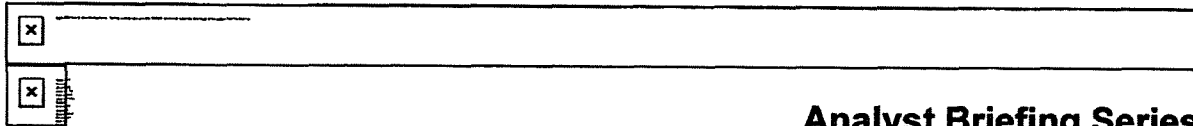


IHS, 15 Inverness Way East, Englewood, CO 80112, USA | Email: [response2@ihs.com](mailto:response2@ihs.com)  
This email was sent to: [mike.mattox@bigrivers.com](mailto:mike.mattox@bigrivers.com)

Please do not reply, this is an unmonitored mailbox. Please update your [email preferences](#) or [unsubscribe](#)  
Need help? Contact the [IHS Sales Team](#), [IHS Customer Care](#) or via the email address [response2@ihs.com](mailto:response2@ihs.com)

**From:** IHS Emerging Energy Research <eer@ihs.com>  
**Sent:** Tuesday, May 07, 2013 8:33 AM  
**To:** Michael Mattox  
**Subject:** Webcast Invite: Renewables Power On in Emerging Markets

To view this email as a web page, go [here](#).



## Analyst Briefing Series

IHS Emerging Energy Research is pleased to invite you to our upcoming Analyst Briefing: **Renewables Power On in Emerging Markets**

IHS Emerging Energy Research has recently launched a new research advisory service, Emerging Renewable Power Markets, that tracks key trends in countries with fast developing renewable power industries. New growth opportunities are geographically dispersed outside of Europe and North America, and present challenges to power sector and energy policies requiring a strong understanding of countries' electricity supply challenges.

This *Analyst Briefing* evaluates the key trends that are driving renewable power markets in Asia Pacific, Latin America, Middle-East, Africa and Emerging European markets. Our emerging market analysts will provide an expert assessment of what it takes to succeed in emerging renewables markets, the risks and barriers to overcome, and signposts to watch.

[Click here to register for this Analyst Briefing](#)

*(After registering you will receive an email with access instructions)*

Key questions addressed in this webcast will include:

- How do investment opportunities line up in emerging markets in terms of size, maturity, and technology mix?
- What are key signals to watch in early stage markets generating more steady demand?
- How are governments, project sponsors, state utilities, and OEMs interacting to mitigate risk for financing and drive the renewables industry?
- What are the key elements of successful entry strategies to date in

### Renewables Power On in Emerging Markets

#### DATE AND TIME:

Thursday, 16 May 2013

17:00-17:45 CEST (Brussels)  
11:00-11:45 EDT (New York)

#### SPEAKERS:

**Keith Hays**  
Research Director

**Alex Klein**  
Research Director

**Silvia Macri**  
Research Analyst

*This webcast will run for approximately 45 minutes including a question and answer period.*

**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**

terms of value chain positioning and geographic footprint?

This webcast is based on key findings from our new **research advisory service - *Emerging Renewable Power Markets Advisory*** . To gain access to this Advisory service please reply to this email or contact [eer@ihs.com](mailto:eer@ihs.com)

Feel free to contact me if you have additional questions. We look forward to your participation.

Best Regards,

Craig E. Urch  
Senior Product Manager  
[craig.urch@ihs.com](mailto:craig.urch@ihs.com)

This email was sent to: [mike.mattox@bigrivers.com](mailto:mike.mattox@bigrivers.com)

This email was sent by: IHS Global Inc  
15 Inverness Way E. Englewood, CO 80112 USA

We respect your right to privacy - [view our policy](#)

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**From:** myresearch-account@ihscera.com  
**Sent:** Wednesday, October 10, 2012 11:14 AM  
**To:** Michael Mattox  
**Subject:** Your CERA Account Details

PLEASE DO NOT REPLY TO THIS AUTOMATED MESSAGE.  
For assistance in North America, please send an e-mail to CustomerCare@ihs.com  
For assistance in LMEA or APAC, please contact customer.support@ihs.com

myresearch.ihscera.com/



## IHS CERA Account Details

Welcome to IHS CERA!

Your new IHS CERA account has been created and is ready for immediate use.

**Your User Name:** [REDACTED]

**Your Password:** [REDACTED]

Please take a moment to log in right now and change your password to something that will be easier for you to remember. We recommend that you copy and paste your starter password into the log in page to avoid typographical errors.

IHS CERA is just a click away at <http://myresearch.ihscera.com/>

Best Regards,  
IHS Customer Care

[Site Map](#) [Privacy Policy](#)

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**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**



**Case No. 2013-00199, Attachment for Response to KIUC 1-90**  
**Witness: Robert W. Berry, Page 6 of 53**

Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

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**From:** Perry, Mike <Mike.Perry@ihs.com>  
**Sent:** Thursday, August 01, 2013 1:42 PM  
**To:** Duane Edward Braunecker  
**Cc:** Klaessig, Alex  
**Subject:** FW: Timeline for Duane  
**Attachments:** EPA's regulatory timeline under IHS CERA's planning scenario\_071213.pptx

Hello Duane,

Please see the email from Alex (below) and the attached EPA timeline for our planning scenario. Thanks for your interest and spending some time with us today to clarify some of our assumptions around the scenarios. We always value interaction and feedback from our clients. If any additional questions arise or if your colleagues would like to schedule a call, please don't hesitate to contact me to coordinate.

Best regards,

Mike Perry  
Account Executive  
Energy Insight



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Fax: +1 303 858 6706  
[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

---

**From:** Klaessig, Alex  
**Sent:** Thursday, August 01, 2013 12:38 PM  
**To:** Perry, Mike  
**Subject:** Timeline for Duane

Hi Mike,

Could you forward this on to Duane at Big Rivers and let him know we'd love to model some scenarios for him? Also, please tell him I said thanks for the update on their MATS compliance plants, it's always good to ground truth our assumptions on retrofits for power plants.

Let me know if there's anything else I can do to help.



**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**



**Alex Klaessig**  
Cambridge, MA  
[www.ihs.com](http://www.ihs.com)

Phone: +1 617.914.0266  
[alex.klaessig@ihs.com](mailto:alex.klaessig@ihs.com)

**Case No. 2013-00199, Attachment for Response to KIUC 1-90**  
**Witness: Robert W. Berry, Page 8 of 53**

**From:** Perry, Mike <Mike.Perry@ihs.com>  
**Sent:** Monday, July 29, 2013 2:12 PM  
**To:** Duane Edward Braunecker  
**Subject:** IHS CERA Environmental Questions

Hi Duane,

I hope you had a good weekend. I was wondering if you had any time this week to discuss the follow up items around the environmental inputs into the scenario modeling. Please let me know what dates/times work best for you and we will do our best to accommodate.

Regards,

Mike Perry  
Account Executive  
Energy Insight



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[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

---

**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**

---

**From:** Perry, Mike <Mike.Perry@ihs.com>  
**Sent:** Friday, July 26, 2013 1:18 PM  
**To:** Duane Edward Braunecker  
**Cc:** Griffith, Mark  
**Subject:** IHS CERA Recorded Scenario Briefings

Hi Duane,

Once you log on to the system and navigate to the "North American Gas & Power Scenarios – Home", there is a link on the left titled "Conference Calls". This provides a list of all recent conference calls that have been performed as part of the service. At the top of the list (for now) is the "North American Gas and Power Scenario Advisory Service: Spring 2013 overview" which provides a good overview of the current model assumptions (link below):

<http://myresearch.ihscera.com/servlet/cats?documentID=2570955&serviceID=46985&pageContent=art&group=fea;53115>

Additionally, we will send out invitations for the fall update ahead of that upcoming webcast so that you can participate in real time.

Regards,

Mike Perry  
Account Executive  
Energy Insight



---

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Cell: +1 720 202 9932  
Fax: +1 303 858 6706  
[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

---

**From:** Perry, Mike <Mike.Perry@ihs.com>  
**Sent:** Friday, July 26, 2013 11:29 AM  
**To:** Duane Edward Braunecker  
**Subject:** RE: IHS CERA price curves (BREC).

Hi Duane,

.Sorry for the delay I was waiting to hear back from research about their availability. It looks like 1pm CST works for us. The key researcher on the environmental component is out until next week, but I think he will be able to respond to the environmental questions via email (or separate call) next week.

I will send out a meeting invite shortly with call-in information for 1pm CST today.

Best regards,

Mike Perry  
Account Executive  
Energy Insight



---

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---

**From:** Duane Edward Braunecker [mailto:Duane.Braunecker@bigrivers.com]  
**Sent:** Friday, July 26, 2013 7:57 AM  
**To:** Perry, Mike  
**Subject:** RE: IHS CERA price curves (BREC).

Hi Mike,

Lindsay and Mike M. would like to participate on the call. It looks like early afternoon today would work for us (sometime between 1 and 3 PM CST) or if that is too late of a notice, I will look at next week.

Thanks,

Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

Duane

---

**From:** Perry, Mike [<mailto:Mike.Perry@ihs.com>]  
**Sent:** Wednesday, July 24, 2013 12:02 PM  
**To:** Duane Edward Braunecker  
**Subject:** RE: IHS CERA price curves (BREC).

Hi Duane,

Sounds good. I will wait for you to coordinate with your colleagues and look to you for direction on timing the call. We look forward to speaking with you.

All the best,

Mike

---

**From:** Duane Edward Braunecker [<mailto:Duane.Braunecker@bigrivers.com>]  
**Sent:** Wednesday, July 24, 2013 11:00 AM  
**To:** Perry, Mike  
**Subject:** RE: IHS CERA price curves (BREC).

Hi Mike,

And yes, I believe a conference call would be beneficial. I am not in the office today – working at Coleman Station and I would like to ask if any other Big Rivers' personnel would like to participate. I am back in the office tomorrow so I will let you know.

Thanks,

Duane

---

**From:** Perry, Mike [<mailto:Mike.Perry@ihs.com>]  
**Sent:** Wednesday, July 24, 2013 10:52 AM  
**To:** Duane Edward Braunecker  
**Subject:** RE: IHS CERA price curves (BREC).

Hello Duane,

Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

Your questions regarding the assumptions that go into our long term forecasted power prices. I have sent your email on to the product director, who would also like to offer up a conference call which would allow for a more dynamic environment where any follow-on questions could be answered on the fly. Please let me know if you would like me to set up a call with our experts and when a good time might be.

Best regards,

Mike Perry  
Account Executive  
Energy Insight



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Cell: +1 720 202 9932  
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[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

---

**From:** Duane Edward Braunecker [<mailto:Duane.Braunecker@bigrivers.com>]  
**Sent:** Wednesday, July 24, 2013 8:42 AM  
**To:** Perry, Mike  
**Subject:** FW: IHS CERA price curves (BREC).

Mike,

Hi, I received your name from Mike Thompson per email below. I am Duane Braunecker and I oversee the production cost modeling for Big Rivers. I am interested in your power price forecasts and what assumptions are included in developing the pricing. Questions are listed below.

1. The 2013 Spring price forecast lists monthly on peak and off peak pricing from 2010 thru 2035. Of course, 2010 thru April, 2013 is historically with the remaining months being forecasted. Can you explain in general terms how the forecast is developed, i.e. do you utilize broker values in the near term and then inflate values in the outer term?
2. Does IHS only update/publish the power pricing every six months (Spring and Fall)?
3. What environmental assumptions does the power pricing (Indiana Hub) include and when are they implemented? For example, Big Rivers' fleet is mostly coal fired and we are currently predicting to be MATS compliant in April, 2015. Does the price forecast have any assumptions for MATS compliance? What about the other environmental laws that may or may not be coming for coal fired units, i.e. CCR, steam effluent, clean air revisions, 316a and 316b, etc.?
4. If requested, would IHS be able to provide power price forecasts based on assumptions of the different environmental laws?
5. Does the Indiana Hub power pricing include a carbon tax?

Please give me a call or email if the questions are not clear.

Thanks,

Duane

**Duane Braunecker**  
Manager – Production Services

**Big Rivers Electric Corporation**

201 Third St.  
Henderson, KY 42420  
Office: (270) 844-6191  
Cell: (270) 993-8409  
[duane.braunecker@bigrivers.com](mailto:duane.braunecker@bigrivers.com)

---

**From:** Mike Thompson  
**Sent:** Tuesday, July 23, 2013 9:14 AM  
**To:** Duane Edward Braunecker  
**Subject:** FW: IHS CERA price curves (BREC).

---

**From:** Perry, Mike [<mailto:Mike.Perry@ihs.com>]  
**Sent:** Wednesday, June 19, 2013 11:56 AM  
**To:** Mike Thompson  
**Subject:** FW: IHS CERA price curves (BREC).

Hi Mike,

I see that Petya has forwarded the link to the Spring update data that was released yesterday. This release should have all of the price forecasts that you requested yesterday. If you have any outstanding questions, please don't hesitate to give me a call.

Best regards,

Mike Perry  
Account Executive  
Energy Insight



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Fax: +1 303 858 6706  
[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

---

**From:** Madzharova, Petya  
**Sent:** Tuesday, June 18, 2013 3:01 PM  
**To:** [Mike.Thompson@bigrivers.com](mailto:Mike.Thompson@bigrivers.com)  
**Cc:** Burke, Stephen  
**Subject:** FW: IHS CERA price curves (BREC).

Mike,

You can find our long-term projections for Indiana Hub prices and MISO capacity prices in our NASC Global Redesign tables - Tables 30-34. I've attached our most recent Spring 2013 update.

These tables will actually be posted on our website tonight, but I'm emailing them to you in advance. You'll be able to find them here, accompanied by our gas and environmental outlooks as well:

<http://myresearch.ihs cera.com/servlet/cats?serviceID=46985&pageContent=homePage&group=home%3B1&documentID=2408319>

Best regards,  
Petya

---

**From:** Mike Thompson [<mailto:Mike.Thompson@bigrivers.com>]  
**Sent:** Tuesday, June 18, 2013 2:12 PM  
**To:** Burke, Stephen  
**Subject:** FW: IHS CERA price curves (BREC).

---

**From:** Mike Thompson  
**Sent:** Tuesday, June 18, 2013 1:03 PM  
**To:** 'Taylor, Kyle'  
**Subject:** RE: IHS CERA Membership Renewal

Kyle,



**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**

Would I need to talk to at IHS to get recent 15-year forecasts of:

1. MISO/IN Hub energy prices (monthly ATC \$/MWhr)?
2. MISO capacity market prices (\$/MW-month)?

Thanks,  
Mike Thompson  
Mngr Power Supply & Market Operations  
Big Rivers Electric Corp  
(270)844-6164  
(270)577-2271 cell

---

**From:** Taylor, Kyle [<mailto:Kyle.Taylor@ihs.com>]  
**Sent:** Wednesday, June 05, 2013 12:51 PM  
**To:** Mike Thompson  
**Subject:** IHS CERA Membership Renewal

Mike,

Thank you for your time during our recent call. I am sorry for the confusion on your renewal and hope that we can work with you and your colleagues over the remaining months of your term to help ensure that you receive value for your membership. If I can schedule a call with you and Mark Griffith who leads our North American Scenarios team please let me know. I know that your account manager Mike Perry was able to provide you with price strips for Cin-Hub and in February and we would be happy to help with any other needs that you have.

As we discussed I am attaching a copy of your invoice. It looks like the mailing was returned to us so please let me know if I can update your address. As we discussed the renewal process requires at least a 30 day notice of cancellation in advance of your renewal date. If you would like to send notification in relation to your renewal at the end of your current term via email I will respond with confirmation.

I also wanted to make sure that you were aware of the recent series of 11 webcasts that we did for our members. We presented a lot of very valuable information and received very good feedback from our membership. The details and links for each session are below and I would encourage you and your colleagues to take advantage of these sessions. I have also attached this information in a PowerPoint to make it easy to forward.

Thank you for those that were able to participate in our Member Webcast series. For those that were not able to join, below you will find playback links for each of the 11 webcasts focused on key topical and regional issues facing North American energy markets. We welcome any feedback or suggestions for future webcast topics. For questions or comments please email Will Dailey at [Will.Dailey@ihs.com](mailto:Will.Dailey@ihs.com).

**Member Webcast Recordings**

To listen to recordings of our webcasts, please follow the links below:

**Regional Gas and Power Webcasts**

**Texas Gas and Power Market Outlook: Power Market Tightness Amid the Natural Gas Boom**

**Northeast Gas and Power Market Outlook: Supply Seasonality**

**West Gas and Power Market Outlook: Natural Gas Fills in the Gaps**

**Southeast Gas and Power Market Outlook: Negotiating Constraints**

**Mid-Continent Gas and Power Market Outlook**

**Mid-Atlantic/PJM Gas and Power Market Outlook**

**Gas and Coal Supply and The Potential For Exports**

**Webcasts on Key Energy Topics**

**State of the North American Power Business: Pressure From All Sides**

**North American Natural Gas: The Shale Boom Evolves**

**North American Economy and Energy Demand: Ready to Take Off?**

**North American Energy: A Revolutionary Decade**

*(You will be prompted to login with your email address. Once you have done so the webcast will start automatically)*

If I can be of assistance in any way please let me know. I hope to speak with you again soon.

Best regards,

Kyle Taylor  
Senior Director, Business Development  
Energy Insight



**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**

Page B-3  
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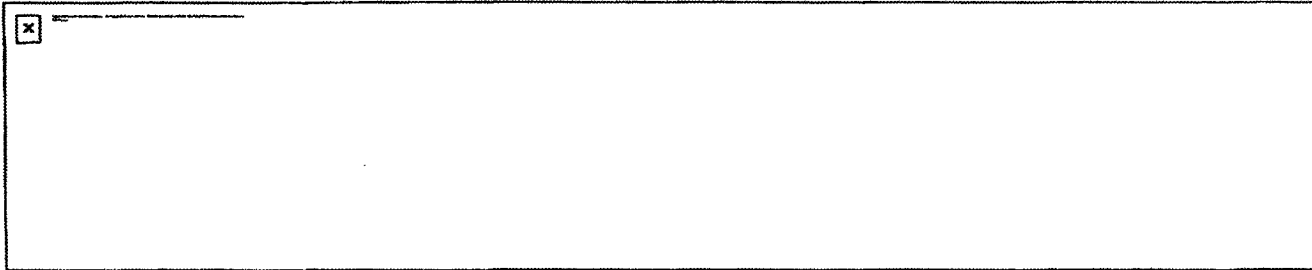
**If you require immediate assistance please contact your regional IHS Customer Care team:**  
Americas: 1-800-IHS-CARE (1-800-447-2273) [CustomerCare@ihc.com](mailto:CustomerCare@ihc.com)  
European, African and Middle East Region: +44 (0) 1344 328 300 [Customer.Support@ihc.com](mailto:Customer.Support@ihc.com)

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Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

**From:** IHS Inc. <ihs@info.ihs.com>  
**Sent:** Wednesday, August 07, 2013 11:24 AM  
**To:** Michael Mattox  
**Subject:** Early bird deadline expires August 16th and new speakers announced for the IHS Forum

If you have trouble viewing this email, [read the online version](#).



Understanding the complex interplay between current and future economic trends, geopolitics, technological advancements, commodity availability, and regulatory changes is essential to energy business leaders today.

**Join IHS thought leaders and fellow decision-makers at the IHS Forum in Houston, Texas, September 17-19 for must-have information and substantive discussions on these key concerns.**

The evolving shale industry in North America is creating a surplus of byproduct natural gas liquids. Emerging trends in capacity payment mechanisms are impacting power business models. Coal-fired generation in the United States is at a crossroads. The continuing geopolitical turmoil across the Middle East and North Africa is affecting global oil prices.

**Key discussion topics with IHS experts include:**

- The Global Economic Outlook  
**Nariman Behraves**, Chief Economist
- North American Power Outlook: State of the Power Business  
**Jone-Lin Wang**, Managing Director and Head of Global Power Group
- Water Across Verticals: The impact of availability, temperature and costs on industrial operations and strategy  
**Stewart Ramsey**, Sr. Principal Economist; **Sarah Fletcher**, Senior Research Analyst; **Steven Knell**, Associate Director

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Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

Special Dialogue on environmental impact of oil & gas operations

**Samantha Gross**, Director; **Tanuj Deora**, Director

- The Missing Money Problem in the North American Power Market  
**Lawrence Makovich**, Vice President and Senior Advisor for Global Power
- A look at the potential of LNG in transportation in the United States, China, and Europe  
**Tiffany Groode**, Director
- The Future of Coal-Fired Generation  
**Patty DiOrio**, Sr. Manager Research; **James Stevenson**, Sr. Manager Research

This special event connects ideas, insight, and expertise on the core issues shaping global and regional markets. IHS experts and guest speakers will explore the theme of *Industry and Energy Transformation in the Americas: Implications for Global Strategies* as part of a robust agenda.

We hope you **join us** in Houston to take advantage of diverse content in interactive sessions on energy, economics, construction, chemicals and more, along with access to IHS experts, and **enhanced networking opportunities**.

IHS, 15 Inverness Way East, Englewood, CO 80112, USA | Email: [response2@ihs.com](mailto:response2@ihs.com)  
This email was sent to: [mike.mattox@bigrivers.com](mailto:mike.mattox@bigrivers.com)

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Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

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**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:40 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (2)  
**Attachments:** Big Rivers Renewal 20130103.xlsx

---

**From:** Perry, Mike [<mailto:Mike.Perry@ihs.com>]  
**Sent:** Thursday, January 03, 2013 2:50 PM  
**To:** Mike Thompson  
**Subject:** RE: New Account Manager for IHS Services

Mike,

Please find the attached renewal pricing proposal for your review. I have included options for CERA Week passes if those are of interest to you and your organization. We are honoring discounted prices to CERA Week if purchased by 1/31/2013. I will give you a call momentarily to discuss the business issues that are top of mind for you and Big Rivers to see if there is any additional research and guidance that the IHS Energy Insight teams might be able to provide.

Kind regards,

Mike Perry

Mike Perry  
Sr. Account Manager  
Energy Insight



15 Inverness Way E.  
Englewood, CO 80112  
[www.ihs.com](http://www.ihs.com)

Phone: +1 303 397 2678  
Cell: +1 720 202 9932  
Fax: +1 303 858 6706  
[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

---

**From:** Mike Thompson [<mailto:Mike.Thompson@bigrivers.com>]  
**Sent:** Thursday, January 03, 2013 9:54 AM

Case No. 2013-00199, Attachment for Response to KIUC 1-90  
Witness: Robert W. Berry, Page 21 of 53

Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

Subject: RE: New Account Manager for IHS Services

Mike,

Please send us a renewal proposal for sure.

As to other services available that we are not presently subscribed to . . . I guess I'm not aware of what those might be. Could you give me a call sometime today?

Mike Thompson

Mngr Power Supply & Market Operations

Big Rivers Electric Corp

(270)844-6164

(270)577-2271 cell

---

**From:** Perry, Mike [mailto:Mike.Perry@ihs.com]

**Sent:** Thursday, January 03, 2013 10:41 AM

**To:** Mike Thompson

**Subject:** RE: New Account Manager for IHS Services

Mike,

Thanks for the note. It looks like your subscription to the North American Gas & Power Scenarios service is due to expire at the end of February. I can put together a proposal for renewal for you today, are there any additional services that might benefit Big Rivers Electric Corp or should I generate the proposal as a straight renewal?

Regards,

Mike Perry

Mike Perry  
Sr. Account Manager  
Energy Insight



15 Inverness Way E.  
Englewood, CO 80112  
www.ihs.com

Phone: +1 303 397 2678  
Cell: +1 720 202 9932  
Fax: +1 303 858 6706  
[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

---

**From:** Mike Thompson [<mailto:Mike.Thompson@bigrivers.com>]  
**Sent:** Thursday, January 03, 2013 6:56 AM  
**To:** Perry, Mike  
**Subject:** RE: New Account Manager for IHS Services

Thanks, Mike.  
First question for you . . . .  
Is our subscription due to run out soon?

Mike Thompson  
Mngr Power Supply & Market Operations  
Big Rivers Electric Corp  
(270)844-6164  
(270)577-2271 cell

---

**From:** Perry, Mike [<mailto:Mike.Perry@ihs.com>]  
**Sent:** Wednesday, January 02, 2013 1:41 PM  
**To:** Mike Thompson  
**Subject:** New Account Manager for IHS Services

Mike,

Please allow me to introduce myself as your new account manager for all of your IHS Energy Insight services. While new to the IHS Energy Insight team, I am not new to the energy market space. I have helped serve the needs of energy market participants for the last 15 years in the energy market data, software, and consulting space. Hopefully this experience will help me to better understand some of the challenges that you and your organization face and where IHS capabilities can guide your strategies for addressing the challenges, risks, and opportunities ahead.

I look forward to meeting you and your colleagues in the near future and learning more about your existing relationships with the IHS research teams. If you have any questions in the meantime, please do not hesitate to give me a call.

Regards,

Mike Perry



Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90



Sr. Account Manager  
Energy Insight

15 Inverness Way E.  
Englewood, CO 80112  
www.ihs.com

Phone: +1 303 397 2678  
Cell: +1 720 202 9932  
Fax: +1 303 858 6706  
[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

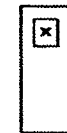
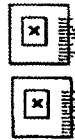
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**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:40 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (3)

---

**From:** IHS CERA Alert [mailto:myresearch-alert@ihscera.com]  
**Sent:** Thursday, January 31, 2013 12:47 PM  
**To:** Mike Thompson  
**Subject:** IHS CERA: US Steam Coal Market Update - February 2013 - IHS CERA Data Tables and Figures

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For assistance, please send an e-mail to CustomerCare@ihs.com.



Thursday, 31 Jan 2013  
**E-mail Notification**

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IHS CERA: [www.ihscera.com](http://www.ihscera.com)

**US Steam Coal Market Update, February 2013**      Turn off this alert

**US STEAM COAL MARKET UPDATE, FEBRUARY 2013**

*This market update provides IHS CERA's five-year outlook for US steam coal spot prices. The outlook is informed by coal market fundamentals such as demand, supply, inventories at power plants, and mining costs, as well as by a variety of policy drivers that could have an impact on the fundamentals. Also included in the update are historical US and international steam coal spot market prices.*

*IHS CERA expects power sector demand for coal to recover by 10% in 2013, driven primarily by higher gas prices; Powder River Basin—*

**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**

*Illinois Basin-, and Northern Appalachian-fired generation will outcompete natural gas-fired generation by year-end. However, inventories are currently high, and it will take at least until midyear for them to return to longer-term averages. Prices are currently close to cost, and we see no upside for prices at least until then. Once stockpiles have returned to normal levels, coal markets will be more vulnerable to price spikes from supply-demand events. But with generation declining and exports off from 2012 volumes, prices will remain close to cost-of-production levels for the next few years.*

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---

**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:41 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (4)  
**Attachments:** 20130207 - Cinergy Price History - BREC.XLSX

---

**From:** Perry, Mike [<mailto:Mike.Perry@ihs.com>]  
**Sent:** Thursday, February 07, 2013 5:56 PM  
**To:** Mike Thompson  
**Subject:** Cin-Hub price history

Dear Mike,

Good news, my colleague looked into it and we are cleared to redistribute this MW Daily price strip for Cin-Hub. All we have on hand is back through 2001, but that is pretty close to what you were looking for. Please let me know if there is anything else you need and if there is anything I can do to help coordinate your renewal at the end of the month.

Best regards,

Mike Perry  
Sr. Account Manager  
Energy Insight



15 Inverness Way E.  
Englewood, CO 80112  
[www.ihs.com](http://www.ihs.com)

Phone: +1 303 397 2678  
Cell: +1 720 202 9932  
Fax: +1 303 858 6706  
[mike.perry@ihs.com](mailto:mike.perry@ihs.com)

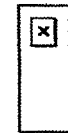
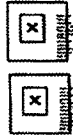
**IHS CERAWEEK 2013**  
March 4-8, Houston, Texas  
[www.ceraweek.com](http://www.ceraweek.com)

**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**

**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:41 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (5)

**From:** IHS CERA Alert [mailto:myresearch-alert@ihscera.com]  
**Sent:** Friday, February 08, 2013 3:22 PM  
**To:** Mike Thompson  
**Subject:** IHS CERA: North American Gas and Power Scenarios Transmission Development Assumptions, February 2013 - IHS CERA Data Tables

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Friday, 8 Feb 2013

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**North American Scenarios Transmission Development Assumptions**      Turn off this alert

***NORTH AMERICAN GAS AND POWER SCENARIOS TRANSMISSION DEVELOPMENT ASSUMPTIONS, FEBRUARY 2013***

*This IHS CERA 2012 transmission development assumptions report assesses major transmission projects that are considered in each of the scenarios. These projects have a significant impact on enhancement or development of local and/or regional reliability, system economy, and renewable resources, and support the scenarios' generation expansion, regulatory environment, and technology advancement assumptions.*

**Big Rivers Electric Corporation - Case No. 2013-00199**  
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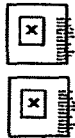
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**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:42 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (6)

---

**From:** IHS CERA Alert [mailto:myresearch-alert@ihscera.com]  
**Sent:** Monday, March 18, 2013 2:12 PM  
**To:** Mike Thompson  
**Subject:** IHS CERA: North American New Coal Power Capacity Outlook to 2020 - IHS CERA Data Tables

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Monday, 18 Mar 2013

## E-mail Notification

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IHS CERA: [www.ihscera.com](http://www.ihscera.com)

**North American New Coal Power Capacity Outlook**      Turn off this alert

***NORTH AMERICAN NEW COAL POWER CAPACITY OUTLOOK TO 2020, MARCH 2013***

*IHS CERA's outlook for new coal-fired power capacity in North America is available to clients of IHS CERA's North American Power and North American Gas and Power Scenarios services.*

*As of 18 March 2013, a total of 1.4 gigawatts (GW) of coal capacity is under construction or ready for commercial operation, and 0.2 GW is under development. Although more coal power projects are in various stages of development, we do not expect them to enter service by*

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**Big Rivers Electric Corporation - Case No. 2013-00199**  
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2020.

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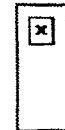


Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:42 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (7)

**From:** IHS CERA Alert [mailto:myresearch-alert@ihscera.com]  
**Sent:** Monday, March 18, 2013 2:12 PM  
**To:** Mike Thompson  
**Subject:** IHS CERA: Announced US Coal-fired Power Plant Retirements: Update - IHS CERA Data Tables

-----PLEASE DO NOT REPLY TO THIS AUTOMATED MESSAGE-----  
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Monday, 18 Mar 2013  
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**Announced US Coal-Fired Power Plant Retirements**      Turn off this alert

**ANNOUNCED US COAL-FIRED POWER PLANT RETIREMENTS: MARCH 2013 UPDATE**

*This IHS CERA database covers announced US coal-fired power plant retirements from 2011 to 2020. It includes formal retirements that have been completed, ordered, or approved, as well as retirements that have filed for approval or are projected in the owner's Integrated Resource Plan. The retirements are based on company decisions, state actions, or US Environmental Protection Agency settlements.*

*Announcements for unit idling, standby, or operation cuts are not included. This database does not necessarily reflect IHS CERA's*

Case No. 2013-00199, Attachment for Response to KIUC 1-90  
Witness: Robert W. Berry, Page 32 of 53

**Big Rivers Electric Corporation - Case No. 2013-00199**  
**Attachment for Response to KIUC 1-90**

*planning scenario outlook for future coal-fired power plant retirements.*

*As of 18 March 2013, 34 gigawatts (GW) (11% of the fleet) have retired or are committed to retiring by 2020. Another 13 GW (4% of the fleet) have been proposed to retire by 2020. The PJM and South and SPP regions have the majority of the announced retirements, with 20 GW and 16 GW, respectively.*

*This is updated in tandem with our North American Power Market Fundamentals reports.*

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**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:44 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (12)

---

**From:** Taylor, Kyle [mailto:Kyle.Taylor@ihs.com]  
**Sent:** Thursday, June 13, 2013 12:10 PM  
**To:** Mike Thompson  
**Cc:** Perry, Mike  
**Subject:** RE: IHS CERA Membership Renewal

Mike,

Thank you for your email and for your assistance with this matter. Please accept this email as confirmation that IHS has received and accepted your notice of non-renewal for your 2014 membership to the IHS CERA North American Gas and Power Scenarios service.

We understand that you will not continue with the service beyond this term but we would very much like to work with you and your colleagues while you are still members to provide you with any support that we can. We feel that our services can provide you and your colleagues with great value and hope to have the opportunity to work with you though next February. If we can be of assistance in any way please let me know.

Best regards,

Kyle Taylor  
Senior Director, Business Development  
Energy Insight



11811 Upham Street  
Suite B-3  
Broomfield, CO 80020  
[www.ihs.com](http://www.ihs.com)

Phone: +1 303 466 3040  
Cell: +1 303 775 2754  
Fax: +1 617 866 5901  
[kyle.taylor@ihs.com](mailto:kyle.taylor@ihs.com)

**If you require immediate assistance please contact your regional IHS Customer Care team:**

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European, African and Middle East Region: +44 (0) 1344 328 300 [Customer.Support@ihs.com](mailto:Customer.Support@ihs.com)

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**From:** Mike Thompson [mailto:Mike.Thompson@bigrivers.com]  
**Sent:** Thursday, June 13, 2013 7:46 AM  
**To:** Taylor, Kyle  
**Subject:** RE: IHS CERA Membership Renewal

Kyle,  
I have routed the attached 2013-2014 subscription invoice in our system for payment.  
The Correct Big Rivers Electric Corp address is:  
PO Box 24  
Henderson, KY 42419

Please consider this as notification as described in Section 3.2 of the subscription/services agreement between IHS and Big Rivers, that Big Rivers **WILL NOT** be renewing our subscription beyond February-2014.  
Please notify me immediately if this is not clear enough or if you need anything further to confirm cancellation.

Mike Thompson  
Mngr Power Supply & Market Operations  
Big Rivers Electric Corp  
(270)844-6164

---

**From:** Taylor, Kyle [mailto:Kyle.Taylor@ihs.com]  
**Sent:** Wednesday, June 05, 2013 12:51 PM  
**To:** Mike Thompson  
**Subject:** IHS CERA Membership Renewal

Mike,

Thank you for your time during our recent call. I am sorry for the confusion on your renewal and hope that we can work with you and your colleagues over the remaining months of your term to help ensure that you receive value for your membership. If I can schedule a call with you and Mark Griffith who leads our North American Scenarios team please let me know. I know that your account manager Mike Perry was able to provide you with price strips for Cin-Hub and in February and we would be happy to help with any other needs that you have.

As we discussed I am attaching a copy of your invoice. It looks like the mailing was returned to us so please let me know if I can update your address. As we discussed the renewal process requires at least a 30 day notice of cancellation in advance of your renewal date. If you would like to send notification in relation to your renewal at the end of your current term via email I will respond with confirmation.

**Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90**

Make sure that you were aware of the recent series of 11 webcasts that we did for our members. We presented a lot of very valuable information and received very good feedback from our membership. The details and links for each session are below and I would encourage you and your colleagues to take advantage of these sessions. I have also attached this information in a PowerPoint to make it easy to forward.

Thank you for those that were able to participate in our Member Webcast series. For those that were not able to join, below you will find playback links for each of the 11 webcasts focused on key topical and regional issues facing North American energy markets. We welcome any feedback or suggestions for future webcast topics. For questions or comments please email Will Dailey at Will.Dailey@ihs.com.

**Member Webcast Recordings**

To listen to recordings of our webcasts, please follow the links below:

**Regional Gas and Power Webcasts**

**Texas Gas and Power Market Outlook: Power Market Tightness Amid the Natural Gas Boom**

**Northeast Gas and Power Market Outlook: Supply Seasonality**

**West Gas and Power Market Outlook: Natural Gas Fills in the Gaps**

**Southeast Gas and Power Market Outlook: Negotiating Constraints**

**Mid-Continent Gas and Power Market Outlook**

**Mid-Atlantic/PJM Gas and Power Market Outlook**

**Gas and Coal Supply and The Potential For Exports**

**Webcasts on Key Energy Topics**

**State of the North American Power Business: Pressure From All Sides**

**North American Natural Gas: The Shale Boom Evolves**

**North American Economy and Energy Demand: Ready to Take Off?**

**North American Energy: A Revolutionary Decade**

*(You will be prompted to login with your email address. Once you have done so the webcast will start)*

**Big Rivers Electric Corporation - Case No. 2013-00199**  
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*automatically)*

If I can be of assistance in any way please let me know. I hope to speak with you again soon.

Best regards,

Kyle Taylor  
Senior Director, Business Development  
Energy Insight



11811 Upham Street  
Suite B-3  
Broomfield, CO 80020  
[www.ihs.com](http://www.ihs.com)

Phone: +1 303 466 3040  
Cell: +1 303 775 2754  
Fax: +1 617 866 5901  
[kyle.taylor@ihs.com](mailto:kyle.taylor@ihs.com)

**If you require immediate assistance please contact your regional IHS Customer Care team:**  
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European, African and Middle East Region: +44 (0) 1344 328 300 [Customer.Support@ihs.com](mailto:Customer.Support@ihs.com)

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Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

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**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:46 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (15)  
**Attachments:** NASC\_GRD\_Summary\_SpringWebTables.xlsx

---

**From:** Madzharova, Petya [mailto:Petya.Madzharova@ihs.com]  
**Sent:** Tuesday, June 18, 2013 2:01 PM  
**To:** Mike Thompson  
**Cc:** Burke, Stephen  
**Subject:** FW: IHS CERA price curves (BREC).

Mike,

You can find our long-term projections for Indiana Hub prices and MISO capacity prices in our NASC Global Redesign tables - Tables 30-34. I've attached our most recent Spring 2013 update.

These tables will actually be posted on our website tonight, but I'm emailing them to you in advance. You'll be able to find them here, accompanied by our gas and environmental outlooks as well:

<http://myresearch.ihscera.com/servlet/cats?serviceID=46985&pageContent=homePage&group=home%3B1&documentID=2408319>

Best regards,  
Petya

---

**From:** Mike Thompson [mailto:Mike.Thompson@bigrivers.com]  
**Sent:** Tuesday, June 18, 2013 2:12 PM  
**To:** Burke, Stephen  
**Subject:** FW: IHS CERA price curves (BREC).

---

**From:** Mike Thompson  
**Sent:** Tuesday, June 18, 2013 1:03 PM  
**To:** 'Taylor, Kyle'  
**Subject:** RE: IHS CERA Membership Renewal

Big Rivers Electric Corporation - Case No. 2013-00199  
Attachment for Response to KIUC 1-90

Who would I need to talk to at IHS to get recent 15-year forecasts of:

1. MISO/IN Hub energy prices (monthly ATC \$/MWhr)?
2. MISO capacity market prices (\$/MW-month)?

Thanks,  
Mike Thompson  
Mngr Power Supply & Market Operations  
Big Rivers Electric Corp  
(270)844-6164  
(270)577-2271 cell

---

**From:** Taylor, Kyle [mailto:Kyle.Taylor@ihs.com]  
**Sent:** Wednesday, June 05, 2013 12:51 PM  
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**Subject:** IHS CERA Membership Renewal

Mike,

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**Big Rivers Electric Corporation - Case No. 2013-00199  
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**Member Webcast Recordings**

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**Northeast Gas and Power Market Outlook: Supply Seasonality**

**West Gas and Power Market Outlook: Natural Gas Fills in the Gaps**

**Southeast Gas and Power Market Outlook: Negotiating Constraints**

**Mid-Continent Gas and Power Market Outlook**

**Mid-Atlantic/PJM Gas and Power Market Outlook**

**Gas and Coal Supply and The Potential For Exports**

**Webcasts on Key Energy Topics**

**State of the North American Power Business: Pressure From All Sides**

**North American Natural Gas: The Shale Boom Evolves**

**North American Economy and Energy Demand: Ready to Take Off?**

**North American Energy: A Revolutionary Decade**

*(You will be prompted to login with your email address. Once you have done so the webcast will start automatically)*

If I can be of assistance in any way please let me know. I hope to speak with you again soon.

Best regards,

Kyle Taylor  
Senior Director, Business Development  
Energy Insight



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**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:48 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (18)

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**From:** IHS CERA Alert [mailto:myresearch-alert@ihscera.com]  
**Sent:** Monday, June 24, 2013 4:08 PM  
**To:** Mike Thompson  
**Subject:** IHS CERA: The Future of Natural Gas - IHS CERA Special Report

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Monday, 24 Jun 2013

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**The Future of Global Gas**      Turn off this alert

***THE FUTURE OF NATURAL GAS***

*This Special Report provided the basis for the "Spotlight" speech that Dr. Yergin presented at the LNG 17 Conference in Houston on 17 April 2013.*

*This is an era in which a new map of global gas is being drawn. Participants in the natural gas industry around the world are all involved in*

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*this process in some fashion. New landmarks are appearing that will challenge market dynamics, technology, and our thinking.*

- ***The natural gas industry will grow more strongly than is generally expected today. The driver of gas market growth will be the three new sources of supply—unconventional gas, deepwater discoveries, and gas associated with tight oil—supplementing traditional sources.***
- ***Demand growth will come most notably in electric power. But there will also be a growing role for natural gas in long-distance trucks and shipping.***
- ***The United States will establish a new price benchmark for gas around the world against which traditionally priced gas will have to compete. This does not mean that everyone will adopt the same pricing system. The oil-indexed system will continue in place, but it will begin to coexist with a second pricing system.***
- ***Four conceptually distinct futures for natural gas provide a framework for identifying the uncertainties and risks and delineate the new map of global gas.***

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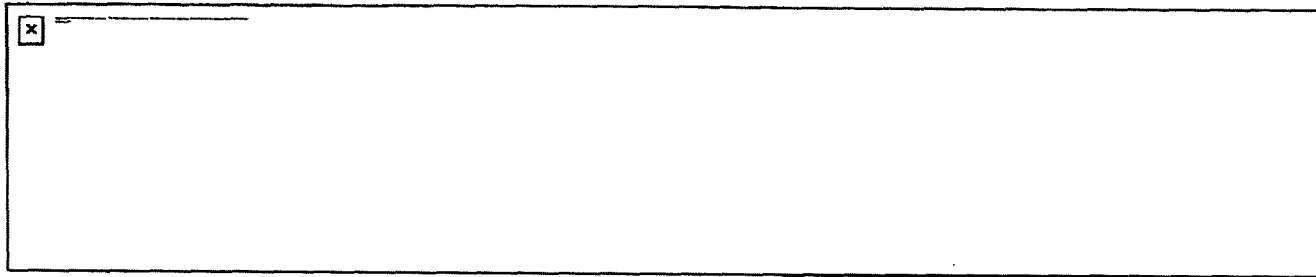
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**From:** Mike Thompson  
**Sent:** Thursday, August 22, 2013 10:48 AM  
**To:** Lindsay Barron  
**Subject:** FW: IHS email (19)

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**From:** IHS Inc. [<mailto:ihs@info.ihs.com>]  
**Sent:** Tuesday, June 25, 2013 2:01 PM  
**To:** Mike Thompson  
**Subject:** Program topics and agenda announced for the IHS Forum in Houston

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We are pleased to announce the preliminary **agenda** for the IHS Forum *Industry and Energy Transformation in the Americas: Implications for Global Strategies*, to be held on September 17–19, in Houston, Texas. The Forum will bring together delegates from related industries to gain insight, share expertise, and learn from IHS experts and industry thought leaders. The program sessions will explore timely issues with depth and breadth, making crucial connections across sectors.

Discussion topics include:

- Petrochemicals Resurgence in the Gulf of Mexico
- Operational Excellence and Sustainability—Driving Superior Returns
- Global Economic Outlook
- North American Crude Oil Market
- Manufacturing Renaissance in the United States
- Renewable Opportunities in Emerging Markets
- North American Ports and Shipping Lanes
- Capacity Mechanisms in the North American Power Market

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- American Gas Demand and Market Outlook
- Construction Outlooks for US and Canada

To learn more about the IHS Forum and to register please visit: [IHS.com/Forum](http://IHS.com/Forum).

The unique format of the IHS Forum provides delegates with an enhanced networking experience and the opportunity to hear from senior officials, thought leaders, and industry experts.

We look forward to seeing you in Houston.

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**From:** IHS Energy Insight <response2@ihs.com>  
**Sent:** Thursday, May 23, 2013 7:32 AM  
**To:** Michael Mattox  
**Subject:** Member Webcast Series – Regional Gas and Power Outlooks

To view this email as a web page, go [here](#).



We are pleased to provide you with updated information on the IHS Energy Insight Member Webcast series. Our May webcasts focus on regional issues in gas, coal, and renewable energy markets in North America. Below you will find playback links for our recent webcasts as well as registration links for the two upcoming webcasts on the Northeast and Texas. We thank you for your participation and welcome any feedback or questions you may have.

#### Latest Member Webcast Recordings

To listen to recordings of our latest webcasts, please follow the links below:

**West Gas and Power Market Outlook: Natural Gas Fills in the Gaps**

**Southeast Gas and Power Market Outlook: Negotiating Constraints**

**Renewables Power On in Emerging Markets**

**Mid-Continent Gas and Power Market Outlook**

**Mid-Atlantic/PJM Gas and Power Market Outlook**

**Gas and Coal Supply and The Potential For Exports**

**State of the North American Power Business: Pressure From All Sides**

**North American Natural Gas: The Shale Boom Evolves**

**North American Economy and Energy Demand: Ready to Take Off?**

**North American Energy: A Revolutionary Decade**

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automatically)

To register for our upcoming webcasts follow the links below:

**Northeast Gas and Power Market Outlook: Supply Seasonality** - IHS experts will provide our latest outlook for power and natural gas across the northeast markets of New England, New York, Ontario, Quebec and the Maritimes. We will discuss the future of power demand in the face of aggressive efficiency targets, natural gas supply and efforts to remedy New England's natural gas infrastructure challenge, revisions to the Regional Greenhouse Gas Initiative and the future price path for natural gas and power in 2013 and beyond.

Date: Thursday May 23, 2013 at 2:00 PM US EDT  
Speakers: Douglas Giuffre, Matthew Piatek, Patricia DiOrio, and Meg McIntosh  
Follow this link to register for this webcast

**Texas Gas and Power Market Outlook: Power Market Tightness Amid the Natural Gas Boom** - The state of Texas is, at once, grappling with upcoming power market tightness and enjoying the economic spoils of the unconventional natural gas production boom. As the power market prepares for the summer peak season, several longer-term questions emerge. What is the longer-term natural gas and power demand trajectory? Will ERCOT move to a capacity market? What will LNG exports mean to the region? How will natural gas production growth in the Eagle Ford and Permian Basin impact natural gas and power markets? What lies ahead for power, natural gas, coal, and renewables in 2013 and beyond?

Date: Thursday May 30, 2013 at 2:00 PM US EDT  
Speakers: Mike Pickens, Sam Andrus, James Stevenson, and Matt DaPrato  
Follow this link to register for this webcast

**How to Participate**

To register for each webcast follow the links above. All webcasts will offer question and answer opportunities.

We look forward to your participation and welcome any feedback you may have or topics you would like to see covered. Feel free to contact Will Dailey (will.dailey@ihs.com, 303.926.6706) with questions or comments.

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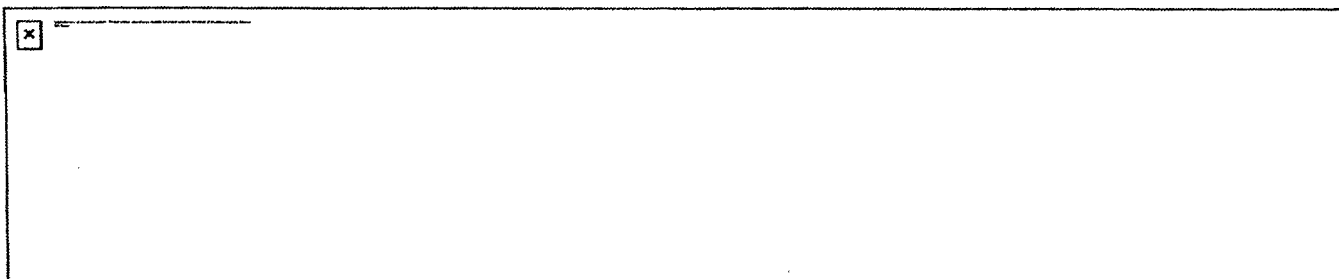
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**From:** IHS Inc. <ihs@info.ihs.com>  
**Sent:** Tuesday, July 30, 2013 12:32 PM  
**To:** Michael Mattox  
**Subject:** New energy sessions added to the IHS Forum in Houston

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There is an increased focus on competitiveness in the global economic recovery. The evolving shale industry in North America is creating a surplus of byproduct natural gas liquids. Emerging trends in capacity payment mechanisms are impacting power business models. Coal-fired generation in the United States is at a crossroads. The continuing geopolitical turmoil across the Middle East and North Africa is affecting global oil prices. These are just some of the key issues we will address at the [IHS Forum](#) in Houston this September.

**Register now to attend the IHS Forum.** **Learn more about the IHS Forum.**

This special event connects ideas, insight, and expertise on the core issues shaping global markets. IHS experts and guest speakers will explore the theme of *Industry and Energy Transformation in the Americas: Implications for Global Strategies* as part of a robust agenda.

**Key discussion topics include:**

- Going strong: North American unconventional plays and players
- Global LNG outlook
- US tight oil supply and potential
- North American LNG exports in a global market
- Increasing focus on competitiveness in the global economic recovery
- Opportunities for global renewable growth: Where and what?
- Refining and trade in the Americas
- Growing water handling costs and the evolving regulatory landscape
- Trends in carbon policy globally—Role reversal?

**Big Rivers Electric Corporation - Case No. 2013-00199**  
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...ing money problem in NA power markets

We hope you [join us](#) in Houston on September 17th–19th to take advantage of diverse content in these interactive sessions, increased access to IHS experts, and enhanced networking opportunities.

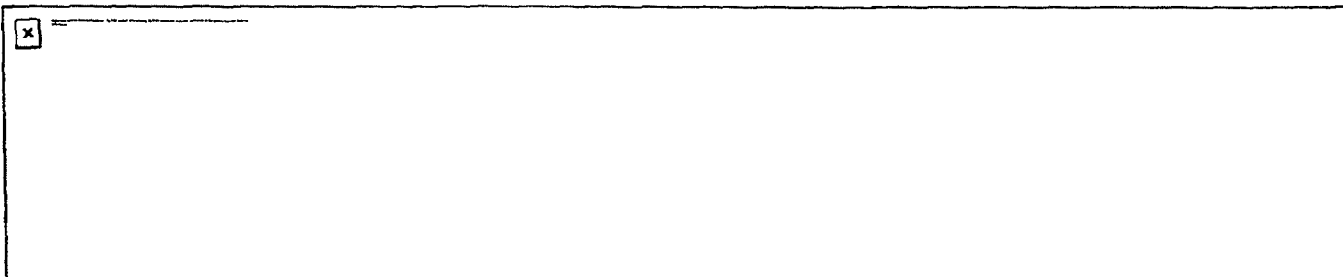
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**From:** IHS Inc. <ihs@info.ihs.com>  
**Sent:** Thursday, June 13, 2013 10:44 AM  
**To:** Michael Mattox  
**Subject:** Save the date for the IHS Forum in Houston, September 17-19, 2013

If you have trouble viewing this email, [read the online version](#).



We invite you to join us for the IHS Forum, September 17–19, 2013 in Houston, Texas.

Today's increasingly interconnected business world demands a broader understanding of adjacent industries and the forces at work in the global economy. IHS Forums bring together participants from a range of industries to gain insight, share expertise, and make new connections. The focus of the IHS Forum in Houston is *Industry and Energy Transformation in the Americas*. Together we will explore the risks and opportunities for the broader economy, energy policy, electric power, natural gas and crude oil, E&P activity, clean energy, chemicals, transportation, and construction outlooks.

In Houston, powerful keynotes and in-depth breakout sessions will cover topics including opportunities in global and regional energy industries, economic outlooks, and sector-specific challenges. You'll have the opportunity to learn from IHS experts and industry thought leaders, explore relevant issues with depth and breadth, and make crucial connections within and across industries.

The unique format of the IHS Forum provides delegates enhanced networking and the opportunity to hear from senior officials, thought leaders and industry experts.

To learn more about the IHS Forum and to reserve your place, please visit [IHS.com/Forum](http://IHS.com/Forum) and hear from IHS President & CEO Scott Key about the [IHS Forum experience](#).

We look forward to seeing you in Houston.

**Big Rivers Electric Corporation - Case No. 2013-00199**  
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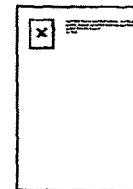


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**Sent:** Wednesday, June 05, 2013 12:13 PM  
**To:** Michael Mattox  
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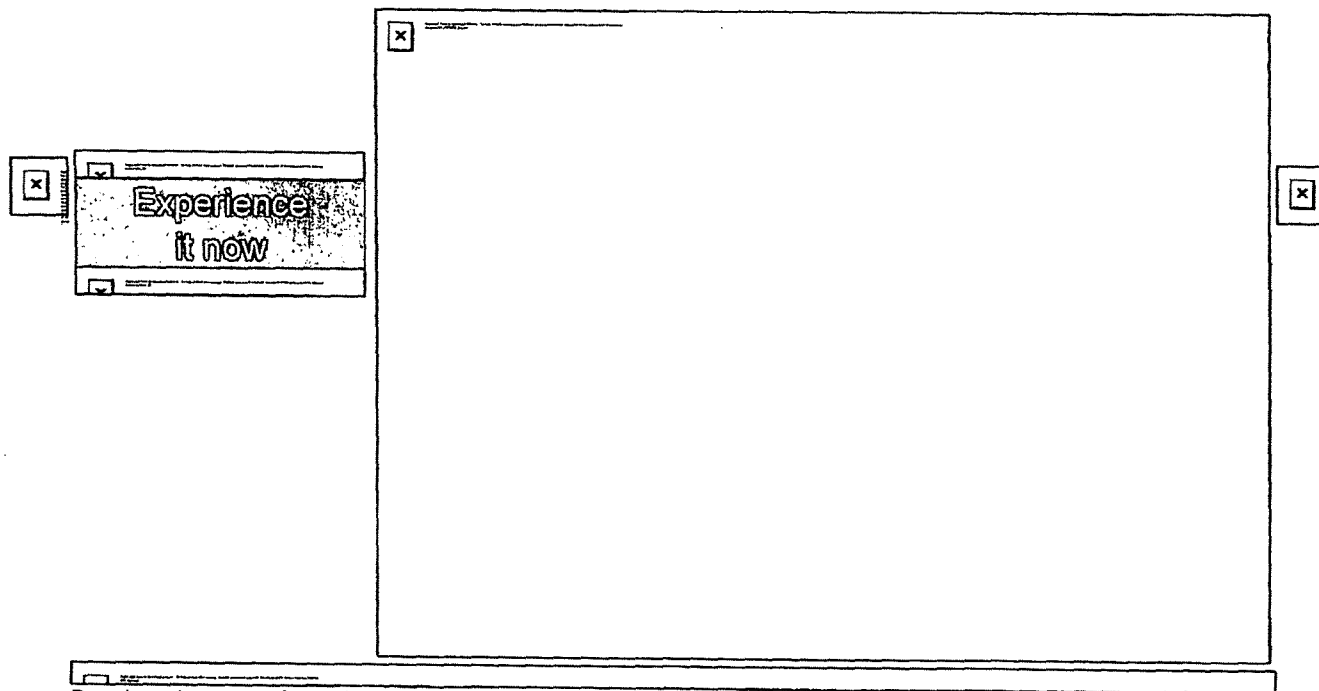
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**BIG RIVERS ELECTRIC CORPORATION**  
**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION**  
**FOR A GENERAL ADJUSTMENT IN RATES**  
**CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s**  
**Initial Request for Information**  
**dated August 19, 2013**

**September 3, 2013**

1 **Item 91)**     *Provide a copy of all correspondence and documents between BREC and*  
2 *Wood McKenzie since January 1, 2013.*

3

4 **Response)**    There has been no correspondence between Big Rivers and Wood McKenzie  
5 since January 1, 2013.

6

7 **Witness)**     Robert W. Berry

**BIG RIVERS ELECTRIC CORPORATION**

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION  
FOR A GENERAL ADJUSTMENT IN RATES  
CASE NO. 2013-00199**

**Response to the Kentucky Industrial Utility Customers, Inc.'s  
Initial Request for Information  
dated August 19, 2013**

**September 3, 2013**

1 **Item 92)** *Provide a copy of all correspondence and documents between BREC and*  
2 *GDS Associates, Inc. since January 1, 2013.*

3

4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and  
5 unduly burdensome. Big River also objects to this request on the grounds that it seeks  
6 information that is irrelevant and not likely to lead to the discovery of admissible evidence.

7 Notwithstanding these objections, but without waving them, please see the attached

8 correspondence provided electronically.

9

10 **Witness)** Robert W. Berry



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