



Your Touchstone Energy® Cooperative 

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

**ELECTRONIC EXAMINATION OF THE)
APPLICATION OF THE FUEL ADJUSTMENT)
CLAUSE OF BIG RIVERS ELECTRIC)
CORPORATION FROM)
MAY 1, 2017 THROUGH OCTOBER 31, 2017)**

**Case No.
2018-00023**

**Responses to Commission Staff's Request for Information
dated
February 16, 2018**

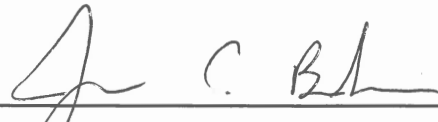
FILED: March 1, 2018

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2018-00023**

VERIFICATION

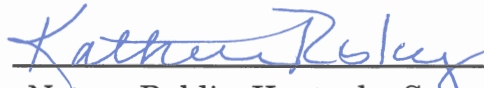
I, Jason C. Burden, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Jason C. Burden

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

124 SUBSCRIBED AND SWORN TO before me by Jason C. Burden on this the
day of March, 2018.



Notary Public, Kentucky State at Large

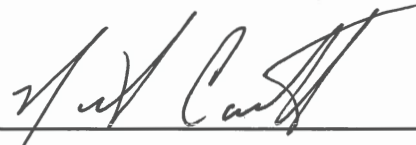
My Commission Expires 10-31-2020

BIG RIVERS ELECTRIC CORPORATION

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VERIFICATION

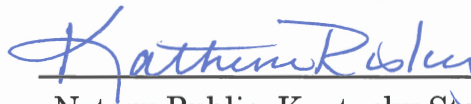
I, Nicholas R. (Nick) Castlen, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Nicholas R. (Nick) Castlen

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Nicholas R. (Nick) Castlen on
this the 1st day of March, 2018.



Notary Public, Kentucky State at Large


My Commission Expires 10-31-2020

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
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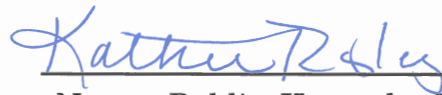
I, Ronald D. (Ron) Gregory, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Ronald D. (Ron) Gregory

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Ronald D. (Ron) Gregory on
this the 14 day of March, 2018.



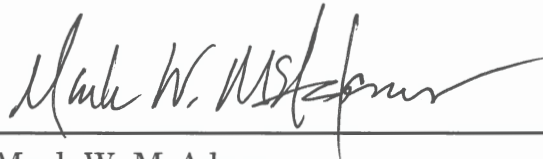
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BIG RIVERS ELECTRIC CORPORATION

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VERIFICATION

I, Mark W. McAdams, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Mark W. McAdams

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

1st SUBSCRIBED AND SWORN TO before me by Mark W. McAdams on this the
day of March, 2018.



Notary Public, Kentucky State at Large


My Commission Expires 10-31-2020

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
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VERIFICATION

I, Murray W. (Wayne) O'Bryan, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.


Murray W. (Wayne) O'Bryan

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Murray W. (Wayne) O'Bryan
on this the 1st day of March, 2018.


Notary Public, Kentucky State at Large
My Commission Expires 10-31-2020

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
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March 1, 2018

1 **Item 1)** *For the period under review, provide the amount of coal*
2 *purchased in tons, and the percentage of purchases that were spot versus*
3 *contract.*

4

5 **Response)** Please see the schedules below.

6

For the Period from May 1, 2017, through October 31, 2017

Purchase Vendor	Fuel Type	Purchase Tonnage	Contract Type
Alliance (BRE-15-010)	Coal	302,286.13	Contract
Foresight Coal (BRE-15-005)	Coal	130,793.68	Contract
KenAmerican Resources (BRE-15-006)	Coal	203,790.63	Contract
Peabody Coal Sales (BRE-15-018)	Coal	276,925.00	Contract
Rhino (BRE-15-009)	Coal	222,453.20	Contract
Oxbow Carbon (BRE-17-001)	Pet Coke	4,557.33	Spot
TCP PetCoke (BRE-17-002)	Pet Coke	6,204.16	Spot
Total Tonnage		<u>1,147,010.13</u>	

For the Period from May 1, 2017, through October 31, 2017

Percentage Spot Purchase Tons	0.94 %
Percentage Contract Purchase Tons	<u>99.06 %</u>
Percentage Total Purchase Tons	<u>100.00 %</u>

7

8

9 **Witness)** Mark W. McAdams

10

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
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1 **Item 2)** *For the period under review, list each coal purchase made*
2 *under a long-term contract (one year or greater). For each purchase, list:*

3

4

a. Contract or purchase order number;

5

b. The supplier's name;

6

*c. The location(s) of production facilities from which the
coal is sourced;*

7

8

d. The method of delivery, (i.e., barge, truck, rail, other);

9

e. The actual quantity received during the review period;

10

f. The tonnage requirement for the review period; and

11

g. Current price paid per ton.

12

13 **Response)** Please see the attached schedule

14

15

16 **Witness)** Mark W. McAdams

17

Big Rivers Electric Corporation
Case No. 2018-00023
Long-Term Fuel Contract Information

Foresight – BRE-15-005

A. CONTRACT NUMBER:	BRE-15-005		
B. SUPPLIER'S NAME / ADDRESS:	Foresight Coal Sales, LLC 211 North Broadway, Suite 2600 St. Louis, MO 63102		
C. PRODUCTION FACILITY:	Deer Run and/or Shay No. 1 in Montgomery and Macoupin, Illinois		
D. METHOD OF DELIVERY:	Barge		
E. ACTUAL TONNAGE:	2015 –	200,318	Tons
	2016 –	239,969	Tons
	2017 –	202,409	Tons (<i>through October</i>)
F. ANNUAL TONNAGE REQUIREMENTS:	2015 –	200,000	Tons
	2016 –	240,000	Tons
	2017 –	240,000	Tons
	2018 –	240,000	Tons
	2019 –	240,000	Tons
PERCENT OF ANNUAL REQUIREMENTS:	2015 –	100.16 %	
	2016 –	99.99 %	
	2017 –	84.34 %	<i>(through October)</i>
G. CURRENT PRICE (<i>Base</i>):	2015 –	\$ 34.0006	per Ton
	2016 –	\$ 36.2491	per Ton
	2017 –	\$ 38.4998	per Ton
	2018 –	\$ 40.5497	per Ton
	2019 –	\$ 42.3490	per Ton
CURRENT PRICE (<i>Contract</i>):	2015 –	\$ 34.0006	per Ton
	2016 –	\$ 36.2491	per Ton
	2017 –	\$ 38.4998	per Ton

**Big Rivers Electric Corporation
Case No. 2018-00023
Long-Term Fuel Contract Information**

KenAmerican Resources – BRE-15-006

A. CONTRACT NUMBER:	BRE-15-006		
B. SUPPLIER'S NAME/ADDRESS:	KenAmerican Resources, Inc. 46226 National Road St. Clairsville, OH 43950		
C. PRODUCTION FACILITY:	Paradise #9 Mine Muhlenberg County, Kentucky		
D. METHOD OF DELIVERY:	Truck		
E. ACTUAL TONNAGE:	2015	–	300,077 Tons
	2016	–	500,015 Tons
	2017	–	389,744 Tons <i>(through October)</i>
F. ANNUAL TONNAGE REQUIREMENTS:	2015	–	300,000 Tons
	2016	–	500,000 Tons
	2017	–	500,000 Tons
	2018	–	400,000 Tons
	2019	–	400,000 Tons
PERCENT OF ANNUAL REQUIREMENTS:	2015	–	100.03 %
	2016	–	100.00 %
	2017	–	77.95 % <i>(through October)</i>
G. CURRENT PRICE (<i>Base</i>):	2015	–	\$ 49.2505 per Ton
	2016	–	\$ 50.5000 per Ton
	2017	–	\$ 51.7496 per Ton
	2018	–	\$ 53.0506 per Ton
	2019	–	\$ 54.4008 per Ton
CURRENT PRICE (<i>Contract</i>):	2015	–	\$ 49.2505 per Ton
	2016	–	\$ 50.5000 per Ton
	2017	–	\$ 51.7496 per Ton

Big Rivers Electric Corporation
Case No. 2018-00023
Long-Term Fuel Contract Information

Rhino Energy LLC and Pennyrile Energy LLC Coal Sales – BRE-15-009

A. CONTRACT NUMBER:	BRE-15- 009			
B. SUPPLIER’S NAME / ADDRESS:	Rhino Energy LLC/Pennyrile Energy, LLC. 424 Lewis Hargett Circle, Suite 250 Lexington, KY 40503			
C. PRODUCTION FACILITY:	Pennyrile Energy LLC Riveredge Mine McLean County, Kentucky			
D. METHOD OF DELIVERY:	Barge			
E. ACTUAL TONNAGE:	2015	–	105,260	Tons
	2016	–	350,004	Tons
	2017	–	416,192	Tons (<i>through October</i>)
F. ANNUAL TONNAGE REQUIREMENTS:	2015	–	105,000	Tons (<i>Start date for delivery 6-1-2015</i>)
	2016	–	350,000	Tons
	2017	–	450,000	Tons
	2018	–	150,000	Tons
PERCENT OF ANNUAL REQUIREMENTS:	2015	–	100.25 %	
	2016	–	100.00 %	(<i>through December</i>)
	2017	–	92.49 %	(<i>through October</i>)
G. CURRENT PRICE (<i>Base</i>):	Riveredge 2015	–	\$ 43.7494	per Ton
	Riveredge 2016	–	\$ 45.7498	per Ton
	Riveredge 2017	–	\$ 47.7500	per Ton
	Riveredge 2018	–	\$ 47.0826	per Ton
CURRENT PRICE (<i>Contract</i>):	Riveredge 2015	–	\$ 43.7494	per Ton
	Riveredge 2016	–	\$ 45.7498	per Ton
	Riveredge 2017	–	\$ 47.7500	per Ton

Big Rivers Electric Corporation
Case No. 2018-00023
Long-Term Fuel Contract Information

Alliance Coal, LLC – BRE-15-010

A. CONTRACT NUMBER: BRE-15-010

B. SUPPLIER'S NAME/ADDRESS: Alliance Coal, LLC
1717 South Boulder, Suite 400
Tulsa, OK 74119

C. PRODUCTION FACILITY: Hopkins Cty. Coal, LLC – Elk Creek Mine Facility
Sebree Mining, Onton No. 9 Mine Facility in
Webster County, Kentucky;
Warrior Coal LLC Mining Operations;
Webster Coal, LLC – Dotiki Mine Facility in
Webster County, Kentucky;
Riverview Coal, LLC – River View Mine Facility

D. METHOD OF DELIVERY: Truck and/or Barge

E. ACTUAL TONNAGE: 2015 – 0 Tons (*Option not exercised*)
2016 – 249,968 Tons
2017 – 489,942 Tons (*through October*)

F. ANNUAL TONNAGE REQUIREMENTS: 2015 – 75,000 Tons (*Option tons*)
2016 – 250,000 Tons
2017 – 575,000 Tons

PERCENT OF ANNUAL REQUIREMENTS: 2015 – 0.00 % (*Option not exercised*)
2016 – 99.99 %
2017 – 85.21 % (*through October*)

G. CURRENT PRICE (*Base*): Quality A (11,900 BTU/lb.) – Hopkins Elk Creek
2015 – \$ 53.2493 per Ton

Quality B (11,800 BTU/lb.) – Onton No. 9,
Warrior Coal, & Webster Coal
2015 – \$ 50.8061 per Ton
2016 – \$ 52.7649 per Ton
2017 – \$ 54.7733 per Ton

Quality C (11,500 BTU/lb.) – Onton No. 9 &
River View Coal
2015 – \$ 45.3491 per Ton
2016 – \$ 47.2006 per Ton
2017 – \$ 49.0498 per Ton

Quality D (11,250 BTU/lb.) – Onton No. 9
2015 – \$ 45.8000 per Ton
2016 – \$ 47.5505 per Ton
2017 – \$ 49.4000 per Ton

Big Rivers Electric Corporation
Case No. 2018-00023
Long-Term Fuel Contract Information

Alliance Coal, LLC – BRE-15-010 (continued)

CURRENT PRICE (<i>Base</i>): (<i>continued</i>)	<u>Quality E (11,000 BTU/lb.) – Onton No. 9</u>		
	2015	– \$ 44.0996	per Ton
	2016	– \$ 45.8002	per Ton
	2017	– \$ 47.5492	per Ton
CURRENT PRICE (<i>Contract</i>):	2015	– N/A	(<i>No option tons</i>)
	<u>Quality A (11,900 BTU/lb.) – Hopkins Elk Creek</u>		
	2016	– N/A	
	2017	– N/A	
	<u>Quality B (11,800 BTU/lb.) – Onton No. 9, Warrior Coal, & Webster Coal</u>		
	2016	– \$ 52.7649	per Ton
	2017	– \$ 54.7733	per Ton
	<u>Quality C (11,500 BTU/lb.) – Onton No. 9 & River View Coal</u>		
	2016	– \$ 47.2006	per Ton
	2017	– \$ 49.0498	per Ton
<u>Quality D (11,250 BTU/lb.) – Onton No. 9</u>			
2016	– \$ 47.5505	per Ton	
2017	– \$ 49.4000	per Ton	
<u>Quality E (11,000 BTU/lb.) – Onton No. 9</u>			
2016	– \$ 45.8002	per Ton	
2017	– \$ 47.5492	per Ton	

Big Rivers Electric Corporation
Case No. 2018-00023
Long-Term Fuel Contract Information

Peabody CoalSales – BRE-15-018

A. CONTRACT NUMBER: BRE-15- 018

B. SUPPLIER’S NAME/ADDRESS: Peabody COALSALES, LLC
701 Market Street
St. Louis, MO 63101

C. PRODUCTION FACILITY: Somerville and Wild Boar Mining Complex,
Surface Mining Operation,
Warrick and Gibson Counties, Indiana

D. METHOD OF DELIVERY: Barge

E. ACTUAL TONNAGE: 2016 – 350,001 Tons
 2017 – 426,258 Tons (*through October*)

F. ANNUAL TONNAGE 2016 – 350,000 Tons
REQUIREMENTS: 2017 – 525,000 Tons
 2018 – 625,000 Tons

PERCENT OF ANNUAL 2016 – 100.00 %
REQUIREMENTS: 2017 – 81.19 % (*through October*)

G. CURRENT PRICE (*Base*): 2016 – \$ 40.4998 per Ton
 2017 – \$ 40.4998 per Ton
 2018 – \$ 40.4998 per Ton

CURRENT PRICE (*Contract*): 2016 – \$ 40.4998 per Ton
 2017 – \$ 40.4998 per Ton

BIG RIVERS ELECTRIC CORPORATION

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**Response to Commission Staff's Request for Information
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March 1, 2018

1 **Item 3)**

2 a. *As of the last day of the review period, state the coal*
3 *inventory level in tons, and in number of days' supply.*

4 *Provide this information by generating station and in the*
5 *aggregate.*

6 b. *Describe the criteria used to determine number of days'*
7 *supply.*

8 c. *State the target coal inventory level for each generating*
9 *station, and for the total system.*

10 d. *If actual coal inventory exceeds the target inventory by ten*
11 *days' supply, state the reasons for the excess inventory.*

12 e.
13 (1) *State whether any significant changes in the current*
14 *coal inventory target are expected within the next 12*
15 *months.*

16 (2) *If so, state the expected change, and the reasons for*
17 *this change.*

18

19 **Response)**

20 a. As of October 31, 2017, Big Rivers' generating stations
21 individually and in the aggregate had the following inventory
22 levels and days' supply.

BIG RIVERS ELECTRIC CORPORATION

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March 1, 2018

1

Total System/Station	Inventory Level (Tons) ¹	Number of Days' Supply ²	Duration (In Days)	Preceding 6 Months Burn (In Tons)
Big Rivers Electric System	850,633.44	85	130	1,304,577.57
Reid Station ³	0.00	0	0	0.00
Station Two ⁴	206,310.25	262	100	78,796.41
Green Station ⁵	231,474.62	58	152	603,586.60
Coleman Station ⁶	0.00	0	0	0.00
Wilson Station ⁷	412,848.57	97	147	622,194.56

2

3

b. Number of Days' Supply =

$$\frac{\text{Current Inventory (Tons)}}{\text{Preceding 6 Months Burn (Tons)}} \times \text{Duration (In Days)}$$

4

5

c. Big Rivers Electric Corporation's Target Supply is the following range for each Station in days based on the projected annual fuel burn

6

7

**Big Rivers Electric Corporation
Coal Inventory Target Ranges**

Total System	30 – 60 Days
Reid Station	0 Days
Station Two	30 – 60 Days
Green	30 – 60 Days
Coleman	0 Days
Wilson	30 – 60 Days

8

9

d. The actual inventory for Station Two exceeds the target range by 202 days as a result of reduced demand for electricity and

10

BIG RIVERS ELECTRIC CORPORATION

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1 scheduled and unscheduled maintenance outages. At various
2 times during the period under review, the Station Two Units were
3 placed into Reserve shutdown due to market conditions, as it was
4 more economic for Station Two to purchase its power during those
5 times. Reserve shutdown (economic) hours totaled 1,737 hours
6 during the period under review. Station Two Unit 1 had a
7 Planned Outage which began on April 18, 2017, and ended June
8 3, 2017, resulting in 810 outage hours during the review period for
9 that outage. There were an additional 392 scheduled
10 maintenance hours for Station Two during the review period.
11 There were also unscheduled outages on Station Two Unit 1 and
12 Unit 2 during the review period totaling 1,092 hours.

13 Wilson Station exceeded its target range by 37 days due to
14 the impact of electricity market conditions and demand. Wilson
15 had unscheduled outages during the period under review of 646
16 hours, other scheduled outages of 34 hours, and reserve outages of
17 220 hours.

18 Big Rivers' Total System exceeded its target range by 25
19 days.

20 e.

21 (1) Yes.

22 (2) Big Rivers, as part of its continuing solid fuel procurement

BIG RIVERS ELECTRIC CORPORATION

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1 and inventory reduction plans, reduced its solid fuel
2 procurement to a minimum. Big Rivers did not enter into any
3 contractual agreement for delivery of coal for the remainder
4 of 2017. Since the prior FAC review,¹ Big Rivers has
5 experienced reduced generation demand hindering the pace
6 previously targeted for more rapid inventory reduction.
7 Nonetheless, by the end of 2017, Big Rivers reduced its
8 system inventory by 187,000 tons of coal. The Company
9 remains focused during the first quarter of 2018 on continued
10 inventory reductions at Station Two and Wilson generating
11 stations. Big Rivers anticipates being within its inventory
12 targets at Green and Wilson Stations during the first quarter
13 of 2018. Achieving inventory target will be later in 2018 for
14 Station Two units due to reduced generation plans. Market
15 conditions are, and will, continue to play a significant role in
16 the pace and overall quantity of inventory reduction in 2018.
17
18

¹ See *In The Matter Of: An Examination of the Application of the Fuel Adjustment Clause of Big Rivers Electric Corporation from November 1, 2016 through April 30, 2017* – Case No. 2017-00278.

BIG RIVERS ELECTRIC CORPORATION

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1

Footnotes to table in sub-part a. above -

- 1.- Green Station had a pet coke inventory of 4,537.80 tons as of October 31, 2017, and had a target blend of 18% with Green coal. Wilson Station had a pet coke inventory of 12,638.90 tons as of October 31, 2017, and had a target blend of 15% with Wilson coal.
- 2.- Number of days' supply is rounded to reflect whole days.
- 3.- Reid Station Unit 1 was placed in Inactive Reserve Status effective April 1, 2016. Change in the status of this unit is unknown at this time. The duration of generation was reduced to 0 days.
- 4.- Station Two Units 1 and 2 had 1,484 unscheduled and scheduled maintenance hours. Unit 1 had a Planned Outage that commenced on April 18 and continued through June 3, 2017, which resulted in 810 outage hours during the review period. Station Two Units 1 and 2 had 1,737 Reserve hours during the review period. All of these hours were equivalent to 84 days. The duration of generation was reduced to 100 days. Inventory is being reduced to meet the new target; however, due to existing inventory and contract coal, the reduction target will require possibly to the end of the third quarter in 2018.
- 5.- Green Station Units 1 and 2 had 378 unscheduled and scheduled maintenance hours and 1,139 Reserve hours during the period under review. These hours were equivalent to 32 days. The duration of generation was reduced to 152 days.
- 6.- Coleman Station Units 1, 2 and 3 were placed on Inactive Reserve Status on May 8, 2014. The duration of generation was reduced to 0 days. Change in the status of this unit is unknown at this time.
- 7.- Wilson Station had 680 scheduled and unscheduled maintenance hours and 220 reserve outage hours during the period under review. These hours were equivalent to 37 days. The duration of generation was reduced to 147 days.

2

3

4

Witnesses) Mark W. McAdams

5

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 4)** *List each written coal-supply solicitation issued during the*
2 *period under review.*

3

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

10 *b. For each solicitation, state the number of vendors to*
11 *whom the solicitation was sent, the number of vendors*
12 *who responded, and the selected vendor. Provide the bid*
13 *tabulation sheet or corresponding document that ranked*
14 *the proposals. (This document should identify all vendors*
15 *who made offers.) State the reasons for each selection.*
16 *For each lowest-cost bid not selected, explain why the bid*
17 *was not selected.*

18

19 **Response)**

20 BREC-18-01 (Spot and Term Solicitation)

21

a.

22

i. Date solicitation was issued: June 16, 2017.

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- 1 Date solicitation was returned: June 27, 2017.
- 2 ii. Type of solicitation: Spot 2017 and term (2018 – 2021) written
3 bid solicitation (web-based distribution).
- 4 iii. Quantities solicited: Spot up to 200,000 tons; Term – up to
5 500,000 tons per year.
- 6 iv. Quality of coal and pet coke solicited:
- 7 (a) BTU/lb.: 10,500 to 13,500;
- 8 (b) Ash (lbs/MMBTU): 0.74 to 14.29;
- 9 (c) Moisture (lbs/MMBTU): 8.89 to 11.90;
- 10 (d) Sulfur (lbs SO₂): 5.50 to 6.50 (coal); and
- 11 (e) Sulfur (lbs SO₂): up to 8.50 (petroleum coke).
- 12 v. Time period over which deliveries were requested:
- 13 (a) Spot solicitation: July 1 – December 31, 2017.
- 14 (b) Term solicitation: Years 2018 through 2021.
- 15 vi. Generating units for which the coal was intended include:
16 Green, Station Two, and Wilson.
- 17 b.
- 18 i. Number of vendors solicited: The coal solicitation was posted
19 to Big Rivers' web site for supplier review, print-out, and
20 written bid proposal submission. Big Rivers also notified coal
21 and petroleum coke newsletters and journals for industry
22 notification of the placement of the solicitation on the web site

BIG RIVERS ELECTRIC CORPORATION

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1 and referral to the web address for review and download. For
2 bid BREC-18-01 there were seventeen (17) page views and/or
3 request for copy of the bid document. Responding vendors: Ten
4 (10) vendors replied to the spot and term bid solicitation
5 (excluding no bid responses), to include twelve (12) bids that
6 contained twenty (20) offers of coal and/or petroleum coke.

- 7 ii. Selected vendors:
- 8 (a) *Spot fuel supply*: No spot fuel was selected pursuant to
9 this bid due to reduced generation levels and continued
10 focus on inventory reclamation (reduction).
- 11 (b) *Term fuel supply*: Three (3) term contract awards were
12 made pursuant to this bid solicitation, those being:
13 Alliance Coal; Rhino Energy; and Sun Energy.

14 iv. The bid tabulation spreadsheet is being provided under a
15 Petition for Confidential Treatment.

- 16 v. The rationale for each selection is as follows:
- 17 (a) *Selected spot coal vendors*: N/A.
- 18 (b) *Selected term coal vendors*: Three (3) term coal awards.

- 19 (1) Sun Energy (BRE-18-002) [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]

BIG RIVERS ELECTRIC CORPORATION

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[REDACTED]

(2) The second most competitive opportunity was provided by Alliance Coal, LLC / River View Coal, LLC (BRE-18-001) from its River View mining operation. [REDACTED]

[REDACTED]

BIG RIVERS ELECTRIC CORPORATION

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[REDACTED]

(3) Rhino Energy, LLC was the third award [REDACTED]

[REDACTED]

BIG RIVERS ELECTRIC CORPORATION

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[REDACTED]

BIG RIVERS ELECTRIC CORPORATION

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3 **Witness)** Mark W. McAdams

4

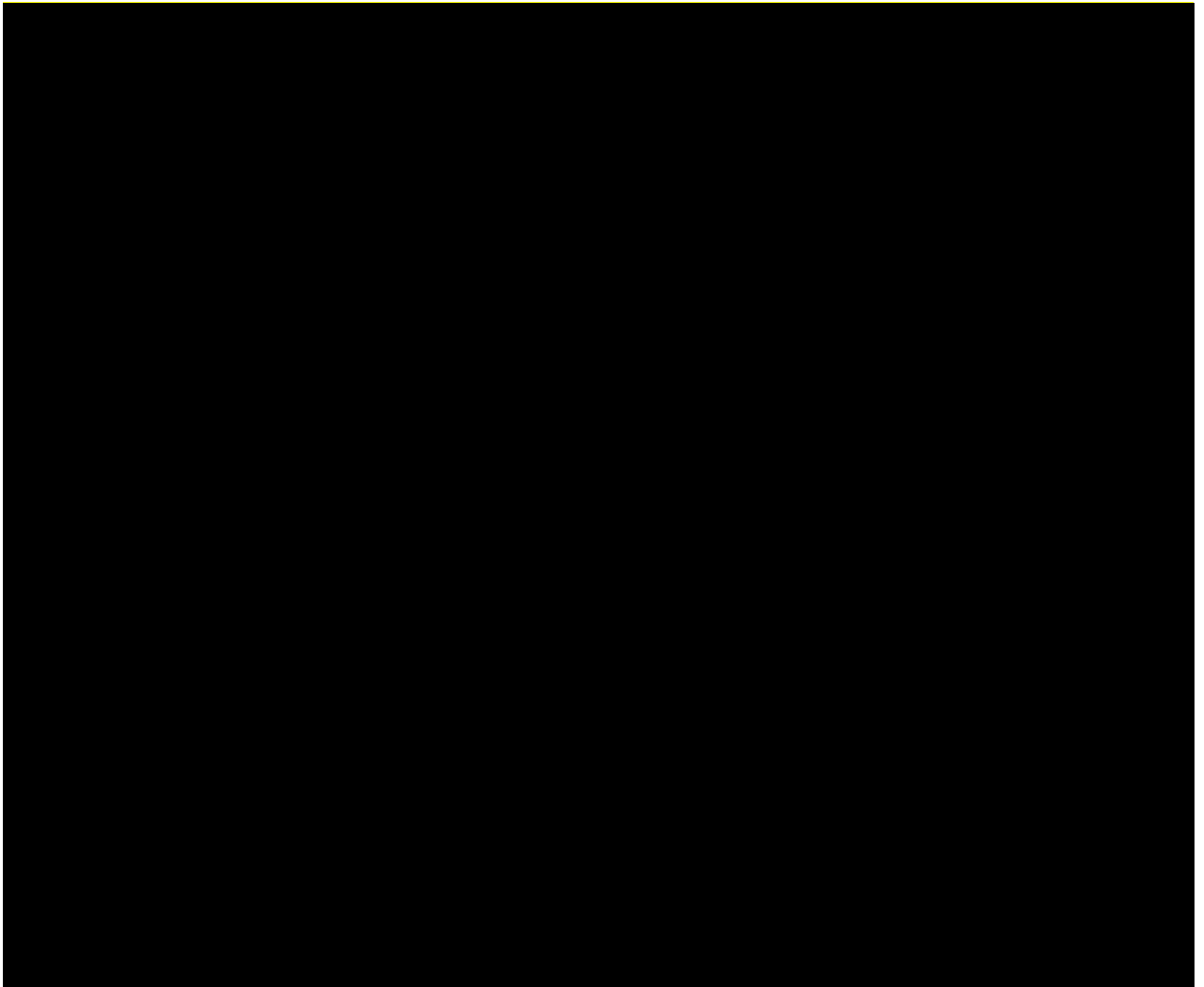
In the Matter of:

ELECTRONIC EXAMINATION OF THE)
APPLICATION OF THE FUEL ADJUSTMENT)
CLAUSE OF BIG RIVERS ELECTRIC) Case No. 2018-00023
CORPORATION FROM)
MAY 1, 2017 THROUGH OCTOBER 31, 2017)

CONFIDENTIAL RESPONSE

to Item 4.b.iv of the Commission Staff's Data Request
dated February 16, 2018
FILED: March 1, 2018

**INFORMATION SUBMITTED UNDER PETITION FOR CONFIDENTIAL
TREATMENT**



BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
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1 **Item 5)** *List each oral coal-supply solicitation issued during the*
2 *period under review.*

3

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

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

16

17 **Response)**

18 a. and b.

19 Big Rivers issued no oral coal supply solicitations during the
20 period under review.

21

22 **Witness)** Mark W. McAdams

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 6)** *For the period under review, list each vendor from whom*
2 *natural gas was purchased for generation and the quantities and the*
3 *nature of each purchase (i.e., spot or contract).*

4

5 **Response)** Please see the listing on the following page for vendors from whom
6 natural gas was purchased for generation and the quantity and nature of each
7 purchase from May 1, 2017, through October 31, 2017. Also on the following page
8 please see the percentage of purchases that were either spot versus contract for
9 the period under review in total.

10 Starting in July 2010, Big Rivers began purchasing natural gas under
11 a North American Energy Standard Board ("NAESB") base contract for sale and
12 purchase of natural gas. Actual purchases of gas are made using transaction
13 confirmations that are governed by the NAESB contract. Big Rivers also entered
14 into a contract with Texas Gas Transmission, LLC for the transportation and
15 storage and borrowing of gas to Big Rivers' delivery point, the Reid Combustion
16 Turbine. All of these contracts are on file with the Kentucky Public Service
17 Commission.

18

19

20

BIG RIVERS ELECTRIC CORPORATION

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1

For the Period from May 1, 2017, through October 31, 2017

Purchase Vendor	Fuel Type	MCF	Contract Type
CIMA Energy, LTD	Natural Gas	25,347	Spot

For the Period from May 1, 2017, through October 31, 2017

Percentage Contract	0.00 %
Percentage Spot	<u>100.00 %</u>
Percentage Total	<u>100.00 %</u>

2

3

4 **Witness)** Wayne O'Bryan

5

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 7)** *For the period under review, state if there were any instances*
2 *in which a natural gas generating unit could not be operated when it*
3 *otherwise would have run, due to pipeline constraints or natural gas*
4 *being unavailable.*

5

6 **Response)** There were no instances during this review period that Big Rivers'
7 gas generating unit could not be operated when it otherwise would have run, due
8 to pipeline constraints or natural gas being unavailable.

9

10

11 **Witness)** Wayne O'Bryan

12

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 8)** *State if there have been any changes to hedging activities for*
2 *coal or natural gas purchases used for generation since the previous FAC*
3 *review proceeding. If so, describe the changes in detail.*

4

5 **Response)** Big Rivers does not engage in financial hedging activities regarding
6 its coal or natural gas purchases used for generation. Big Rivers does, however,
7 stagger its purchases of coal to create a natural hedge on price volatility pursuant
8 to Policy No. 111 – Hedge Policy. There have been no changes to these hedging
9 activities since the previous FAC review.

10

11

12 **Witnesses)** Mark W. McAdams (*Coal*) and
13 Wayne O'Bryan (*Natural Gas*)

14

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 9)**

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

9

10 **Response)**

- 11 a. Big Rivers has not audited any of its fuel or transportation
12 contracts during the period from May 1, 2017, through October
13 31, 2017.
- 14 b. (1) – (4)
15 Not Applicable.

16

17

18 **Witnesses)** Mark W. McAdams (*Coal*) and
19 Wayne O'Bryan (*Natural Gas*)

20

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 10)**

2 *a. State whether Big Rivers is currently involved in any*
3 *litigation with its current or former fuel suppliers or*
4 *transportation vendors.*

5 *b. If yes, for each litigation:*

6 *(1) Identify the supplier or vendor;*

7 *(2) Identify the contract involved;*

8 *(3) State the potential liability or recovery to Big Rivers;*

9 *(4) List the issues presented; and*

10 *(5) Provide a copy of the complaint or other legal*
11 *pleading that initiated the litigation and any*
12 *answers or counterclaims. If a copy has previously*
13 *been filed with the Commission, provide the date on*
14 *which it was filed and the case in which it was filed.*

15 *c. State the current status of all litigation with suppliers or*
16 *vendor.*

17

18 **Response)**

19 a. Big Rivers is not currently involved in any litigation with its
20 current or former fuel suppliers or transportation vendors.

21

22

BIG RIVERS ELECTRIC CORPORATION

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- b. (1) – (5)
Not applicable.
- c. Not applicable.

Witnesses) Mark W. McAdams (*Coal*) and
Wayne O'Bryan (*Natural Gas*)

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 11)**

2 *a. For the period under review, state if there have been any*
3 *changes to Big River's written policies and procedures*
4 *regarding its fuel procurement.*

5 *b. If yes:*

6 *(1) Describe the changes;*

7 *(2) Provide the written policies and procedures as*
8 *changed;*

9 *(3) State the date(s) the changes were made; and*

10 *(4) Explain why the changes were made.*

11 *c. If no, provide the date Big River's current fuel*
12 *procurement policies and procedures were last changed,*
13 *when they were last provided to the Commission, and*
14 *identify the proceeding in which they were provided.*

15

16 **Response)**

17 *a. Yes. During the period May 1, 2017, through October 31, 2017,*
18 *Big Rivers made changes to Policy No. 121 – Solid Fuel*
19 *Inventory Policy.*

20

21

BIG RIVERS ELECTRIC CORPORATION

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b. (1) through (4)

Policy No. 121 – Solid Fuel Inventory Policy

On August 18, 2017, Big Rivers revised Reid Station's targeted inventory levels – minimum, midpoint, and maximum. Those targeted inventory levels are now zero.

c. Big Rivers' other fuel procurement policies and procedures were not changed during the period of May 1, 2017, through October 31, 2017. In the table at the top of the following page, Big Rivers lists those unchanged policies and procedures, the dates of their last changes, and the proceedings in which Big Rivers provided them to the Commission.

BIG RIVERS ELECTRIC CORPORATION

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1

Big Rivers Electric Corporation Policies and Procedures for Fuel Procurement				
Number	Name	Date Last Change	Provided In	Date Provided
105	Energy-Related Transaction Authority Policy	2016-12-16	Case No. 2017-00287	2017-09-13
105	Appendix A: Energy-Related Transaction Authority Policy	2016-12-21	Case No. 2017-00287	2017-09-13
111	Hedge Policy	2016-09-16	Case No. 2017-00006	2017-02-20
120	Fuel Procurement Policy and Procedure	2016-09-16	Case No. 2017-00006	2017-02-20
122	Energy-Related Transaction Credit Policy ²	2015-11-19	Case No. 2016-00235	2016-08-26
122	Addendum: Energy-Related Transaction Credit Policy ³	2014-08-15	Case No. 2016-00235	2016-08-26

2

3

4 **Witness)** Mark W. McAdams (*Coal*) and

5 Wayne O'Bryan (*Natural Gas*)

6

² Due to a typographical error, previously reported 'Date Last Change' was 2015-11-15. That error is corrected with this filing.

³ Policy No. 122 and Policy No. 122-Addendum are within the same Word file. As such, when Policy No. 122 was filed in CN 2016-00235, with a 'Date Last Change' of 2015-11-19, that date was incorrectly listed for Policy No. 122 - Addendum. The Addendum's 'Date Last Change' is corrected with this filing.

Solid Fuel Inventory Policy				
Original Effective Date	01/15/1994	Date Last Reviewed	08/18/2017	Approved by BOARD
Original Approval Date	01/15/1994	Date Last Revised	08/18/2017	

Scope

To provide guidelines for the Fuels Procurement section in planning fuel procurement and deliveries such that the rate of receipt of solid fuel, in regard to actual and projected solid fuel burn, provides a desired inventory level at each generating station.

Desired Solid Fuel Inventory Level

Under normal circumstances, the solid fuel inventories shall be maintained within the minimum and maximum ranges, optimizing around the midpoint, as follows:

	Day's Inventory		
<u>Station</u>	<u>Minimum</u>	<u>Midpoint</u>	<u>Maximum</u>
Coleman	0	0	0
Green	30	45	60
HMPL Station II	30	45	60
Reid	0	0	0
Wilson	30	45	60
System	30	45	60

Solid fuel inventory, by Station or by System, may be decreased or increased from the levels shown in the above table as deemed necessary in preparation for planned maintenance (outage), expected interruptions (weather, logistics, etc.) to solid fuel supply or market conditions.

Calculation of Number of Days Supply

The number of “days” of solid fuel inventory at each generating station plant shall be calculated by dividing the total tons in inventory by the projected average daily burn rate.

Projection of Average Daily Burn Rate

The projected average daily burn rate for each generating station shall be calculated by dividing the total tons projected to be burned for the year at that plant by the number of days in the year. The total tons projected to be burned for a given year for each plant shall be that projected in the process of preparing the annual budget and this projection may be revised from time-to-time during the year as more current information affecting the projection becomes available.

Solid Fuel Inventory Policy				
Original Effective Date	01/15/1994	Date Last Reviewed	08/18/2017	Approved by BOARD
Original Approval Date	01/15/1994	Date Last Revised	08/18/2017	

Number	Date	Notes	Approved by
Original	01/15/1994	Originally Coal Inventory Policy	President/CEO
Rev 1	03/18/2011	Revised and renamed Solid Fuel Inventory	Board
Rev 2	10/17/2014	Inventory level change for Coleman and HMPL; update HMPL name	Board
Rev 3	08/21/2015	Added weather, logistics and market conditions as reasons for deviating from solid fuel inventory level ranges	Board
Rev 4	08/18/2017	Inventory level change for Reid	Board



BOARD POLICY

Policy Number: 121

Solid Fuel Inventory Policy				
Original Effective Date	01/15/1994	Date Last Reviewed	08/21/2015	Approved by BOARD
Original Approval Date	01/15/1994	Date Last Revised	08/21/2015	

Scope

To provide guidelines for the Fuels Procurement section in planning fuel procurement and deliveries such that the rate of receipt of solid fuel, in regard to actual and projected solid fuel burn, provides a desired inventory level at each generating station.

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Under normal circumstances, the solid fuel inventories shall be maintained within the minimum and maximum ranges, optimizing around the midpoint, as follows:

Day's Inventory

<u>Station</u>	<u>Minimum</u>	<u>Midpoint</u>	<u>Maximum</u>
Coleman	0	0	0
Green	30	45	60
HMPL Station II	30	45	60
Reid	0	0	0
Wilson	30	45	60
System	30	45	60

Deleted: 16

Deleted: 18

Deleted: 20

Solid fuel inventory, by Station or by System, may be decreased or increased from the levels shown in the above table as deemed necessary in preparation for planned maintenance (outage), expected interruptions (weather, logistics, etc.) to solid fuel supply or market conditions.

Calculation of Number of Days Supply

The number of "days" of solid fuel inventory at each generating station plant shall be calculated by dividing the total tons in inventory by the projected average daily burn rate.

Projection of Average Daily Burn Rate

The projected average daily burn rate for each generating station shall be calculated by dividing the total tons projected to be burned for the year at that plant by the number of days in the year. The total tons projected to be burned for a given year for each plant shall be that projected in the process of preparing the annual budget and this projection may be revised from time-to-time during the year as more current information affecting the projection becomes available.



BOARD POLICY

Policy Number: 121

Solid Fuel Inventory Policy				
Original Effective Date	01/15/1994	Date Last Reviewed	08/21/2015	Approved by BOARD
Original Approval Date	01/15/1994	Date Last Revised	08/21/2015	

Number	Date	Notes	Approved by
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Rev 1	03/18/2011	Revised and renamed Solid Fuel Inventory	Board
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Rev 3	08/21/2015	Added weather, logistics and market conditions as reasons for deviating from solid fuel inventory level ranges	Board
<u>Rev 4</u>	<u>08/18/2017</u>	<u>Inventory level change for Reid</u>	<u>Board</u>

BIG RIVERS ELECTRIC CORPORATION

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

5

6 **Response)**

7 (a) Purchases:

8 Big Rivers has a contract with Southeastern Power
9 Administration ("SEPA") to purchase up to 178 MWs of energy.
10 A force majeure, previously declared by SEPA for this contract
11 due to dam safety issues at Wolf Creek and Center Hill dams on
12 the Cumberland System, remained in effect from May 1, 2017,
13 through October 31, 2017. For the period under review, Big
14 Rivers has operated under an annual contract in which we have
15 to schedule the purchases under the terms of weekly capacity
16 declarations. These are limited to 154 MWs due to ongoing
17 repairs on the Center Hill dam. The repairs currently are
18 expected to last until 2019.

19 Additional purchases are shown on the table which
20 follows. Please note, the purchases listed were made to support
21 firm Off-System Sales and to adjust the amount of sales in
22 selected months. The listed purchases were not passed through
23 Big Rivers' FAC.

BIG RIVERS ELECTRIC CORPORATION

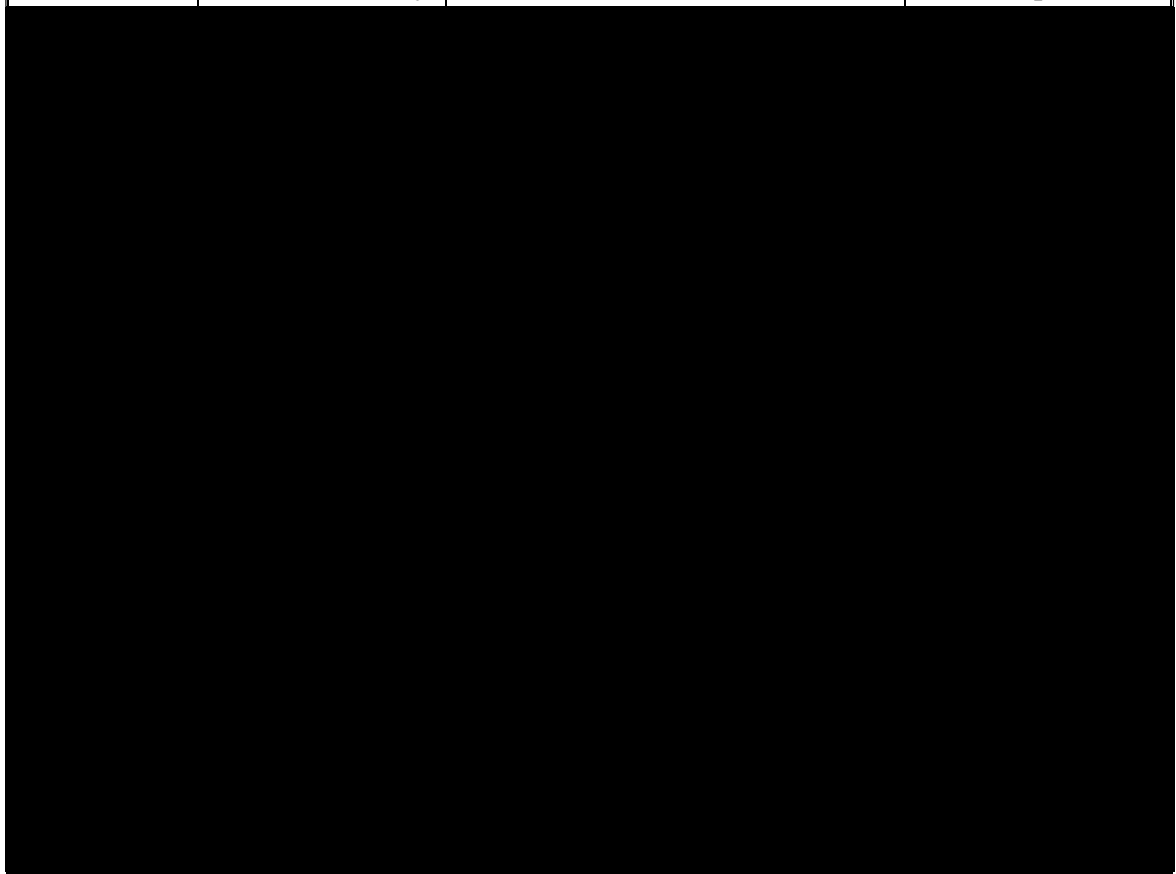
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(a) Purchases:

Big Rivers Electric Corporation Power Purchases May 1, 2017, through October 31, 2017			
Date	Electric Utility	MW Commitment	Purpose
			

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(a) Purchases (continued):

Big Rivers Electric Corporation Power Purchases (continued) May 1, 2017, through October 31, 2017			
Date	Electric Utility	MW Commitment	Purpose
June 2017	ADM	100 MWs – On Peak 35,200 Total	Off-System Sales Adjustments
June 2017	ADM	100 MWs – Off Peak 36,800 Total	Off-System Sales Adjustments
June 2017	ADM	50 MWs – On Peak 17,600 Total	Off-System Sales Adjustments
June 2017	ADM	50 MWs – On-Peak 17,600 Total	Off-System Sales Adjustments
June 2017	EDF	50 MWs – On-Peak 17,600 Total	Off-System Sales Adjustments
July 2017	ADM	100 MWs – On Peak 32,000 Total	Off-System Sales Adjustments
			

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(a) Sales:

2

Big Rivers Electric Corporation Firm Off-System Sales May 1, 2017, through October 31, 2017			
Date	Electric Utility	MW Commitment	Purpose

3

BIG RIVERS ELECTRIC CORPORATION

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(b) Sales (continued):

Big Rivers Electric Corporation Firm Off-System Sales (continued) November 1, 2016, through April 30, 2017			
Date	Electric Utility	MW Commitment	Purpose
June 2017	EDF	100 MWs – On Peak	Off System Sales- 100 MW Call Option
Jul-Aug 2017	EDF	100 MWs – On Peak	Off-System Sales- 100 MW Call Option

Witness) Wayne O'Bryan

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 13)** *Provide a monthly billing summary of sales to all electric*
2 *utilities for the period under review.*

3

4 **Response)** Please see the attached monthly billing summaries for sales to all
5 electric utilities for the period May 1, 2017, through October 31, 2017. Please note
6 that certain identifying information has been redacted from these billing
7 summaries pursuant to 807 KAR 5:001 Section 4(10), which relates to privacy
8 protection for filings.

9 This information also is redacted pursuant to the customer privacy
10 discussion in the joint utilities' report⁴ filed by the utilities in Case No. 2012-
11 00428.⁵ The Commission's Order dated April 16, 2013 ("the April 2013 Order"), in
12 that case concurred with the position of the joint utilities. Finally, this redaction
13 is consistent with Big Rivers' Customer Information and Privacy Policy filed with

⁴ See *Report of the Joint Utilities: Atmos Energy Corporation, Big Rivers Electric Corporation, Big Sandy Rural Electric Cooperative Corporation, Blue Grass Energy Cooperative Corporation, Clark Energy Cooperative, Inc., Columbia Gas of Kentucky, Inc., Cumberland Valley Electric, Delta Natural Gas Company, Inc., Duke Energy Kentucky, Inc., East Kentucky Power Cooperative, Inc., Farmers Rural Electric Cooperative Corporation, Fleming-Mason Energy Cooperative, Inter-County Energy Cooperative Corporation, Jackson Energy Cooperative Corporation, Jackson Purchase Energy Corporation, Kenergy Corp., Kentucky Power Company, Kentucky Utilities Company, Licking Valley Rural Electric Cooperative Corporation, Louisville Gas and Electric Company, Meade County Rural Electric Cooperative Corporation, Nolin Rural Electric Cooperative Corporation, Owen Electric Cooperative, Inc., Salt River Electric Cooperative Corporation, Shelby Energy Cooperative, Inc., South Kentucky Rural Electric Cooperative Corporation, and Taylor County Rural Electric Cooperative Corporation with Comments by: The Attorney General of the Commonwealth of Kentucky by and through His Office of Rate Intervention and the Community Action Council for Lexington-Fayette, Bourbon, Harrison and Nicholas Counties, Inc.* filed June 30, 2014, in Case No. 2012-00428.

⁵ *In the Matter of: Consideration of the Implementation of Smart Grid and Smart Meter Technologies*, Case No. 2012-00428

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2018-00023**

**Response to Commission Staff's Request for Information
dated February 16, 2018**

March 1, 2018

1 the Commission on June 13, 2016, pursuant to Ordering Paragraph No. 4 of the
2 April 2013 Order.

3

4

5 **Witness)** Nicholas R. Castlen

6

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
May 2017**

	KW Billed (a)	kWh (b)	Demand Revenue (c)	Base Energy Revenue (d)	Total Demand & Energy (e) = (c) + (d)	Net Green Power (f)
1 Member Billing May 2017						
2						
3 JP RURALS	108,539	47,349,131	1,498,380.90	\$ 2,130,710.90	\$ 3,629,091.80	\$ 5.00
4 KENERGY	182,503	84,118,901	2,519,453.92	3,785,350.55	6,304,804.47	-
5 MEADE CO. RURALS	64,210	31,562,992	886,419.05	1,420,334.64	2,306,753.69	-
6						
7 TOTAL RURALS	355,252	163,031,024	\$ 4,904,253.87	\$ 7,336,396.09	\$ 12,240,649.96	\$ 5.00
8						
9	5,337	2,342,460	57,185.96	\$ 89,130.60	\$ 146,316.56	\$ -
10	63	35,670	675.05	1,357.24	2,032.29	-
11	30,900	17,370,700	331,093.50	660,955.14	992,048.64	-
12	1,672	526,000	17,915.48	20,014.30	37,929.78	-
13	11,233	4,485,930	120,361.60	170,689.64	291,051.24	-
14	2,766	951,270	29,637.69	36,195.82	65,833.51	-
15	800	297,830	8,572.00	11,332.43	19,904.43	-
16	3,434	565,220	36,795.31	21,506.62	58,301.93	-
17	15,000	11,110,928	160,725.00	422,770.81	583,495.81	-
18	60	12,170	642.90	463.07	1,105.97	-
19	100	24,010	1,071.50	913.58	1,985.08	-
20	37,066	23,776,110	397,162.19	904,680.99	1,301,843.18	-
21	4,662	1,922,430	49,953.33	73,148.46	123,101.79	-
22	3,379	1,515,470	36,205.99	57,663.63	93,869.62	-
23	100	42,690	1,071.50	1,624.35	2,695.85	-
24	250	41,310	2,678.75	1,571.85	4,250.60	-
25	6,955	4,032,590	74,522.83	153,440.05	227,962.88	-
26	13,148	7,450,310	140,880.82	283,484.30	424,365.12	-
27	1,965	1,083,780	21,054.98	41,237.83	62,292.81	-
28						
29 Sub-Total Kenergy Industrials	138,890	77,586,878	\$ 1,488,206.38	\$ 2,952,180.71	\$ 4,440,387.09	\$ -
30						
31	3,154	954,140	33,795.11	36,305.03	70,100.14	-
32						
33 TOTAL INDUSTRIALS	142,044	78,541,018	\$ 1,522,001.49	\$ 2,988,485.74	\$ 4,510,487.23	\$ -
34						
35 GRAND TOTAL	497,296	241,572,042	\$ 6,426,255.36	\$ 10,324,881.83	\$ 16,751,137.19	\$ 5.00

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
May 2017**

1	Member Billing May 2017	Power Factor Penalty (g)	Billing Adjustment (h)	Fuel Adjustment Clause (FAC) (i)	Environmental Surcharge (ES) (j)	Non-FAC PPA (k)	Revenue (l) = Σ (e) to (m)
2							
3	JP RURALS	\$ -	\$ -	\$ 23,153.73	\$ 284,515.27	\$ 63,258.44	\$ 4,000,024.24
4	KENERGY	-	-	41,134.14	494,546.93	112,382.85	6,952,868.39
5	MEADE CO. RURALS	-	-	15,434.30	181,050.93	42,168.16	2,545,407.08
6							
7	TOTAL RURALS	\$ -	\$ -	\$ 79,722.17	\$ 960,113.13	\$ 217,809.45	\$ 13,498,299.71
8							
9		\$ -	\$ -	\$ 1,145.46	\$ 11,531.57	\$ 3,129.53	\$ 162,123.12
10		642.90	-	17.44	160.61	47.66	2,900.90
11		-	(22,691.16)	8,494.27	76,656.24	23,207.26	1,077,715.25
12		-	-	257.21	2,977.99	702.74	41,867.72
13		-	17,002.17	2,193.62	22,914.20	5,993.20	339,154.43
14		-	2,062.49	465.17	5,174.15	1,270.90	74,806.22
15		-	622.71	145.64	1,565.81	397.90	22,636.49
16		835.77	-	276.39	4,543.47	755.13	64,712.69
17		-	-	5,433.24	46,234.03	14,844.20	650,007.28
18		-	-	5.95	86.39	16.26	1,214.57
19		-	-	11.74	155.36	32.08	2,184.26
20		-	-	11,626.52	103,011.54	31,764.88	1,448,246.12
21		-	-	940.07	9,695.20	2,568.37	136,305.43
22		-	-	741.06	7,399.87	2,024.67	104,035.22
23		-	-	20.88	212.40	57.03	2,986.16
24		-	-	20.20	331.26	55.19	4,657.25
25		-	-	1,971.94	18,019.85	5,387.54	253,342.21
26		-	-	3,643.20	33,537.00	9,953.61	471,498.93
27		2,635.89	-	529.97	4,921.54	1,447.93	71,828.14
28							
29	Sub-Total Kenergy Industrials	\$ 4,114.56	\$ (3,003.79)	\$ 37,939.97	\$ 349,128.48	\$ 103,656.08	\$ 4,932,222.39
30							
31		-	-	466.57	5,501.27	1,274.73	77,342.71
32							
33	TOTAL INDUSTRIALS	\$ 4,114.56	\$ (3,003.79)	\$ 38,406.54	\$ 354,629.75	\$ 104,930.81	\$ 5,009,565.10
34							
35	GRAND TOTAL	\$ 4,114.56	\$ (3,003.79)	\$ 118,128.71	\$ 1,314,742.88	\$ 322,740.26	\$ 18,507,864.81

Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
May 2017

1	2	Expense Mitigation Adjustment (EMA) (m)	MRS M Adjustment Fuel Roll-In (n)	MRS M - ER Transmission Rural Adjustment (o)	MRS M - ER Transmission Industrial Adjustment (p)	Total Adjustments for ER & RER on Power Bill (q) = (o) + (p)	Revenue Net of MRS Adjustments (r) = (l) + (q)
3	Member Billing May 2017						
4	JP RURALS	\$ 426,142.18	\$ (483,529.33)	\$ (74,158.56)	\$ -	\$ (74,158.56)	\$ 3,925,865.68
5	KENERGY	757,070.11	(859,022.21)	(129,530.63)	-	(129,530.63)	6,823,337.76
6	MEADE CO. RURALS	284,066.93	(322,321.26)	(47,685.66)	-	(47,685.66)	2,497,721.42
7	TOTAL RURALS	\$ 1,467,279.22	\$ (1,664,872.80)	\$ (251,374.85)	\$ -	\$ (251,374.85)	\$ 13,246,924.86
8							
9		\$ 21,082.14	\$ (23,921.20)	\$ -	\$ (2,098.07)	\$ (2,098.07)	\$ 160,025.05
10		321.03	(364.26)	-	(29.92)	(29.92)	2,870.98
11		156,336.30	(177,389.59)	-	(14,360.76)	(14,360.76)	1,063,354.49
12		4,734.00	(5,371.51)	-	(523.66)	(523.66)	41,344.06
13		40,373.37	(45,810.32)	-	(4,130.23)	(4,130.23)	335,024.20
14		8,561.43	(9,714.37)	-	(918.44)	(918.44)	73,887.78
15		2,680.47	(3,041.44)	-	(280.23)	(280.23)	22,356.26
16		5,086.98	(5,772.03)	-	(744.36)	(744.36)	63,968.33
17		99,998.35	(113,464.80)	-	(8,807.31)	(8,807.31)	641,199.97
18		109.53	(124.28)	-	(14.48)	(14.48)	1,200.09
19		216.09	(245.19)	-	(26.52)	(26.52)	2,157.74
20		213,984.99	(242,801.64)	-	(19,397.78)	(19,397.78)	1,428,848.34
21		17,301.87	(19,631.86)	-	(1,753.15)	(1,753.15)	134,552.28
22		13,639.23	(15,475.98)	-	(1,349.17)	(1,349.17)	102,686.05
23		384.21	(435.95)	-	(38.54)	(38.54)	2,947.62
24		371.79	(421.86)	-	(54.29)	(54.29)	4,602.96
25		36,293.31	(41,180.81)	-	(3,364.15)	(3,364.15)	249,978.06
26		67,052.79	(76,082.57)	-	(6,248.46)	(6,248.46)	465,250.47
27		9,754.02	(11,067.56)	-	(914.76)	(914.76)	70,913.38
28							
29	Sub-Total Kenergy Industrials	\$ 698,281.90	\$ (792,317.22)	\$ -	\$ (65,054.28)	\$ (65,054.28)	\$ 4,867,168.11
30							
31		8,587.26	(9,743.68)	-	(963.33)	(963.33)	76,379.38
32							
33	TOTAL INDUSTRIALS	\$ 706,869.16	\$ (802,060.90)	\$ -	\$ (66,017.61)	\$ (66,017.61)	\$ 4,943,547.49
34							
35	GRAND TOTAL	\$ 2,174,148.38	\$ (2,466,933.70)	\$ (251,374.85)	\$ (66,017.61)	\$ (317,392.46)	\$ 18,190,472.35

Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
June 2017

	KW Billed (a)	kWh (b)	Demand Revenue (c)	Base Energy Revenue (d)	Total Demand & Energy (e) = (c) + (d)	Net Green Power (f)
1 Member Billing June 2017						
2						
3 JP RURALS	131,415	56,566,259	1,814,184.08	\$ 2,545,481.66	\$ 4,359,665.74	\$ 5.00
4 KENERGY	238,670	100,846,249	3,294,839.35	4,538,081.21	7,832,920.56	-
5 MEADE CO. RURALS	84,139	36,209,664	1,161,538.90	1,629,434.88	2,790,973.78	-
6						
7 TOTAL RURALS	454,224	193,622,172	\$ 6,270,562.33	\$ 8,712,997.75	\$ 14,983,560.08	\$ 5.00
8						
9	5,496	2,398,546	58,889.64	\$ 91,264.68	\$ 150,154.32	\$ -
10	55	33,299	589.33	1,267.03	1,856.36	-
11	30,327	13,864,809	324,953.81	527,555.98	852,509.79	-
12	1,667	535,333	17,861.91	20,369.42	38,231.33	-
13	11,000	4,682,341	117,865.00	178,163.08	296,028.08	-
14	2,760	948,567	29,573.40	36,092.97	65,666.37	-
15	800	294,971	8,572.00	11,223.65	19,795.65	-
16	3,361	581,709	36,013.12	22,134.03	58,147.15	-
17	15,000	10,787,434	160,725.00	410,461.86	571,186.86	-
18	60	12,842	642.90	488.64	1,131.54	-
19	100	20,076	1,071.50	763.89	1,835.39	-
20	37,109	24,999,400	397,622.94	951,227.17	1,348,850.11	-
21	4,757	1,827,354	50,971.26	69,530.82	120,502.08	-
22	3,425	1,452,047	36,698.88	55,250.39	91,949.27	-
23	100	36,946	1,071.50	1,405.80	2,477.30	-
24	250	39,813	2,678.75	1,514.88	4,193.63	-
25	7,258	4,299,318	77,769.47	163,589.05	241,358.52	-
26	13,511	7,594,413	144,770.37	288,967.41	433,737.78	-
27	1,936	1,061,344	20,744.24	40,384.14	61,128.38	-
28						
29 Sub-Total Kenergy Industrials	138,972	75,470,562	\$ 1,489,085.02	\$ 2,871,654.89	\$ 4,360,739.91	\$ -
30						
31	1,901	445,288	20,369.22	16,943.21	37,312.43	-
32						
33 TOTAL INDUSTRIALS	140,873	75,915,850	\$ 1,509,454.24	\$ 2,888,598.10	\$ 4,398,052.34	\$ -
34						
35 GRAND TOTAL	595,097	269,538,022	\$ 7,780,016.57	\$ 11,601,595.85	\$ 19,381,612.42	\$ 5.00

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
June 2017**

	Power Factor Penalty (g)	Billing Adjustment (h)	Fuel Adjustment Clause (FAC) (i)	Environmental Surcharge (ES) (j)	Non-FAC PPA (k)	Revenue (l) = Σ (e) to (m)	
1	Member Billing June 2017						
2							
3	JP RURALS	\$ -	\$ -	\$ 19,119.40	\$ 445,835.68	\$ 75,572.52	\$ 4,900,198.34
4	KENERGY	-	-	34,086.03	800,892.11	134,730.59	8,802,629.29
5	MEADE CO. RURALS	-	-	12,238.87	285,414.89	48,376.11	3,137,003.65
6							
7	TOTAL RURALS	\$ -	\$ -	\$ 65,444.30	\$ 1,532,142.68	\$ 258,679.22	\$ 16,839,831.28
8							
9		\$ -	\$ -	\$ 810.71	\$ 15,430.79	\$ 3,204.46	\$ 169,600.28
10		739.34	-	11.26	191.38	44.49	2,842.83
11		-	(17,165.43)	4,686.31	85,932.49	18,523.38	944,486.54
12		-	-	180.94	3,916.26	715.20	43,043.73
13		9,943.52	16,137.04	1,582.63	30,413.91	6,255.61	360,360.79
14		-	1,281.07	320.62	6,731.47	1,267.29	75,266.82
15		-	556.70	99.70	2,030.76	394.08	22,876.89
16		814.34	(378.26)	196.62	5,917.40	777.16	65,474.41
17		-	-	3,646.15	58,977.40	14,412.01	648,222.42
18		-	(7.36)	4.34	115.41	17.16	1,261.09
19		-	-	6.79	187.07	26.82	2,056.07
20		-	(9,570.14)	8,449.80	139,194.77	33,399.20	1,520,323.74
21		-	-	617.65	12,367.20	2,441.34	135,928.27
22		-	(665.63)	490.79	9,446.47	1,939.93	103,160.83
23		-	(20.76)	12.49	254.14	49.36	2,772.53
24		-	(29.25)	13.46	426.41	53.19	4,657.44
25		-	-	1,453.17	24,877.87	5,743.89	273,433.45
26		-	(3,175.23)	2,566.91	44,685.17	10,146.14	487,960.77
27		2,593.03	(451.30)	358.73	6,296.15	1,417.96	71,342.95
28							
29	Sub-Total Kenergy Industrials	\$ 14,090.23	\$ (13,488.55)	\$ 25,509.07	\$ 447,392.52	\$ 100,828.67	\$ 4,935,071.85
30							
31		-	(475.26)	150.51	3,809.20	594.90	41,391.78
32							
33	TOTAL INDUSTRIALS	\$ 14,090.23	\$ (13,963.81)	\$ 25,659.58	\$ 451,201.72	\$ 101,423.57	\$ 4,976,463.63
34							
35	GRAND TOTAL	\$ 14,090.23	\$ (13,963.81)	\$ 91,103.88	\$ 1,983,344.40	\$ 360,102.79	\$ 21,816,294.91

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
June 2017**

1	2	Expense Mitigation Adjustment (EMA) (m)	MRS Adjustment Fuel Roll-In (n)	MRS Transmission Rural Adjustment (o)	MRS Transmission Industrial Adjustment (p)	Total Adjustments for ER & RER on Power Bill (q) = (o) + (p)	Revenue Net of MRS Adjustments (r) = (l) + (q)
3	Member Billing June 2017						
4	JP RURALS	\$ 509,096.33	\$ (577,654.64)	\$ (75,300.29)	\$ -	\$ (75,300.29)	\$ 4,824,898.05
5	KENERGY	907,616.24	(1,029,841.88)	(135,100.12)	-	(135,100.12)	8,667,529.17
6	MEADE CO. RURALS	325,886.98	(369,773.08)	(48,205.07)	-	(48,205.07)	3,088,798.58
7	TOTAL RURALS	\$ 1,742,599.55	\$ (1,977,269.60)	\$ (258,605.48)	\$ -	\$ (258,605.48)	\$ 16,581,225.80
8							
9		\$ 21,586.91	\$ (24,493.95)	\$ -	\$ (2,286.12)	\$ (2,286.12)	\$ 167,314.16
10		299.69	(340.05)	-	(29.01)	(29.01)	2,813.82
11		124,783.28	(141,587.43)	-	(12,825.05)	(12,825.05)	931,661.49
12		4,818.00	(5,466.82)	-	(566.61)	(566.61)	42,477.12
13		42,141.07	(47,816.07)	-	(4,497.55)	(4,497.55)	355,863.24
14		8,537.10	(9,686.77)	-	(979.19)	(979.19)	74,287.63
15		2,654.74	(3,012.24)	-	(297.03)	(297.03)	22,579.86
16		5,235.38	(5,940.41)	-	(814.11)	(814.11)	64,660.30
17		97,086.91	(110,161.28)	-	(9,037.45)	(9,037.45)	639,184.97
18		115.58	(131.14)	-	(16.15)	(16.15)	1,244.94
19		180.68	(205.02)	-	(26.05)	(26.05)	2,030.02
20		224,994.60	(255,293.87)	-	(21,244.41)	(21,244.41)	1,499,079.33
21		16,446.19	(18,660.94)	-	(1,814.66)	(1,814.66)	134,113.61
22		13,068.42	(14,828.30)	-	(1,396.51)	(1,396.51)	101,764.32
23		332.51	(377.29)	-	(37.17)	(37.17)	2,735.36
24		358.32	(406.57)	-	(58.27)	(58.27)	4,599.17
25		38,693.86	(43,904.64)	-	(3,765.73)	(3,765.73)	269,667.72
26		68,349.72	(77,554.15)	-	(6,740.25)	(6,740.25)	481,220.52
27		9,552.10	(10,838.44)	-	(948.08)	(948.08)	70,394.87
28							
29	Sub-Total Kenergy Industrials	\$ 679,235.06	\$ (770,705.38)	\$ -	\$ (67,379.40)	\$ (67,379.40)	\$ 4,867,692.45
30							
31		4,007.59	(4,547.28)	-	(537.17)	(537.17)	40,854.61
32							
33	TOTAL INDUSTRIALS	\$ 683,242.65	\$ (775,252.66)	\$ -	\$ (67,916.57)	\$ (67,916.57)	\$ 4,908,547.06
34							
35	GRAND TOTAL	\$ 2,425,842.20	\$ (2,752,522.26)	\$ (258,605.48)	\$ (67,916.57)	\$ (326,522.05)	\$ 21,489,772.86

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
July 2017**

	KW Billed (a)	kWh (b)	Demand Revenue (c)	Base Energy Revenue (d)	Total Demand & Energy (e) = (c) + (d)	Net Green Power (f)
1 Member Billing July 2017						
2						
3 JP RURALS	148,366	68,638,872	2,048,192.63	\$ 3,088,749.24	\$ 5,136,941.87	\$ 5.00
4 KENERGY	259,166	120,392,274	3,577,786.63	5,417,652.33	8,995,438.96	
5 MEADE CO. RURALS	95,296	43,880,494	1,315,561.28	1,974,622.23	3,290,183.51	-
6						
7 TOTAL RURALS	502,828	232,911,640	\$ 6,941,540.54	\$ 10,481,023.80	\$ 17,422,564.34	\$ 5.00
8						
9	5,526	2,434,736	59,211.09	\$ 92,641.70	\$ 151,852.79	
10	55	34,173	589.33	1,300.28	1,889.61	
11	28,547	10,953,939	305,881.11	416,797.38	722,678.49	
12	1,853	621,082	19,854.90	23,632.17	43,487.07	
13	10,773	3,716,314	115,432.70	141,405.75	256,838.45	
14	2,810	865,155	30,109.15	32,919.15	63,028.30	
15	800	297,637	8,572.00	11,325.09	19,897.09	
16	3,512	564,805	37,631.08	21,490.83	59,121.91	
17	15,000	11,160,000	160,725.00	424,638.00	585,363.00	
18	60	14,229	642.90	541.41	1,184.31	
19	100	24,562	1,071.50	934.58	2,006.08	
20	36,936	25,886,676	395,769.24	984,988.02	1,380,757.26	
21	4,404	1,583,113	47,188.86	60,237.45	107,426.31	
22	3,402	1,272,485	36,452.43	48,418.05	84,870.48	
23	100	35,270	1,071.50	1,342.02	2,413.52	
24	250	38,872	2,678.75	1,479.08	4,157.83	
25	6,948	4,111,268	74,447.82	156,433.75	230,881.57	
26	13,712	7,672,283	146,924.08	291,930.37	438,854.45	
27	1,976	1,002,496	21,172.84	38,144.97	59,317.81	
28						
29 Sub-Total Kenergy Industrials	136,764	72,289,095	\$ 1,465,426.28	\$ 2,750,600.05	\$ 4,216,026.33	
30						
31	3,089	568,965	33,098.64	21,649.12	54,747.76	
32						
33 TOTAL INDUSTRIALS	139,853	72,858,060	\$ 1,498,524.92	\$ 2,772,249.17	\$ 4,270,774.09	\$ -
34						
35 GRAND TOTAL	642,681	305,769,700	\$ 8,440,065.46	\$ 13,253,272.97	\$ 21,693,338.43	\$ 5.00

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
July 2017**

	Power Factor Penalty (g)	Billing Adjustment (h)	Fuel Adjustment Clause (FAC) (i)	Environmental Surcharge (ES) (j)	Non-FAC PPA (k)	Revenue (l) = Σ (e) to (m)	
1	Member Billing July 2017						
2							
3	JP RURALS	\$ -	\$ -	\$ 100,830.50	\$ 579,585.24	\$ 91,701.53	\$ 5,909,064.14
4	KENERGY	-	-	176,856.25	1,014,987.58	160,844.08	10,348,126.87
5	MEADE CO. RURALS	-	-	64,460.45	371,196.10	58,624.34	3,784,464.40
6							
7	TOTAL RURALS	\$ -	\$ -	\$ 342,147.20	\$ 1,965,768.92	\$ 311,169.95	\$ 20,041,655.41
8							
9		\$ -	\$ -	\$ 3,576.63	\$ 17,256.84	\$ 3,252.81	\$ 175,939.07
10		803.63	-	50.20	215.92	45.66	3,005.02
11		-	-	16,091.34	81,933.42	14,634.46	835,337.71
12		-	-	912.37	4,918.72	829.77	50,147.93
13		-	18,197.61	5,459.27	29,065.07	4,965.00	314,525.40
14		-	2,018.39	1,270.91	7,118.30	1,155.85	74,591.75
15		-	906.51	437.23	2,254.62	397.64	23,893.09
16		2,689.47	-	829.70	6,601.85	754.58	69,997.51
17		-	-	16,394.04	67,063.09	14,909.76	683,729.89
18		-	-	20.90	133.14	19.01	1,357.36
19		-	-	36.08	225.65	32.81	2,300.62
20		-	-	38,027.53	158,055.27	34,584.60	1,611,424.66
21		-	-	2,325.59	12,165.63	2,115.04	124,032.57
22		-	-	1,869.28	9,617.91	1,700.04	98,057.71
23		-	-	51.81	273.23	47.12	2,785.68
24		-	-	57.10	464.02	51.93	4,730.88
25		-	-	6,039.45	26,362.71	5,492.65	268,776.38
26		-	-	11,270.58	50,066.23	10,250.17	510,441.43
27		2,946.63	-	1,472.67	6,756.67	1,339.33	71,833.11
28							
29	Sub-Total Kenergy Industrials	\$ 6,439.73	\$ 21,122.51	\$ 106,192.68	\$ 480,548.29	\$ 96,578.23	\$ 4,926,907.77
30							
31		-	-	835.81	6,127.43	760.14	62,471.14
32							
33	TOTAL INDUSTRIALS	\$ 6,439.73	\$ 21,122.51	\$ 107,028.49	\$ 486,675.72	\$ 97,338.37	\$ 4,989,378.91
34							
35	GRAND TOTAL	\$ 6,439.73	\$ 21,122.51	\$ 449,175.69	\$ 2,452,444.64	\$ 408,508.32	\$ 25,031,034.32

Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
July 2017

1	2	Expense Mitigation Adjustment (EMA) (m)	MRS Adjustment Fuel Roll-In (n)	MRS Transmission Rural Adjustment (o)	MRS Transmission Industrial Adjustment (p)	Total Adjustments for ER & RER on Power Bill (q) = (o) + (p)	Revenue Net of MRS Adjustments (r) = (l) + (q)
3	Member Billing July 2017						
4	JP RURALS	\$ 617,749.85	\$ (700,940.16)	\$ (89,949.98)		\$ (89,949.98)	\$ 5,819,114.16
5	KENERGY	1,083,530.47	(1,229,445.89)	(157,583.11)		(157,583.11)	10,190,543.76
6	MEADE CO. RURALS	394,924.45	(448,107.59)	(57,583.51)		(57,583.51)	3,726,880.89
7	TOTAL RURALS	\$ 2,096,204.77	\$ (2,378,493.64)	\$ (305,116.60)	\$ -	\$ (305,116.60)	\$ 19,736,538.81
9		\$ 21,912.62	\$ (24,863.52)		\$ (2,794.52)	\$ (2,794.52)	\$ 173,144.55
10		307.56	(348.97)		(36.13)	(36.13)	2,968.89
11		98,585.45	(111,861.63)		(13,077.16)	(13,077.16)	822,260.55
12		5,589.74	(6,342.49)		(773.55)	(773.55)	49,374.38
13		33,446.83	(37,951.00)		(4,585.61)	(4,585.61)	309,939.79
14		7,786.40	(8,834.96)		(1,108.87)	(1,108.87)	73,482.88
15		2,678.73	(3,039.47)		(358.65)	(358.65)	23,534.44
16		5,083.25	(5,767.79)		(953.58)	(953.58)	69,043.93
17		100,440.00	(113,965.92)		(11,394.89)	(11,394.89)	672,335.00
18		128.06	(145.31)		(20.12)	(20.12)	1,337.24
19		221.06	(250.83)		(34.24)	(34.24)	2,266.38
20		232,980.08	(264,354.74)		(26,724.81)	(26,724.81)	1,584,699.85
21		14,248.02	(16,166.75)		(1,928.07)	(1,928.07)	122,104.50
22		11,452.37	(12,994.62)		(1,530.88)	(1,530.88)	96,526.83
23		317.43	(360.18)		(43.21)	(43.21)	2,742.47
24		349.85	(396.96)		(66.76)	(66.76)	4,664.12
25		37,001.41	(41,984.27)		(4,392.51)	(4,392.51)	264,383.87
26		69,050.55	(78,349.35)		(8,299.24)	(8,299.24)	502,142.19
27		9,022.46	(10,237.49)		(1,109.66)	(1,109.66)	70,723.45
29	Sub-Total Kenergy Industrials	\$ 650,601.87	\$ (738,216.25)		\$ (79,232.46)	\$ (79,232.46)	\$ 4,847,675.31
31		5,120.69	(5,810.27)		(899.15)	(899.15)	61,571.99
33	TOTAL INDUSTRIALS	\$ 655,722.56	\$ (744,026.52)	\$ -	\$ (80,131.61)	\$ (80,131.61)	\$ 4,909,247.30
35	GRAND TOTAL	\$ 2,751,927.33	\$ (3,122,520.16)	\$ (305,116.60)	\$ (80,131.61)	\$ (385,248.21)	\$ 24,645,786.11

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
August 2017**

	KW Billed (a)	kWh (b)	Demand Revenue (c)	Base Energy Revenue (d)	Total Demand & Energy (e) = (c) + (d)	Net Green Power (f)
1 Member Billing August 2017						
2						
3 JP RURALS	133,825	58,504,452	1,847,454.13	\$ 2,632,700.34	\$ 4,480,154.47	\$ 5.00
4 KENERGY	234,975	104,945,190	3,243,829.88	4,722,533.55	7,966,363.43	
5 MEADE CO. RURALS	84,924	38,489,675	1,172,375.82	1,732,035.38	2,904,411.20	-
6						
7 TOTAL RURALS	453,724	201,939,317	\$ 6,263,659.83	\$ 9,087,269.27	\$ 15,350,929.10	\$ 5.00
8						
9	5,360	2,543,134	57,432.40	\$ 96,766.25	\$ 154,198.65	
10	55	32,772	589.33	1,246.97	1,836.30	
11	28,547	12,657,848	305,881.11	481,631.12	787,512.23	
12	1,879	695,356	20,133.49	26,458.30	46,591.79	
13	10,496	4,464,157	112,464.64	169,861.17	282,325.81	
14	2,898	910,985	31,052.07	34,662.98	65,715.05	
15	800	290,718	8,572.00	11,061.82	19,633.82	
16	3,474	591,488	37,223.91	22,506.12	59,730.03	
17	15,000	11,158,888	160,725.00	424,595.69	585,320.69	
18	68	14,417	728.62	548.57	1,277.19	
19	100	26,363	1,071.50	1,003.11	2,074.61	
20	37,238	26,308,094	399,005.17	1,001,022.98	1,400,028.15	
21	4,419	1,630,735	47,349.59	62,049.47	109,399.06	
22	3,447	1,664,655	36,934.61	63,340.12	100,274.73	
23	100	42,799	1,071.50	1,628.50	2,700.00	
24	250	34,901	2,678.75	1,327.98	4,006.73	
25	7,273	4,440,644	77,930.20	168,966.50	246,896.70	
26	13,861	7,936,890	148,520.62	301,998.66	450,519.28	
27	2,061	1,106,618	22,083.62	42,106.81	64,190.43	
28						
29 Sub-Total Kenergy Industrials	137,326	76,551,462	\$ 1,471,448.13	\$ 2,912,783.12	\$ 4,384,231.25	
30						
31	1,814	420,619	19,437.01	16,004.55	35,441.56	
32						
33 TOTAL INDUSTRIALS	139,140	76,972,081	\$ 1,490,885.14	\$ 2,928,787.67	\$ 4,419,672.81	\$ -
34						
35 GRAND TOTAL	592,864	278,911,398	\$ 7,754,544.97	\$ 12,016,056.94	\$ 19,770,601.91	\$ 5.00

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
August 2017**

	Power Factor Penalty (g)	Billing Adjustment (h)	Fuel Adjustment Clause (FAC) (i)	Environmental Surcharge (ES) (j)	Non-FAC PPA (k)	Revenue (l) = Σ (e) to (m)
1	Member Billing August 2017					
2						
3	\$ -	\$ -	\$ 112,153.03	\$ 401,720.58	\$ 78,161.95	\$ 5,072,195.03
4	-	-	201,179.93	714,573.60	140,206.77	9,022,323.73
5	-	-	73,784.71	260,586.21	51,422.21	3,290,204.33
6						
7	\$ -	\$ -	\$ 387,117.67	\$ 1,376,880.39	\$ 269,790.93	\$ 17,384,723.09
8						
9	\$ -	\$ -	\$ 4,875.19	\$ 13,974.64	\$ 3,397.63	\$ 176,446.11
10	739.34	-	62.82	167.11	43.78	2,849.35
11	-	-	24,265.09	71,277.87	16,910.88	899,966.07
12	1,189.37	-	1,333.00	4,202.06	929.00	54,245.22
13	-	20,218.14	8,557.79	25,532.73	5,964.11	342,598.58
14	-	3,373.93	1,746.36	5,907.24	1,217.08	77,959.66
15	-	1,008.66	557.31	1,770.10	388.40	23,358.29
16	1,735.83	-	1,133.88	5,303.05	790.23	68,693.02
17	-	-	21,391.59	53,467.38	14,908.27	675,087.93
18	225.02	-	27.64	113.89	19.26	1,663.00
19	-	-	50.54	185.82	35.22	2,346.19
20	-	-	50,432.62	127,781.47	35,147.61	1,613,389.85
21	-	-	3,126.12	9,866.01	2,178.66	124,569.85
22	-	-	3,191.14	9,090.69	2,223.98	114,780.54
23	-	-	82.05	244.21	57.18	3,083.44
24	-	-	66.91	354.40	46.63	4,474.67
25	-	-	8,512.71	22,478.79	5,932.70	283,820.90
26	-	-	15,215.02	40,971.21	10,603.69	517,309.20
27	3,396.66	-	2,121.39	5,830.84	1,478.44	77,017.76
28						
29	\$ 7,286.22	\$ 24,600.73	\$ 146,749.17	\$ 398,519.51	\$ 102,272.75	\$ 5,063,659.63
30						
31	-	-	806.33	3,166.12	561.95	39,975.96
32						
33	\$ 7,286.22	\$ 24,600.73	\$ 147,555.50	\$ 401,685.63	\$ 102,834.70	\$ 5,103,635.59
34						
35	\$ 7,286.22	\$ 24,600.73	\$ 534,673.17	\$ 1,778,566.02	\$ 372,625.63	\$ 22,488,358.68

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
August 2017**

1	2	Expense Mitigation Adjustment (EMA) (m)	MRS Adjustment Fuel Roll-In (n)	MRS Transmission Rural Adjustment (o)	MRS Transmission Industrial Adjustment (p)	Total Adjustments for ER & RER on Power Bill (q) = (o) + (p)	Revenue Net of MRS Adjustments (r) = (l) + (q)
3	Member Billing August 2017						
4	JP RURALS	\$ 526,540.07	\$ (597,447.46)	\$ (92,570.83)		\$ (92,570.83)	\$ 4,979,624.20
5	KENERGY	944,506.71	(1,071,700.27)	(165,098.52)		(165,098.52)	8,857,225.21
6	MEADE CO. RURALS	346,407.08	(393,056.55)	(60,315.52)		(60,315.52)	3,229,888.81
7	TOTAL RURALS	\$ 1,817,453.86	\$ (2,062,204.28)	\$ (317,984.87)	\$ -	\$ (317,984.87)	\$ 17,066,738.22
8							
9		\$ 22,888.21	\$ (25,970.48)		\$ (2,850.57)	\$ (2,850.57)	\$ 173,595.54
10		294.95	(334.67)		(35.04)	(35.04)	2,814.31
11		113,920.63	(129,261.94)		(14,411.87)	(14,411.87)	885,554.20
12		6,258.20	(7,100.98)		(828.94)	(828.94)	53,416.28
13		40,177.41	(45,587.97)		(5,134.05)	(5,134.05)	337,464.53
14		8,198.87	(9,302.98)		(1,138.26)	(1,138.26)	76,821.40
15		2,616.46	(2,968.81)		(348.29)	(348.29)	23,010.00
16		5,323.39	(6,040.28)		(929.79)	(929.79)	67,763.23
17		100,429.99	(113,954.56)		(11,487.40)	(11,487.40)	663,600.53
18		129.75	(147.23)		(20.66)	(20.66)	1,642.34
19		237.27	(269.22)		(34.87)	(34.87)	2,311.32
20		236,772.85	(268,658.26)		(27,307.09)	(27,307.09)	1,586,082.76
21		14,676.62	(16,653.07)		(1,945.50)	(1,945.50)	122,624.35
22		14,981.90	(16,999.46)		(1,858.53)	(1,858.53)	112,922.01
23		385.19	(437.06)		(49.14)	(49.14)	3,034.30
24		314.11	(356.41)		(60.25)	(60.25)	4,414.42
25		39,965.80	(45,347.86)		(4,727.56)	(4,727.56)	279,093.34
26		71,432.01	(81,051.52)		(8,552.92)	(8,552.92)	508,756.28
27		9,959.56	(11,300.78)		(1,207.89)	(1,207.89)	75,809.87
28							
29	Sub-Total Kenergy Industrials	\$ 688,963.17	\$ (781,743.54)		\$ (82,928.62)	\$ (82,928.62)	\$ 4,980,731.01
30							
31		3,785.57	(4,295.36)		(582.56)	(582.56)	39,393.40
32							
33	TOTAL INDUSTRIALS	\$ 692,748.74	\$ (786,038.90)	\$ -	\$ (83,511.18)	\$ (83,511.18)	\$ 5,020,124.41
34							
35	GRAND TOTAL	\$ 2,510,202.60	\$ (2,848,243.18)	\$ (317,984.87)	\$ (83,511.18)	\$ (401,496.05)	\$ 22,086,862.63

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
September 2017**

	KW Billed (a)	kWh (b)	Demand Revenue (c)	Base Energy Revenue (d)	Total Demand & Energy (e) = (c) + (d)	Net Green Power (f)
1 Member Billing September 2017						
2						
3 JP RURALS	126,689	50,157,593	1,748,941.65	\$ 2,257,091.69	\$ 4,006,033.34	\$ 5.00
4 KENERGY	228,342	90,862,529	3,152,261.31	4,088,813.81	7,241,075.12	
5 MEADE CO. RURALS	80,892	32,295,128	1,116,714.06	1,453,280.76	2,569,994.82	-
6						
7 TOTAL RURALS	435,923	173,315,250	\$ 6,017,917.02	\$ 7,799,186.26	\$ 13,817,103.28	\$ 5.00
8						
9	5,405	2,254,720	57,914.58	\$ 85,792.10	\$ 143,706.68	
10	53	31,436	567.90	1,196.14	1,764.04	
11	32,660	16,417,306	349,951.90	624,678.49	974,630.39	
12	1,838	458,399	19,694.17	17,442.08	37,136.25	
13	10,893	4,002,887	116,718.50	152,309.85	269,028.35	
14	2,829	789,710	30,312.74	30,048.47	60,361.21	
15	800	283,104	8,572.00	10,772.11	19,344.11	
16	3,503	512,917	37,534.65	19,516.49	57,051.14	
17	15,000	10,775,630	160,725.00	410,012.72	570,737.72	
18	60	12,106	642.90	460.63	1,103.53	
19	100	26,096	1,071.50	992.95	2,064.45	
20	37,152	24,567,690	398,083.68	934,800.60	1,332,884.28	
21	4,218	1,662,869	45,195.87	63,272.17	108,468.04	
22	3,478	1,446,121	37,266.77	55,024.90	92,291.67	
23	100	39,588	1,071.50	1,506.32	2,577.82	
24	250	32,179	2,678.75	1,224.41	3,903.16	
25	7,431	4,396,167	79,623.17	167,274.15	246,897.32	
26	13,303	7,298,060	142,541.65	277,691.18	420,232.83	
27	2,465	1,233,233	26,412.48	46,924.52	73,337.00	
28						
29 Sub-Total Kenergy Industrials	141,538	76,240,218	\$ 1,516,579.71	\$ 2,900,940.28	\$ 4,417,519.99	
30						
31	1,771	371,648	18,976.27	14,141.21	33,117.48	
32						
33 TOTAL INDUSTRIALS	143,309	76,611,866	\$ 1,535,555.98	\$ 2,915,081.49	\$ 4,450,637.47	\$ -
34						
35 GRAND TOTAL	579,232	249,927,116	\$ 7,553,473.00	\$ 10,714,267.75	\$ 18,267,740.75	\$ 5.00

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
September 2017**

1	2	Power Factor Penalty (g)	Billing Adjustment (h)	Fuel Adjustment Clause (FAC) (i)	Environmental Surcharge (ES) (j)	Non-FAC PPA (k)	Revenue (l) = Σ (e) to (m)
3	Member Billing September 2017	-	-	88,829.10	190,989.90	67,712.75	4,353,570.09
4	JP RURALS	-	-	160,917.54	345,251.06	122,664.41	7,869,908.13
5	KENERGY	-	-	57,194.67	122,542.77	43,598.42	2,793,330.68
6	MEADE CO. RURALS	-	-	-	-	-	-
7	TOTAL RURALS	-	-	306,941.31	658,783.73	233,975.58	15,016,808.90
8	[REDACTED]	-	-	3,993.11	6,916.52	3,043.87	157,660.18
9	[REDACTED]	567.90	-	55.67	85.44	42.44	2,515.49
10	[REDACTED]	-	(39,663.72)	29,075.05	45,249.68	22,163.36	1,031,454.76
11	[REDACTED]	-	-	811.82	1,769.55	618.84	40,336.46
12	[REDACTED]	-	20,018.71	7,089.11	12,916.94	5,403.90	314,457.01
13	[REDACTED]	-	4,000.49	1,398.58	2,882.62	1,066.11	69,709.01
14	[REDACTED]	-	1,298.33	501.38	928.10	382.19	22,454.11
15	[REDACTED]	1,746.55	-	908.38	2,691.11	692.44	63,089.62
16	[REDACTED]	-	-	19,083.64	27,730.01	14,547.10	632,098.47
17	[REDACTED]	-	-	21.44	52.37	16.34	1,193.68
18	[REDACTED]	-	-	46.22	98.46	35.23	2,244.36
19	[REDACTED]	-	-	43,509.38	64,674.32	33,166.38	1,474,234.36
20	[REDACTED]	503.61	-	2,944.94	5,214.92	2,244.87	119,376.38
21	[REDACTED]	-	-	2,561.08	4,441.67	1,952.26	101,246.68
22	[REDACTED]	-	-	70.11	123.95	53.44	2,825.32
23	[REDACTED]	-	-	56.99	183.70	43.44	4,187.29
24	[REDACTED]	-	-	7,785.61	11,957.83	5,934.83	272,575.59
25	[REDACTED]	-	-	12,924.86	20,326.47	9,852.38	463,336.54
26	[REDACTED]	3,300.22	-	2,184.06	3,541.49	1,664.86	84,027.63
27	[REDACTED]	-	-	-	-	-	-
28	[REDACTED]	-	-	-	-	-	-
29	Sub-Total Kenergy Industrials	6,118.28	(14,346.19)	135,021.43	211,785.15	102,924.28	4,859,022.94
30	[REDACTED]	-	-	658.19	1,572.74	501.72	35,850.13
31	[REDACTED]	-	-	-	-	-	-
32	TOTAL INDUSTRIALS	6,118.28	(14,346.19)	135,679.62	213,357.89	103,426.00	4,894,873.07
33	[REDACTED]	-	-	-	-	-	-
34	GRAND TOTAL	6,118.28	(14,346.19)	442,620.93	872,141.62	337,401.58	19,911,681.97

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
September 2017**

1	2	Expense Mitigation Adjustment (EMA) (m)	MRS Adjustment Fuel Roll-In (n)	MRS Transmission Rural Adjustment (o)	MRS Transmission Industrial Adjustment (p)	Total Adjustments for ER & RER on Power Bill (q) = (o) + (p)	Revenue Net of MRS Adjustments (r) = (l) + (q)
3	Member Billing September 2017						
4	JP RURALS	\$ 451,418.34	\$ (512,209.34)	\$ (92,646.14)		\$ (92,646.14)	\$ 4,260,923.95
5	KENERGY	817,762.76	(927,888.14)	(167,632.36)		(167,632.36)	7,702,275.77
6	MEADE CO. RURALS	290,656.15	(329,797.84)	(59,535.26)		(59,535.26)	2,733,795.42
7	TOTAL RURALS	\$ 1,559,837.25	\$ (1,769,895.32)	\$ (319,813.76)	\$ -	\$ (319,813.76)	\$ 14,696,995.14
8							
9		\$ 20,292.48	\$ (23,025.20)		\$ (2,593.06)	\$ (2,593.06)	\$ 155,067.12
10		282.92	(321.02)		(34.06)	(34.06)	2,481.43
11		147,755.75	(167,653.53)		(17,909.24)	(17,909.24)	1,013,545.52
12		4,125.59	(4,681.17)		(596.25)	(596.25)	39,740.21
13		36,025.98	(40,877.48)		(4,724.78)	(4,724.78)	309,732.23
14		7,107.39	(8,064.52)		(995.66)	(995.66)	68,713.35
15		2,547.94	(2,891.06)		(336.92)	(336.92)	22,117.19
16		4,616.25	(5,237.91)		(802.33)	(802.33)	62,287.29
17		96,980.67	(110,040.73)		(11,380.43)	(11,380.43)	620,718.04
18		108.95	(123.63)		(16.81)	(16.81)	1,176.87
19		234.86	(266.49)		(33.51)	(33.51)	2,210.85
20		221,109.21	(250,885.25)		(26,222.55)	(26,222.55)	1,448,011.81
21		14,965.82	(16,981.22)		(1,934.06)	(1,934.06)	117,442.32
22		13,015.09	(14,767.79)		(1,664.19)	(1,664.19)	99,582.49
23		356.29	(404.27)		(46.00)	(46.00)	2,779.32
24		289.61	(328.61)		(53.16)	(53.16)	4,134.13
25		39,565.50	(44,893.66)		(4,765.46)	(4,765.46)	267,810.13
26		65,682.54	(74,527.79)		(8,001.46)	(8,001.46)	455,335.08
27		11,099.10	(12,593.78)		(1,372.37)	(1,372.37)	82,655.26
28							
29	Sub-Total Kenergy Industrials	\$ 686,161.94	\$ (778,565.11)		\$ (83,482.30)	\$ (83,482.30)	\$ 4,775,540.64
30							
31		3,344.83	(3,795.27)		(509.65)	(509.65)	35,340.48
32							
33	TOTAL INDUSTRIALS	\$ 689,506.77	\$ (782,360.38)	\$ -	\$ (83,991.95)	\$ (83,991.95)	\$ 4,810,881.12
34							
35	GRAND TOTAL	\$ 2,249,344.02	\$ (2,552,255.70)	\$ (319,813.76)	\$ (83,991.95)	\$ (403,805.71)	\$ 19,507,876.26

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
October 2017**

	KW Billed (a)	kWh (b)	Demand Revenue (c)	Base Energy Revenue (d)	Total Demand & Energy (e) = (c) + (d)	Net Green Power (f)
1 Member Billing October 2017						
2						
3 JP RURALS	94,037	44,945,578	1,298,180.79	\$ 2,022,551.01	\$ 3,320,731.80	\$ 5.00
4 KENERGY	181,723	82,397,056	2,508,686.02	3,707,867.52	6,216,553.54	
5 MEADE CO. RURALS	62,111	31,697,828	857,442.36	1,426,402.26	2,283,844.62	-
6						
7 TOTAL RURALS	337,871	159,040,462	\$ 4,664,309.17	\$ 7,156,820.79	\$ 11,821,129.96	\$ 5.00
8						
9	5,262	2,048,110	56,382.33	\$ 77,930.59	\$ 134,312.92	
10	63	36,572	675.05	1,391.56	2,066.61	
11	31,687	17,106,023	339,526.21	650,884.18	990,410.39	
12	1,646	577,898	17,636.89	21,989.02	39,625.91	
13	10,439	3,982,382	111,853.89	151,529.64	263,383.53	
14	2,760	551,635	29,573.40	20,989.71	50,563.11	
15	800	284,380	8,572.00	10,820.66	19,392.66	
16	3,676	584,642	39,388.34	22,245.63	61,633.97	
17	15,000	11,142,918	160,725.00	423,988.03	584,713.03	
18	60	11,363	642.90	432.36	1,075.26	
19	100	24,823	1,071.50	944.52	2,016.02	
20	36,374	25,665,701	389,747.41	976,579.92	1,366,327.33	
21	4,227	1,858,723	45,292.31	70,724.41	116,016.72	
22	3,478	1,676,132	37,266.77	63,776.82	101,043.59	
23	100	34,059	1,071.50	1,295.94	2,367.44	
24	250	34,742	2,678.75	1,321.93	4,000.68	
25	6,887	4,388,445	73,794.21	166,980.33	240,774.54	
26	12,804	7,484,093	137,194.86	284,769.74	421,964.60	
27	2,536	1,309,059	27,173.24	49,809.69	76,982.93	
28						
29 Sub-Total Kenergy Industrials	138,149	78,801,700	\$ 1,480,266.56	\$ 2,998,404.68	\$ 4,478,671.24	
30						
31	1,760	136,445	18,858.40	5,191.73	24,050.13	
32						
33 TOTAL INDUSTRIALS	139,909	78,938,145	\$ 1,499,124.96	\$ 3,003,596.41	\$ 4,502,721.37	\$ -
34						
35 GRAND TOTAL	477,780	237,978,607	\$ 6,163,434.13	\$ 10,160,417.20	\$ 16,323,851.33	\$ 5.00

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
October 2017**

1	2	Power Factor Penalty (g)	Billing Adjustment (h)	Fuel Adjustment Clause (FAC) (i)	Environmental Surcharge (ES) (j)	Non-FAC PPA (k)	Revenue (l) = Σ (e) to (m)
3	Member Billing October 2017						
4	JP RURALS	\$ -	\$ -	\$ 93,127.24	\$ 283,083.86	\$ 60,676.53	\$ 3,757,624.43
5	KENERGY	-	-	170,726.70	529,459.27	111,236.03	7,027,975.54
6	MEADE CO. RURALS	-	-	65,677.90	194,911.13	42,792.07	2,587,225.72
7	TOTAL RURALS	\$ -	\$ -	\$ 329,531.84	\$ 1,007,454.26	\$ 214,704.63	\$ 13,372,825.69
8							
9		\$ -	\$ -	\$ 4,243.68	\$ 11,514.01	\$ 2,764.95	\$ 152,835.56
10		642.90	-	75.78	178.57	49.37	3,013.23
11		-	(30,280.59)	35,443.68	82,994.71	23,093.13	1,101,661.32
12		825.06	-	1,197.40	3,389.60	780.16	45,818.13
13		-	14,766.93	8,251.50	22,569.18	5,376.22	314,347.36
14		-	2,182.63	1,142.99	4,273.37	744.71	58,906.81
15		-	691.43	589.24	1,659.28	383.91	22,716.52
16		1,360.81	-	1,211.38	5,184.56	789.27	70,179.99
17		-	-	23,088.13	50,745.52	15,042.94	673,589.62
18		-	-	23.54	90.77	15.34	1,204.91
19		-	-	51.43	171.17	33.51	2,272.13
20		-	-	53,179.33	118,475.66	34,648.70	1,572,631.02
21		-	-	3,851.27	9,970.55	2,509.28	132,347.82
22		-	-	3,472.95	8,699.72	2,262.78	115,479.04
23		-	-	70.57	202.38	45.98	2,686.37
24		-	-	71.99	335.64	46.90	4,455.21
25		-	-	9,092.86	20,840.35	5,924.40	276,632.15
26		-	-	15,507.04	36,465.68	10,103.53	484,040.85
27		3,396.66	-	2,712.37	6,637.07	1,767.23	91,496.26
28							
29	Sub-Total Kenergy Industrials	\$ 6,225.43	\$ (12,639.60)	\$ 163,277.13	\$ 384,397.79	\$ 106,382.31	\$ 5,126,314.30
30							
31		-	-	282.71	1,997.50	184.20	26,514.54
32							
33	TOTAL INDUSTRIALS	\$ 6,225.43	\$ (12,639.60)	\$ 163,559.84	\$ 386,395.29	\$ 106,566.51	\$ 5,152,828.84
34							
35	GRAND TOTAL	\$ 6,225.43	\$ (12,639.60)	\$ 493,091.68	\$ 1,393,849.55	\$ 321,271.14	\$ 18,525,654.53

**Big Rivers Electric Corporation
Monthly Billing Summary
Sales to Members
October 2017**

1	2	Expense Mitigation Adjustment (EMA) (m)	MRS Adjustment Fuel Roll-In (n)	MRS Transmission Rural Adjustment (o)	MRS Transmission Industrial Adjustment (p)	Total Adjustments for ER & RER on Power Bill (q) = (o) + (p)	Revenue Net of MRS Adjustments (r) = (l) + (q)
3	Member Billing October 2017						
4	JP RURALS	\$ 404,510.20	\$ (458,984.24)	\$ (85,208.18)		\$ (85,208.18)	\$ 3,672,416.25
5	KENERGY	741,573.50	(841,438.73)	(158,284.80)		(158,284.80)	6,869,690.74
6	MEADE CO. RURALS	285,280.45	(323,698.21)	(59,156.50)		(59,156.50)	2,528,069.22
7	TOTAL RURALS	\$ 1,431,364.15	\$ (1,624,121.18)	\$ (302,649.48)	\$ -	\$ (302,649.48)	\$ 13,070,176.21
8							
9		\$ 18,432.99	\$ (20,915.30)		\$ (2,245.54)	\$ (2,245.54)	\$ 150,590.02
10		329.15	(373.47)		(36.76)	(36.76)	2,976.47
11		153,954.21	(174,686.71)		(17,133.42)	(17,133.42)	1,084,527.90
12		5,201.08	(5,901.49)		(650.93)	(650.93)	45,167.20
13		35,841.44	(40,668.08)		(4,388.57)	(4,388.57)	309,958.79
14		4,964.72	(5,633.30)		(749.12)	(749.12)	58,157.69
15		2,559.42	(2,904.09)		(319.24)	(319.24)	22,397.28
16		5,261.78	(5,970.36)		(874.64)	(874.64)	69,305.35
17		100,286.26	(113,791.48)		(10,752.35)	(10,752.35)	662,837.27
18		102.27	(116.04)		(15.76)	(15.76)	1,189.15
19		223.41	(253.49)		(31.10)	(31.10)	2,241.03
20		230,991.31	(262,098.14)		(24,962.14)	(24,962.14)	1,547,668.88
21		16,728.51	(18,981.28)		(1,978.96)	(1,978.96)	130,368.86
22		15,085.19	(17,116.66)		(1,748.69)	(1,748.69)	113,730.35
23		306.53	(347.81)		(38.68)	(38.68)	2,647.69
24		312.68	(354.79)		(55.36)	(55.36)	4,399.85
25		39,496.01	(44,814.80)		(4,339.90)	(4,339.90)	272,292.25
26		67,356.84	(76,427.56)		(7,515.10)	(7,515.10)	476,525.75
27		11,781.53	(13,368.11)		(1,346.35)	(1,346.35)	90,149.91
28							
29	Sub-Total Kenergy Industrials	\$ 709,215.33	\$ (804,722.96)		\$ (79,182.61)	\$ (79,182.61)	\$ 5,047,131.69
30							
31		1,228.01	(1,393.38)		(301.07)	(301.07)	26,213.47
32							
33	TOTAL INDUSTRIALS	\$ 710,443.34	\$ (806,116.34)	\$ -	\$ (79,483.68)	\$ (79,483.68)	\$ 5,073,345.16
34							
35	GRAND TOTAL	\$ 2,141,807.49	\$ (2,430,237.52)	\$ (302,649.48)	\$ (79,483.68)	\$ (382,133.16)	\$ 18,143,521.37

**Big Rivers Electric Corporation
Monthly Billing Summary
Other Sales
May 2017**

1	May 2017 - Other Sales	KWH	REVENUE	MILLS/KWH
2				
3	SPECIAL SALES TO RUS BORROWERS			
4				
5	KENERGY-DOMTAR COGEN	4,593,244	\$ 195,692.59	42.60
6	HOOSIER ENERGY RURAL ELECTRIC COOP-		387,500.00	
7				
8	TOTAL SPECIAL SALES TO RUS BORROWERS	4,593,244	\$ 583,192.59	126.97
9				
10				
11	TO OTHER THAN RUS BORROWERS			
12				
13	ADM INVESTOR SERVICES		\$ 41,850.00	
14	DTE ENERGY TRADING	18,600,000	574,740.00	30.90
15	EDF TTRADING NORTH AMERICA	72,400,000	2,281,120.00	31.51
16	HENDERSON MUNICIPAL POWER & LIGHT	7,595,000	227,329.15	29.93
17	INDIANA MUNICIPAL POWER AGENCY-CAPACITY		75,000.00	
18	MISO	61,039,041	1,638,715.51	26.85
19	MISO-CAPACITY SALES		341,926.90	
20	MORGAN STANLEY CAPITAL GROUP	130,200,000	3,950,640.00	30.34
21	NEXTERA ENERGY POWER MARKETING	72,400,000	2,367,100.00	32.69
22	NEXTERA ENERGY POWER MARKETING-CAPACITY SALES		37,500.00	
23				
24	TOTAL TO OTHER THAN RUS BORROWERS	362,234,041	\$ 11,535,921.56	31.85
25				
26	TOTAL	366,827,285	\$ 12,119,114.15	33.04

Big Rivers Electric Corporation
Monthly Billing Summary
Other Sales
June 2017

1	June 2017 - Other Sales	KWH	REVENUE	MILLS/KWH
2				
3	SPECIAL SALES TO RUS BORROWERS			
4				
5	KENERGY-DOMTAR COGEN	7,061,834	\$ 204,336.98	28.94
6	HOOSIER ENERGY RURAL ELECTRIC COOP-		370,000.00	
7	WABASH VALLEY POWER ASSOCIATION-CAPACITY		1,750.00	
8	SOUTHERN ILLINOIS POWER COOPERATIVE-		1,300.00	
9				
10	TOTAL SPECIAL SALES TO RUS BORROWERS	7,061,834	\$ 577,386.98	81.76
11				
12				
13	TO OTHER THAN RUS BORROWERS			
14				
15	ADM INVESTOR SERVICES		\$ (684,622.00)	
16	DTE ENERGY TRADING	18,000,000	556,200.00	30.90
17	DTE ENERGY TRADING-CAPACITY SALES		250,000.00	
18	EDF TTRADING NORTH AMERICA	77,600,000	2,501,120.00	32.23
19	EDF TTRADING NORTH AMERICA-CAPACITY SALES		82,720.00	
20	HENDERSON MUNICIPAL POWER & LIGHT	3,775,000	119,848.14	31.75
21	MISO	43,235,685	1,147,370.02	26.54
22	MISO-CAPACITY SALES		(306.00)	
23	MORGAN STANLEY CAPITAL GROUP	126,000,000	3,823,200.00	30.34
24	NEXTERA ENERGY POWER MARKETING	71,200,000	2,330,200.00	32.73
25	NEXTERA ENERGY POWER MARKETING-CAPACITY SALES		275,000.00	
26	SHELL ENERGY NORTH AMERICA (US) LP-		125,000.00	
27	CITY OF HANNIBAL, MO-CAPACITY SALES		85,500.00	
28	CITY OF KAHOKA, MO-CAPACITY SALES		14,250.00	
29	CITY OF CALIFORNIA, MO-CAPACITY SALES		29,500.00	
30	CITY OF CENTRALIA, MO-CAPACITY SALES		24,250.00	
31	CITY OF MARCELINE, MO-CAPACITY SALES		7,750.00	
32				
33	TOTAL TO OTHER THAN RUS BORROWERS	339,810,685	\$ 10,686,980.16	31.45
34				
35	TOTAL	346,872,519	\$ 11,264,367.14	32.47

**Big Rivers Electric Corporation
Monthly Billing Summary
Other Sales
July 2017**

1	July 2017 - Other Sales	KWH	REVENUE	MILLS/KWH
2				
3	SPECIAL SALES TO RUS BORROWERS			
4				
5	KENERGY-DOMTAR COGEN	7,565,213	\$ 260,224.98	34.40
6	HOOSIER ENERGY RURAL ELECTRIC COOP-		370,000.00	
7	WABASH VALLEY POWER ASSOCIATION-CAPACITY		1,750.00	
8	SOUTHERN ILLINOIS POWER COOPERATIVE-		1,300.00	
9				
10	TOTAL SPECIAL SALES TO RUS BORROWERS	7,565,213	\$ 633,274.98	83.71
11				
12				
13	TO OTHER THAN RUS BORROWERS			
14				
15	ADM INVESTOR SERVICES		\$ (24,506.00)	
16	DTE ENERGY TRADING	18,600,000	574,740.00	30.90
17	DTE ENERGY TRADING-CAPACITY SALES		250,000.00	
18	EDF TTRADING NORTH AMERICA	70,800,000	2,255,900.00	31.86
19	EDF TTRADING NORTH AMERICA-CAPACITY SALES		144,480.00	
20	HENDERSON MUNICIPAL POWER & LIGHT	2,452,000	88,796.43	36.21
21	MISO	42,569,657	1,316,373.43	30.92
22	MISO-CAPACITY SALES		(316.20)	
23	MORGAN STANLEY CAPITAL GROUP	130,200,000	3,950,640.00	30.34
24	NEXTERA ENERGY POWER MARKETING	69,200,000	2,255,200.00	32.59
25	NEXTERA ENERGY POWER MARKETING-CAPACITY SALES		275,000.00	
26	SHELL ENERGY NORTH AMERICA (US) LP-		125,000.00	
27	CITY OF HANNIBAL, MO-CAPACITY SALES		85,500.00	
28	CITY OF KAHOKA, MO-CAPACITY SALES		14,250.00	
29	CITY OF CALIFORNIA, MO-CAPACITY SALES		29,500.00	
30	CITY OF CENTRALIA, MO-CAPACITY SALES		24,250.00	
31	CITY OF MARCELINE, MO-CAPACITY SALES		7,750.00	
32				
33	TOTAL TO OTHER THAN RUS BORROWERS	333,821,657	\$ 11,372,557.66	34.07
34				
35	TOTAL	341,386,870	\$ 12,005,832.64	35.17

Case No. 2018-00023

Attachment for Response to Staff Item 13

Witness: Nicholas R. Castlen

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**Big Rivers Electric Corporation
Monthly Billing Summary
Other Sales
August 2017**

1	August 2017 - Other Sales	KWH	REVENUE	MILLS/KWH
2				
3	SPECIAL SALES TO RUS BORROWERS			
4				
5	KENERGY-DOMTAR COGEN	6,313,816	\$ 187,277.71	29.66
6	HOOSIER ENERGY RURAL ELECTRIC COOP-		370,000.00	
7	WABASH VALLEY POWER ASSOCIATION-CAPACITY		1,750.00	
8	SOUTHERN ILLINOIS POWER COOPERATIVE-		1,300.00	
9				
10	TOTAL SPECIAL SALES TO RUS BORROWERS	6,313,816	\$ 560,327.71	88.75
11				
12				
13	TO OTHER THAN RUS BORROWERS			
14				
15	ADM INVESTOR SERVICES		\$ 53,822.00	
16	DTE ENERGY TRADING	18,600,000	574,740.00	30.90
17	DTE ENERGY TRADING-CAPACITY SALES		250,000.00	
18	EDF TTRADING NORTH AMERICA	74,000,000	2,334,080.00	31.54
19	EDF TTRADING NORTH AMERICA-CAPACITY SALES		144,480.00	
20	HENDERSON MUNICIPAL POWER & LIGHT	3,640,000	124,104.12	34.09
21	MISO	12,903,928	405,098.87	31.39
22	MISO-CAPACITY SALES		(316.20)	
23	MORGAN STANLEY CAPITAL GROUP	130,200,000	3,950,640.00	30.34
24	NEXTERA ENERGY POWER MARKETING	74,000,000	2,422,700.00	32.74
25	NEXTERA ENERGY POWER MARKETING-CAPACITY SALES		275,000.00	
26	SHELL ENERGY NORTH AMERICA (US) LP-		125,000.00	
27	CITY OF HANNIBAL, MO-CAPACITY SALES		85,500.00	
28	CITY OF KAHOKA, MO-CAPACITY SALES		14,250.00	
29	CITY OF CALIFORNIA, MO-CAPACITY SALES		29,500.00	
30	CITY OF CENTRALIA, MO-CAPACITY SALES		24,250.00	
31	CITY OF MARCELINE, MO-CAPACITY SALES		7,750.00	
32				
33	TOTAL TO OTHER THAN RUS BORROWERS	313,343,928	\$ 10,820,598.79	34.53
34				
35	TOTAL	319,657,744	\$ 11,380,926.50	35.60

**Big Rivers Electric Corporation
Monthly Billing Summary
Other Sales
September 2017**

1	September 2017 - Other Sales	KWH	REVENUE	MILLS/KWH
2		_____	_____	_____
3	SPECIAL SALES TO RUS BORROWERS			
4				
5	KENERGY-DOMTAR COGEN	4,913,260	\$ 160,595.05	32.69
6	HOOSIER ENERGY RURAL ELECTRIC COOP-		370,000.00	
7	WABASH VALLEY POWER ASSOCIATION-CAPACITY		1,750.00	
8	SOUTHERN ILLINOIS POWER COOPERATIVE-		1,300.00	
9		_____	_____	_____
10	TOTAL SPECIAL SALES TO RUS BORROWERS	4,913,260	\$ 533,645.05	108.61
11		_____	_____	_____
12				
13	TO OTHER THAN RUS BORROWERS			
14				
15	ADM INVESTOR SERVICES		\$ 362,664.00	
16	DTE ENERGY TRADING	18,000,000	556,200.00	30.90
17	DTE ENERGY TRADING-CAPACITY SALES		250,000.00	
18	EDF TTRADING NORTH AMERICA	68,000,000	2,139,200.00	31.46
19	EDF TTRADING NORTH AMERICA-CAPACITY SALES			
20	HENDERSON MUNICIPAL POWER & LIGHT	1,502,000	36,869.74	24.55
21	MISO	38,835,060	1,566,338.48	40.33
22	MISO-CAPACITY SALES		(306.00)	
23	MORGAN STANLEY CAPITAL GROUP	126,000,000	3,823,200.00	30.34
24	NEXTERA ENERGY POWER MARKETING	68,000,000	2,219,000.00	32.63
25	NEXTERA ENERGY POWER MARKETING-CAPACITY SALES		275,000.00	
26	SHELL ENERGY NORTH AMERICA (US) LP-		125,000.00	
27	CITY OF HANNIBAL, MO-CAPACITY SALES		85,500.00	
28	CITY OF KAHOKA, MO-CAPACITY SALES		14,250.00	
29	CITY OF CALIFORNIA, MO-CAPACITY SALES		29,500.00	
30	CITY OF CENTRALIA, MO-CAPACITY SALES		24,250.00	
31	CITY OF MARCELINE, MO-CAPACITY SALES		7,750.00	
32		_____	_____	_____
33	TOTAL TO OTHER THAN RUS BORROWERS	320,337,060	\$ 11,514,416.22	35.94
34		_____	_____	_____
35	TOTAL	<u>325,250,320</u>	<u>\$ 12,048,061.27</u>	<u>37.04</u>

**Big Rivers Electric Corporation
Monthly Billing Summary
Other Sales
October 2017**

1	October 2017 - Other Sales	KWH	REVENUE	MILLS/KWH
2		_____	_____	_____
3	SPECIAL SALES TO RUS BORROWERS			
4				
5	KENERGY-DOMTAR COGEN	3,875,432	\$ 148,051.00	38.20
6	HOOSIER ENERGY RURAL ELECTRIC COOP-		370,000.00	
7	WABASH VALLEY POWER ASSOCIATION-CAPACITY		1,750.00	
8	SOUTHERN ILLINOIS POWER COOPERATIVE	1,300,000	36,386.00	27.99
9	SOUTHERN ILLINOIS POWER COOPERATIVE-		1,300.00	
10		_____	_____	_____
11	TOTAL SPECIAL SALES TO RUS BORROWERS	5,175,432	\$ 557,487.00	107.72
12				
13				
14	TO OTHER THAN RUS BORROWERS			
15				
16	ADM INVESTOR SERVICES		\$ (49,926.00)	
17	DTE ENERGY TRADING	18,600,000	574,740.00	30.90
18	DTE ENERGY TRADING-CAPACITY SALES		250,000.00	
19	EDF TTRADING NORTH AMERICA	72,400,000	2,281,120.00	31.51
20	EDF TTRADING NORTH AMERICA-CAPACITY SALES			
21	HENDERSON MUNICIPAL POWER & LIGHT	35,694,000	1,008,646.83	28.26
22	MISO	286,152,495	1,145,053.85	4.00
23	MISO-CAPACITY SALES		(316.20)	
24	MORGAN STANLEY CAPITAL GROUP	130,200,000	3,950,640.00	30.34
25	NEXTERA ENERGY POWER MARKETING	92,000,000	2,881,600.00	31.32
26	NEXTERA ENERGY POWER MARKETING-CAPACITY SALES		275,000.00	
27	SHELL ENERGY NORTH AMERICA (US) LP-		125,000.00	
28	CITY OF HANNIBAL, MO-CAPACITY SALES		85,500.00	
29	CITY OF KAHOKA, MO-CAPACITY SALES		14,250.00	
30	CITY OF CALIFORNIA, MO-CAPACITY SALES		29,500.00	
31	CITY OF CENTRALIA, MO-CAPACITY SALES		24,250.00	
32	CITY OF MARCELINE, MO-CAPACITY SALES		7,750.00	
33		_____	_____	_____
34	TOTAL TO OTHER THAN RUS BORROWERS	635,046,495	\$ 12,602,808.48	19.85
35		_____	_____	_____
36	TOTAL	<u>640,221,927</u>	<u>\$ 13,160,295.48</u>	<u>20.56</u>

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2018-00023**

**Response to Commission Staff's Request for Information
dated February 16, 2018**

March 1, 2018

1 **Item 14)** *Describe the effect on the FAC calculation of line losses related*
2 *to:*

3 *a. intersystem sales when using a third-party transmission*
4 *system, and*

5 *b. intersystem sales when not using a third-party*
6 *transmission system.*

7 **Response)**

8 a. Big Rivers had no intersystem sales during the period under
9 review which used a third-party transmission system.

10 b. Line losses related to intersystem sales, which did not use a
11 third-party transmission system, are included in Big Rivers'
12 total System Losses reported on page 3 of its monthly Form A
13 filing. Big Rivers calculates an overall system average fuel cost
14 per kWh each month by dividing (1) the total cost of fuel for
15 generation by (2) the net kWh generated minus total System
16 Losses. The overall system average fuel cost per kWh (which
17 accounts for total System Losses, including line losses related to
18 intersystem sales) is multiplied by the intersystem sales volume
19 to calculate the cost of fuel allocated to intersystem sales in Big
20 Rivers' monthly Form A filing..

21

22 **Witness)** Nicholas R. Castlen

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2018-00023**

**Response to Commission Staff's Request for Information
dated February 16, 2018**

March 1, 2018

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

3

4 **Response)** Please see the attached summary for the requested information
5 regarding scheduled ("S"), actual ("A"), and forced ("F") outages.

6

7

8 **Witness)** Ronald D. Gregory

9

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Reid Station Unit #1 - Coal - 65MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

		MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
MONTH	TYPE	FROM	TO	FROM	TO				
May 2017		No Outages							Reid Unit #1 was idled April 1, 2016, and has not yet been restarted.
June 2017		No Outages							
July 2017		No Outages							
August 2017		No Outages							
September 2017		No Outages							
October 2017		No Outages							

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation

Schedule vs. Actual

Reid Station Unit #2 - Combustion Turbine - Oil/Gas - 65MW Net

May 1, 2017, through October 31, 2017 (the review period)

		MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
MONTH	TYPE	Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
May 2017		No Outages							
June 2017		No Outages							
July 2017	F			7/19/2017 13:08	7/19/2017 13:30	0:22	0:22	Synchronization scope issues	
August 2017		No Outages							
September 2017	F			9/5/2017 9:10	9/5/2017 9:31	0:21	0:21	Synchronization scope issues	
October 2017		No Outages							

Case No. 2018-00023

Attachment for Response to Staff Item 15

Witness: Ronald D. Gregory

Page 2 of 14

Big Rivers Electric Corporation Scheduled ("S"), Actual ("A"), and Forced ("F") Outages May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Henderson Station Two - Unit #1 - Coal - 153MW Net
May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

MONTH	TYPE	MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
May 2017	S, A	—————→	—————→	—————→	—————→	744:00		744:00	43 day Planned Outage for "A" 4160 Volt auxiliary bus replacement, Selective Catalytic Reduction catalyst replacement, Turbine Valve overhaul, etc.
June 2017	S, A	6/1/2017 00:00	6/4/2017 0:00	6/1/2017 0:00	6/3/2017 17:57	72:00		65:57	43 day Planned Outage for "A" 4160 Volt auxiliary bus replacement, Selective Catalytic Reduction catalyst replacement, Turbine Valve overhaul, etc.
	F			6/3/2017 18:13	6/3/2017 19:15		1:02	1:02	"A" mill tripped off during start-up, due to the rating damper on "A" Primary Air fan not opening. The unit tripped on reverse current, due to inadequate fuel flow to maintain megawatts.
	S, A	6/3/2017 19:00	6/4/2017 0:00	6/3/2017 19:24	6/3/2017 23:25	5:00		4:01	The unit was manually tripped to confirm that the "A" 4160 Volt tie switchgear would close in. The unit had just returned to service from a Planned Outage where 4160 Volt switchgear was replaced.
	S, A	6/4/2017 08:00	6/4/2017 17:00	6/4/2017 8:40	6/4/2017 16:05	9:00		7:25	Maintenance Outage to repair a leak at a Wet Bottom access door
	F			6/4/2017 16:13	6/4/2017 16:56		0:43	0:43	The unit tripped on reverse current, due to an operational upset as the operator was performing the Turbine Valve transfer during the unit start-up.
	F			6/6/2017 0:02	6/7/2017 18:46		42:44	42:44	"A" and "B" Selective Catalytic Reduction Diverter Dampers were binding on the jam seals, when the damper heated up. Inspected both dampers and removed the bottom vertical jam seals to allow for smooth operation.

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Henderson Station Two - Unit #1 - Coal - 153MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

MONTH	TYPE	MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
June 2017	F			6/7/2017 22:45	6/9/2017 2:10	27:25	27:25		"A" and "B" Selective Catalytic Reduction Diverter Dampers were binding on the jam seals, when the damper heated up. Inspected both dampers and removed the top vertical jam seals to eliminate rubbing observed on the interior of the ducts.
July 2017	F			7/16/2017 15:15	7/16/2017 17:47	2:32	2:32		Unit tripped unit tripped on low drum level, when feedwater flow decayed rapidly immediately following the "A" mill being removed from service.
	F			7/28/2017 21:31	7/30/2017 23:30	49:59	49:59		Hydrogen chloride (HCl) high limit out of compliance
August 2017	F			8/4/2017 18:43	8/7/2017 2:50	56:07	56:07		Hydrogen chloride (HCl) high limit out of compliance
	F			8/9/2017 12:35	8/21/2017 2:26	277:51	277:51		Hydrogen chloride (HCl) high limit out of compliance
	F			8/22/2017 16:00	8/31/2017 1:02	201:02	201:02		Hydrogen chloride (HCl) high limit out of compliance
September 2017	F			9/1/2017 15:18	9/6/2017 11:36	116:18	116:18		Hydrogen chloride (HCl) high limit out of compliance
October 2017	S, A	10/9/2017 12:30	10/10/2017 12:30	10/9/2017 12:30	10/10/2017 12:30	24:00	24:00		Maintenance Outage to repair a roof waterwall tube leak found during a boiler hydrostatic test that was performed while the unit was in Reserve Standby.
	S, A	10/17/2017 07:00	10/21/2017 7:00	10/17/2017 7:00	10/21/2017 7:00	96:00	96:00		Maintenance Outage to inspect the Turbine "A" Main Steam Stop Valve.
	S, A	10/21/2017 07:00	10/30/2017 12:30	10/21/2017 7:00	10/30/2017 12:30	221:30	221:30		Extended Maintenance Outage to replace a cracked seat on the Turbine 'A' Main Steam Stop Valve.

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Henderson Station Two - Unit #2 - Coal - 159MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

MONTH	TYPE	MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
May 2017	F			5/3/2017 11:02	5/5/2017 4:33	41:31	41:31		Tube leaks in the High Temperature Reheat section of the boiler in panels number 7 and 8 from the East wall at elevation 565' – 6".
	F			5/10/2017 16:32	5/11/2017 0:13	7:41	7:41		Tripped offline due to failure of the relay switch on the generator Main Step-Up Transformer Sudden Pressure Relay.
	F			5/29/2017 10:29	6/1/2017 0:43	62:14	62:14		Tube leaks in the High Temperature Reheat section of the boiler in panels 3, 4, and 5 from the East wall at elevation 565' – 6".
June 2017	F			6/1/2017 14:52	6/1/2017 21:31	6:39	6:39		Oil leak from the Transformer Pressure Relief Valve on the Main Step-up transformer.
	F			6/6/2017 23:31	6/9/2017 14:47	63:16	63:16		Tube leaks in the High Temperature Reheat section of the boiler in panels 5, 6, and 7 from the East wall at elevation 565' – 6".
July 2017	F			7/13/2017 7:23	7/16/2017 7:00	71:37	71:37		Tube leak in the Economizer section of the boiler in panel 21 from the West wall at elevation 521' – 6".
	F			7/21/2017 10:46	7/21/2017 14:10	3:24	3:24		Unit tripped on a low drum level, when the feedwater dropped off during the removal of "B" mill from service.
August 2017	F			8/9/2017 8:55	8/11/2017 4:21	43:26	43:26		Tube leak in the Economizer section of the boiler at elevation 523'-5", East side Economizer drain line.
	F			8/11/2017 4:21	8/11/2017 9:21	5:00	5:00		Starting time limit reached, due to #2 Governor Turbine Valve failing to open during start-up.

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Henderson Station Two - Unit #2 - Coal - 159MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

MONTH	TYPE	MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
August 2017	F			8/20/2017 5:14	8/20/2017 10:22	5:08	5:08		Unit tripped due to low excess air resulting from an operational upset caused by failure of the flow transmitter signal on the "B" side of the "A" Primary Air fan.
September 2017	F			9/6/2017 20:14	9/6/2017 22:24	2:10	2:10		Unit tripped on a high drum level, during the process of removing the "B" Mill from service.
October 2017	S, A	10/25/2017 00:00	10/26/2017 20:00	10/25/2017 0:00	10/26/2017 19:30	44:00		43:30	Maintenance Outage to perform T1 Tie Transformer repairs.

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Green Station Unit #1 - Coal/Pet coke - 231MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

MONTH	TYPE	MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
May 2017	F			5/1/2017 16:13	5/3/2017 20:11		51:58	51:58	Tube leak in the Reheat Outlet section, leading edge tube in the 25th bank from the East on the 10th floor.
	F			5/10/2017 14:30	5/13/2017 16:00		73:30	73:30	Tube leak in the Reheat Outlet section, 3rd tube back from the leading edge in the 25th bank from the East on the 10th floor.
June 2017		No Outages							
July 2017		No Outages							
August 2017	F			8/10/2017 12:50	8/12/2017 14:35		49:45	49:45	Tube leak in the Reheat Outlet section, the leading edge tube in the 12th bank from the East approximately 7ft from the bottom.
	S, A	8/12/2017 14:30	8/14/2017 10:00	8/12/2017 14:35	8/14/2017 9:08	43:30		42:33	Maintenance Outage to make repairs to the 7th field of the precipitator and to repair cracks in the stack liner.
	F			8/17/2017 11:19	8/18/2017 16:00		28:41	28:41	Tube leak in the Reheat Outlet section, 9th tube back from the leading edge in the 30th bank from the East.
	S, A	8/18/2017 16:00	8/21/2017 10:00	8/18/2017 16:00	8/21/2017 8:45	66:00		64:45	Maintenance Outage to make repairs to Reheater Outlet elements. Ultrasonic thickness checks were performed on 53 Reheat Outlet elements and 15 dutchmen were installed.
	S, A	8/25/2017 18:00	8/25/2017 22:00	8/25/2017 18:21	8/25/2017 22:00	4:00		3:39	Maintenance Outage to replace the Extraction Check Holding Pressure Switch and Turbine Trip Relays contacts.

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Green Station Unit #1 - Coal/Pet coke - 231MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

MONTH	TYPE	MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
September 2017	F			9/13/2017 4:33	9/13/2017 5:59	1:26	1:26		Starting failure declared, due to start-up delays caused by turbine vacuum issues related to the reheater valves on the boiler leaking through.
October 2017	F			10/23/2017 17:37	10/24/2017 23:43	30:06	30:06		"B" Air Preheater gearbox output shaft locked up, due to a bearing failure.
	F			10/25/2017 4:26	10/25/2017 7:07	2:41	2:41		Fluid leak from a fitting on the Electro Hydraulic Control system on the Turbine Left Side Reheat Intercept Valve.

**Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017**

Big Rivers Electric Corporation
Green Station Unit #2 - Coal/Pet coke - 223MW Net
May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

MONTH	TYPE	MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
May 2017		No Outages							
June 2017		No Outages							
July 2017	F			7/4/2017 9:07	7/7/2017 10:00	72:53	72:53	"B" Flue Gas Desulphurization reaction tank agitator shaft failure.	
August 2017	S, A	8/4/2017 13:00	8/7/2017 6:30	8/4/2017 13:45	8/7/2017 6:30	65:30	64:45	Hg (Mercury) readings out of compliance when reagent supplies changed.	
September 2017	F			9/14/2017 1:48	9/14/2017 3:43	1:55	1:55	Starting failure declared, due to repair of steam leaks discovered during start-up. Leaks were at a fitting on the Main Steam sample line to the lab, on the packing of the root valve for the Main Steam pressure inlet transmitter and on the sensing line for the 1st Stage pressure transmitter.	
October 2017		No Outages							

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Coleman Station Unit #1 - Coal - 150MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

		MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual					
MONTH	TYPE	FROM	TO	FROM	TO	Scheduled	Forced	Actual	
May 2017		No Outages							Coleman Unit #1 was idled on May 1, 2014, and has not yet been returned to service.
June 2017		No Outages							
July 2017		No Outages							
August 2017		No Outages							
September 2017		No Outages							
October 2017		No Outages							

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Coleman Station Unit #2 - Coal - 138MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

		MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
MONTH	TYPE	FROM	TO	FROM	TO				
May 2017		No Outages							Coleman Unit #2 was idled on May 1, 2014, and has not yet been returned to service.
June 2017		No Outages							
July 2017		No Outages							
August 2017		No Outages							
September 2017		No Outages							
October 2017		No Outages							

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Coleman Station Unit #3 - Coal - 155MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

		MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual					
MONTH	TYPE	FROM	TO	FROM	TO	Scheduled	Forced	Actual	
May 2017	No Outages								Coleman Unit #3 was idled on May 8, 2014, and has not yet been returned to service.
June 2017	No Outages								
July 2017	No Outages								
August 2017	No Outages								
September 2017	No Outages								
October 2017	No Outages								

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Wilson Station - Unit #1 - Coal/Pet Coke - 417MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

MONTH	TYPE	MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
May 2017	F			5/2/2017 6:21	5/2/2017 21:08	14:47		14:47	The unit was removed from service to repair a broken chain on the Wet Bottom submerged flight conveyor.
May 2017	F			5/30/2017 15:50	—————→	32:10		32:10	Leak in Main Steam line, due to a weld failure on the Main Steam Shutoff valve.
June 2017	F			—————→	6/14/2017 8:18	320:18		320:18	Leak in Main Steam line, due to a weld failure on the Main Steam Shutoff valve.
July 2017	F			7/23/2017 23:23	7/28/2017 1:32	98:09		98:09	#2 Primary Air Preheater locked up due to upper guide bearing failure
	F			7/30/2017 10:28	7/31/2017 5:25	18:57		18:57	Leak on the 1st Stage East Superheat Spray sensing line.
August 2017	F			8/17/2017 15:56	8/20/2017 21:26	77:30		77:30	Tube Leak in the Economizer section of boiler between elevations 517.4' to 520.3'.
	F			8/29/2017 22:43	—————→	49:17		49:17	#2 Primary Air Preheater stub shaft bolting failure.
September 2017	F			—————→	9/1/2017 21:04	21:04		21:04	#2 Primary Air Preheater stub shaft bolting failure.
	S, A	9/23/2017 13:00	9/25/2017 13:00	9/23/2017 13:35	9/24/2017 23:30	48:00		33:55	Maintenance Outage to clean Flue Gas Desulphurization Mist Eliminator Panels wash spray nozzles.
	F			9/25/2017 5:31	9/25/2017 12:49	7:18		7:18	Section of circumferential seal support bracket broke loose and caused #2 Primary Air Preheater to lockup.

Big Rivers Electric Corporation
Scheduled ("S"), Actual ("A"), and Forced ("F") Outages
May 1, 2017, through October 31, 2017

Big Rivers Electric Corporation
Wilson Station - Unit #1 - Coal/Pet Coke - 417MW Net
 May 1, 2017, through October 31, 2017 (the review period)

Schedule vs. Actual

		MAINTENANCE				HOURS OF DURATION			REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
MONTH	TYPE	Scheduled		Actual		Scheduled	Forced	Actual	
		FROM	TO	FROM	TO				
September 2017	F			9/26/2017 3:12	9/26/2017 10:07	6:55	6:55	#2 Induced Draft fan tripped while the #1 Induced Draft fan was already out of service.	
October 2017		No Outages							

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2018-00023**

**Response to Commission Staff's Request for Information
dated February 16, 2018**

March 1, 2018

1 **Item 16)** *For the period under review, provide the monthly capacity*
2 *factor at which each generating unit operated.*

3

4 **Response)** Please see the table below and the foot notes on following page

Big Rivers Electric Corporation Monthly Capacity Factor by Generating Unit							
Generating Unit	Metric ^a	May 2017	June 2017	July 2017	Aug. 2017	Sept. 2017	Oct. 2017
Station Two Unit # 1	GCF	0.0%	61.8%	39.4%	22.3%	35.0%	15.2%
	NCF	-0.5%	60.3%	37.4%	20.4%	33.0%	13.7%
Station Two Unit # 2	GCF	71.7%	59.5%	63.2%	72.6%	54.0%	0.0%
	NCF	70.1%	57.5%	61.3%	70.9%	51.8%	-1.4%
Reid Station Unit # 1 ^b	GCF	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	NCF	-3.0%	-3.0%	-3.0%	-2.8%	-2.7%	-2.8%
Reid Station Unit # 2 CT	GCF	0.0%	0.0%	0.8%	0.7%	1.6%	0.0%
	NCF	-0.1%	-0.1%	0.7%	0.5%	1.5%	-0.1%
Green Station Unit # 1	GCF	63.1%	74.6%	79.9%	52.0%	47.3%	76.0%
	NCF	61.0%	72.3%	78.1%	49.5%	45.5%	73.7%
Green Station Unit # 2	GCF	82.1%	76.3%	67.4%	37.0%	44.8%	76.8%
	NCF	80.6%	74.7%	65.7%	35.3%	43.4%	75.0%
Wilson Station Unit # 1	GCF	82.4%	48.7%	76.3%	73.8%	52.2%	89.7%
	NCF	82.0%	47.9%	75.7%	73.2%	51.4%	89.7%
Coleman Station Unit # 1 ^c	GCF	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	NCF	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%
Coleman Station Unit # 2 ^c	GCF	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	NCF	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%
Coleman Station Unit # 3 ^c	GCF	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	NCF	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%

5

6

BIG RIVERS ELECTRIC CORPORATION

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1

Footnotes to Big Rivers Monthly Capacity Factor table on prior page:

a.- NCF (Net Capacity Factor) =
$$\frac{\text{Net Actual Generation} \times 100\%}{\text{PH (Period Hours)} \times \text{NMC (Net Maximum Capacity)}}$$

 GCF (Gross Capacity Factor) =
$$\frac{\text{Gross Actual Generation} \times 100\%}{\text{PH (Period Hours)} \times \text{GMC (Gross Maximum Capacity)}}$$

b.- Reid 1 was put in Idled Status effective April 1, 2016.

c.- Coleman Station Units 1, 2 and 3 were placed in Idled Status on May 8, 2014.

2

3

4 **Witness) Jason C. Burden**

5

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
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**Response to Commission Staff's Request for Information
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March 1, 2018

1 **Item 17)**

2 *a. For the period under review, explain if Big Rivers made*
3 *any changes to its maintenance and operation practices,*
4 *or completed any specific generation efficiency improve-*
5 *ments that affect fuel usage at Big River's generation*
6 *facilities.*

7 *b. Describe the impact of these changes on Big River's fuel*
8 *usage.*

9

10 **Response)**

11 a. The HMP&L Unit 1 outage was started one week later than
12 originally scheduled, on April 22, 2017, and the duration was
13 changed from 25 days (600 hrs.) to 43 days (1032 hrs.) to permit
14 the planned scope to be executed over 31 working days on a
15 straight time basis, with the unit scheduled to return to service
16 on June 4, 2017.

17 b. From May 1, 2017 through June 3, 2017 of the period under
18 review, the change in the scheduled duration of the HMP&L
19 Unit 1 outage reduced the amount of fuel consumed by the
20 HMP&L Unit 1 generating unit by approximately 45,000 tons
21 that would have otherwise been burned.

22

BIG RIVERS ELECTRIC CORPORATION

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ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2018-00023**

**Response to Commission Staff's Request for Information
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March 1, 2018

1

2 **Witnesses)** Ronald D. Gregory (a. *only*) and
3 Jason C. Burden (b. *only*)

4

5

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2018-00023**

**Response to Commission Staff's Request for Information
dated February 16, 2018**

March 1, 2018

1 **Item 18)** *State whether Big Rivers is aware of any violations of its*
2 *policies and procedures regarding fuel procurement that occurred prior*
3 *to or during the period under review.*

4

5 **Response)** Big Rivers is unaware of any violations of its policies and procedures
6 regarding fuel procurement that occurred during the period May 1, 2017, through
7 October 31, 2017. Big Rivers is also unaware of any unreported violation prior to
8 the current period under review.

9

10

11 **Witnesses)** Mark W. McAdams (*Coal*) and
12 Wayne O'Bryan (*Natural Gas*)

13

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2017-00287**

**Response to Commission Staff's Request for Information
dated February 16, 2018**

March 1, 2018

1 **Item 19)** *State whether Big Rivers is aware of any violations of 807 KAR*
2 *5:056 that occurred prior to or during the period under review.*

3

4 **Response)** Big Rivers is unaware of any violations of 807 KAR 5:056 that
5 occurred prior to or during the period under review.

6

7

8 **Witness)** Nicholas R. Castlen

9

BIG RIVERS ELECTRIC CORPORATION

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION
FROM MAY 1, 2017 THROUGH OCTOBER 31, 2017
CASE NO. 2017-00287**

**Response to Commission Staff's Request for Information
dated February 16, 2018**

March 1, 2018

1 **Item 20)** *State whether all fuel contracts related to commodity and/or*
2 *transportation have been filed with the Commission. If any contracts have*
3 *not been filed, explain why they have not been filed and provide a copy.*

4

5 **Response)** All of Big Rivers' fuel and transportation contracts have been filed
6 with the Commission.

7

8

9 **Witnesses)** Mark W. McAdams (*Coal*) and

10 Wayne O'Bryan (*Natural Gas*)

11