

**ORIGINAL**



Your Touchstone Energy® Cooperative 

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY**

**In the Matter of:**

<b>ELECTRONIC EXAMINATION OF THE</b>	<b>)</b>	
<b>APPLICATION OF THE FUEL ADJUSTMENT</b>	<b>)</b>	
<b>CLAUSE OF BIG RIVERS ELECTRIC</b>	<b>)</b>	<b>Case No.</b>
<b>CORPORATION FROM NOVEMBER 1, 2018</b>	<b>)</b>	<b>2019-00231</b>
<b>THROUGH APRIL 30, 2019</b>	<b>)</b>	

**Responses to Commission's Request for Information**  
**dated**  
**August 12, 2019**

**FILED: August 26, 2019**

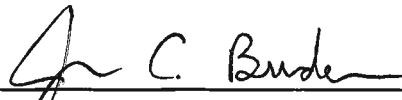
**ORIGINAL**

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

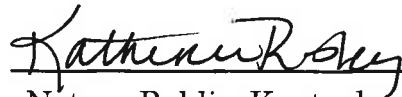
**VERIFICATION**

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 )

26<sup>th</sup> SUBSCRIBED AND SWORN TO before me by Jason C. Burden on this the  
day of August, 2019.

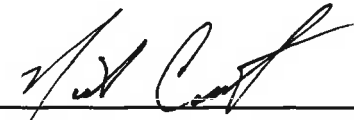
  
\_\_\_\_\_  
Notary Public, Kentucky State at Large  
My Commission Expires October 31, 2020

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**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 26<sup>th</sup> day of August, 2019.



Notary Public, Kentucky State at Large

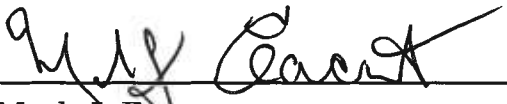
My Commission Expires October 31, 2020

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**


**VERIFICATION**

I, Mark J. Eacret, 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 J. Eacret

COMMONWEALTH OF KENTUCKY )  
COUNTY OF HENDERSON )

26<sup>th</sup> SUBSCRIBED AND SWORN TO before me by Mark J. Eacret on this the  
day of August, 2019.

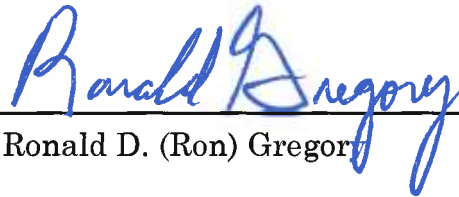
  
\_\_\_\_\_  
Notary Public, Kentucky State at Large  
My Commission Expires October 31, 2020

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

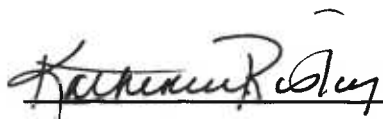
**VERIFICATION**

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 26<sup>th</sup> day of August, 2019.

  
\_\_\_\_\_  
Notary Public, Kentucky State at Large  
My Commission Expires October 31, 2020

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

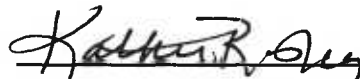
**VERIFICATION**

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 )

SUBSCRIBED AND SWORN TO before me by Mark W. McAdams on this the 26<sup>th</sup> day of August, 2019.

  
\_\_\_\_\_  
Notary Public, Kentucky State at Large  
My Commission Expires October 31, 2020

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

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 November 1, 2018, through April 30, 2019**

<b>Purchase Vendor</b>	<b>Fuel Type</b>	<b>Purchase Tonnage</b>	<b>Contract Type</b>
Foresight Coal (BRE-15-005)	Coal	112,693.88	Contract
KenAmerican Resources (BRE-15-006)	Coal	177,125.75	Contract
Peabody COALSALES (BRE-15-018)	Coal	87,808.00	Contract
Rhino/Pennyrile (BRE-15-009)	Coal	19,464.10	Contract
Rhino/Pennyrile (BRE-18-001)	Coal	156,098.30	Contract
Sun Energy (BRE-18-002)	Coal	48,807.30	Contract
Alliance Coal (BRE-18-003)	Coal	409,918.90	Contract
WKY Consol. Resources (BRE-19-002)	Coal	172,020.51	Contract
Rhino/Pennyrile (BRE-19-003)	Coal	39,476.30	Contract
Alliance Coal (BRE-19-005)	Coal	91,066.07	Contract
Alliance Coal (BRE-18-005)	Coal	67,997.76	Spot
<b>Total Tonnage</b>		<b>1,382,476.87</b>	

**For the Period from November 1, 2018, through April 30, 2019**

Percentage Spot Purchase Tons	4.92 %
Percentage Contract Purchase Tons	95.08 %
Percentage Total Purchase Tons	100.00 %

7

8

9 **Witness)** Mark W. McAdams

10

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

1 **Item 2)**      *For the period under review, list each coal purchase made under*  
2 *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*  
7      *sourced;*

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. 2019-00231**  
**Long-Term Fuel Contract Information**

**Foresight Coal Supply Agreement**

A. CONTRACT NUMBER:	BRE-15-005		
B. SUPPLIER'S NAME / ADDRESS:	Foresight Coal Sales, LLC 46226 National Road St. Clairsville, OH 43950		
C. PRODUCTION FACILITY:	Shay No. 1 Mine, Macoupin County, Illinois; KenAmerican Paradise No. 9 Mine Western KY Consolidated Resources and Muhlenberg Coal Company's Genesis and Pride Mines Muhlenberg and Ohio Counties, Kentucky		
D. METHOD OF DELIVERY:	Barge and/or truck		
E. ACTUAL TONNAGE:	2015	–	200,318 Tons
	2016	–	239,969 Tons
	2017	–	239,421 Tons
	2018	–	240,151 Tons
	2019	–	88,629 Tons <i>(through April)</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	–	99.76 %
	2018	–	100.06 %
	2019	–	36.93 % <i>(through April)</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
	2018	–	\$ 40.5497 per Ton
	2019	–	\$ 42.3490 per Ton

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**KenAmerican Resources Coal Supply Agreement**

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 Western Kentucky Consolidated Resources – Genesis Mine Muhlenberg County Coal Company – Pride Mine																				
D. METHOD OF DELIVERY:	Truck																				
E. ACTUAL TONNAGE:	<table><tbody><tr><td>2015</td><td>–</td><td>300,077</td><td>Tons</td></tr><tr><td>2016</td><td>–</td><td>500,015</td><td>Tons</td></tr><tr><td>2017</td><td>–</td><td>498,581</td><td>Tons</td></tr><tr><td>2018</td><td>–</td><td>400,449</td><td>Tons</td></tr><tr><td>2019</td><td>–</td><td>111,000</td><td>Tons (through April)</td></tr></tbody></table>	2015	–	300,077	Tons	2016	–	500,015	Tons	2017	–	498,581	Tons	2018	–	400,449	Tons	2019	–	111,000	Tons (through April)
2015	–	300,077	Tons																		
2016	–	500,015	Tons																		
2017	–	498,581	Tons																		
2018	–	400,449	Tons																		
2019	–	111,000	Tons (through April)																		
F. ANNUAL TONNAGE REQUIREMENTS:	<table><tbody><tr><td>2015</td><td>–</td><td>300,000</td><td>Tons</td></tr><tr><td>2016</td><td>–</td><td>500,000</td><td>Tons</td></tr><tr><td>2017</td><td>–</td><td>500,000</td><td>Tons</td></tr><tr><td>2018</td><td>–</td><td>400,000</td><td>Tons</td></tr><tr><td>2019</td><td>–</td><td>350,000 min. 400,000 max.</td><td>Tons</td></tr></tbody></table>	2015	–	300,000	Tons	2016	–	500,000	Tons	2017	–	500,000	Tons	2018	–	400,000	Tons	2019	–	350,000 min. 400,000 max.	Tons
2015	–	300,000	Tons																		
2016	–	500,000	Tons																		
2017	–	500,000	Tons																		
2018	–	400,000	Tons																		
2019	–	350,000 min. 400,000 max.	Tons																		
PERCENT OF ANNUAL REQUIREMENTS:	<table><tbody><tr><td>2015</td><td>–</td><td>100.03 %</td></tr><tr><td>2016</td><td>–</td><td>100.00 %</td></tr><tr><td>2017</td><td>–</td><td>99.72 %</td></tr><tr><td>2018</td><td>–</td><td>100.11 %</td></tr><tr><td>2019</td><td>–</td><td>27.75 % (through April)<sup>1</sup></td></tr></tbody></table>	2015	–	100.03 %	2016	–	100.00 %	2017	–	99.72 %	2018	–	100.11 %	2019	–	27.75 % (through April) <sup>1</sup>					
2015	–	100.03 %																			
2016	–	100.00 %																			
2017	–	99.72 %																			
2018	–	100.11 %																			
2019	–	27.75 % (through April) <sup>1</sup>																			

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<sup>1</sup> Calculated based on 400,000 ton maximum for 2019.

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**KenAmerican Resources Coal Supply Agreement (*continued*)**  
**(Contract Number – BRE-15-006)**

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 ( <i>Jan – Mar</i> )
			\$ 46.0260	per Ton ( <i>Apr – Dec</i> )
CURRENT PRICE ( <i>Contract</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 ( <i>Jan – Mar</i> )
			\$ 46.0260	per Ton ( <i>Apr – Dec</i> )

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Rhino Energy LLC and Pennyrile Energy LLC Coal Sales**

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	–	450,000	Tons
2018	–	150,000	Tons

F. ANNUAL TONNAGE REQUIREMENTS:

2015	–	105,000	Tons
2016	–	350,000	Tons
2017	–	450,000	Tons
2018	–	150,000	Tons

PERCENT OF ANNUAL REQUIREMENTS:

2015	–	100.25	%
2016	–	100.00	%
2017	–	100.00	%
2018	–	100.00	%

G. CURRENT PRICE (*Base*):

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 (*Contract*):

Riveredge 2015	–	\$ 43.7494	per Ton
Riveredge 2016	–	\$ 45.7498	per Ton
Riveredge 2017	–	\$ 47.7500	per Ton
Riveredge 2018	–	\$ 47.0826	per Ton

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Peabody COALSALES**

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 Operations,  
Warrick and Gibson Counties, Indiana

D. METHOD OF DELIVERY: Barge

E. ACTUAL TONNAGE:

2016	-	350,001	Tons
2017	-	525,046	Tons
2018	-	625,497	Tons

F. ANNUAL TONNAGE REQUIREMENTS:

2016	-	350,000	Tons
2017	-	525,000	Tons
2018	-	625,000	Tons

PERCENT OF ANNUAL REQUIREMENTS:

2016	-	100.00	%
2017	-	100.01	%
2018	-	100.08	%

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
2018	-	\$ 40.4998	per Ton

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Rhino Energy LLC and Pennyrile Energy LLC Coal Sales**

A. CONTRACT NUMBER:	BRE-18-001		
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:	2018	-	350,000 Tons
	2019	-	101,456 Tons <i>(through April)</i>
F. ANNUAL TONNAGE REQUIREMENTS:	2018	-	350,000 Tons
	2019	-	150,000 min. Tons 350,000 max.
	2020	-	150,000 min. Tons 350,000 max.
PERCENT OF ANNUAL REQUIREMENTS:	2018	-	100.00 %
	2019	-	28.99 % <i>(through April)</i> <sup>2</sup>
G. CURRENT PRICE ( <i>Base</i> ):	2018	-	\$ 37.5002 per Ton
	2019	-	\$ 38.6302 per Ton
	2020	-	\$ 39.7896 per Ton
CURRENT PRICE ( <i>Contract</i> ):	2018	-	\$ 37.5002 per Ton
	2019	-	\$ 38.6302 per Ton

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<sup>2</sup> Calculated based on 350,000 ton maximum for 2019.

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Sun Energy Group LLC**

A. CONTRACT NUMBER: BRE-18-002

B. SUPPLIER'S NAME/ADDRESS: Sun Energy Group LLC  
2701 West 1100 South  
Huntingburg, Indiana 47542

C. PRODUCTION FACILITY: Hilsmeier #1 Surface Mine  
Pike and Dubois Counties, Indiana

D. METHOD OF DELIVERY: Barge

E. ACTUAL TONNAGE:

2018	–	83,828	Tons	
2019	–	36,009	Tons	(through April)

F. ANNUAL TONNAGE REQUIREMENTS:

2018	–	80,000	Tons	(Amendment One)
2019	–	165,000	Tons	
2020	–	240,000	Tons	
2021	–	220,000	Tons	

PERCENT OF ANNUAL REQUIREMENTS:

2018	–	104.79	%	
2019	–	21.82	%	(through April)

G. CURRENT PRICE (Base):

Quality A (11,200 BTU per lb.)

2018	–	\$ 35.0000	per Ton	
2019	–	\$ 35.0000	per Ton	(first 145,000 tons)
		\$ 35.9990	per Ton	(next 20,000 tons)
2020	–	\$ 35.9990	per Ton	(first 20,000 tons)
		\$ 37.3498	per Ton	(next 220,000 tons)
2021	–	\$ 37.3498	per Ton	

Quality B (10,600 BTU per lb.)

2018	–	\$ 32.8791	per Ton	
2019	–	\$ 32.8791	per Ton	(first 145,000 tons)
		\$ 33.8161	per Ton	(next 20,000 tons)
2020	–	\$ 33.8161	per Ton	(first 20,000 tons)
		\$ 35.0839	per Ton	(next 220,000 tons)
2021	–	\$ 35.0839	per Ton	

CURRENT PRICE (Contract):

Quality A (11,200 BTU per lb.)

2018	–	\$ 35.0000	per Ton	
2019	–	\$ 35.0000	per Ton	

Quality B (10,600 BTU per lb.)

2018	–	\$ 32.8791	per Ton	
2019	–	\$ 32.8791	per Ton	

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Alliance Coal, LLC**

A. CONTRACT NUMBER:	BRE-18-003			
B. SUPPLIER'S NAME/ADDRESS:	Alliance Coal, LLC 1717 South Boulder, Suite 400 Tulsa, OK 74119			
C. PRODUCTION FACILITY:	Riverview Coal, LLC – River View Mine Union County, Kentucky			
D. METHOD OF DELIVERY:	Barge			
E. ACTUAL TONNAGE:	2018	–	590,897	Tons
	2019	–	269,958	Tons (through April)
F. ANNUAL TONNAGE REQUIREMENTS:	2018	–	585,000	Tons (effective date – February 12, 2018)
	2019	–	300,000 min. 800,000 max.	Tons
	2020	–	300,000 min. 800,000 max.	Tons
PERCENT OF ANNUAL REQUIREMENTS:	2018	–	101.00 %	
	2019	–	33.74 %	(through April) <sup>3</sup>
G. CURRENT PRICE (Base):	2018	–	\$ 36.5010	per Ton
	2019	–	\$ 37.7499	per Ton
	2020	–	\$ 39.0034	per Ton
CURRENT PRICE (Contract):	2018	–	\$ 36.5010	per Ton
	2019	–	\$ 37.7499	per Ton

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<sup>3</sup> Calculated based on 800,000 ton maximum for 2019.



**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Western Kentucky Consolidated Resources, LLC (“WKCC”) and  
Ken American Resources, Inc**

A. CONTRACT NUMBER:	BRE-19-002			
B. SUPPLIER’S NAME / ADDRESS:	Western Kentucky Consolidated Resources, LLC KenAmerican Resources, Inc. 46226 National Road St. Clairsville, OH 43950			
C. PRODUCTION FACILITY:	WKCC Genesis Mine WKCC Pride Mine KenAmerican Paradise Mine			
D. METHOD OF DELIVERY:	Barge and/or truck			
E. ACTUAL TONNAGE:	2019	–	172,021 Tons	<i>(through April)</i>
F. ANNUAL TONNAGE REQUIREMENTS:	2019	–	400,000 min. 500,000 max.	Tons
	2020	–	400,000 min. 500,000 max.	Tons
	2020 <i>Option</i>	–	0 min. 125,000 max.	Tons
	2021	–	400,000 min. 500,000 max.	Tons
	2021 <i>Option</i>	–	0 min. 125,000 max.	Tons
PERCENT OF ANNUAL REQUIREMENTS:	2019	–	34.40 %	<i>(through April)</i> <sup>4</sup>
G. CURRENT PRICE ( <i>Base</i> ):	2019	–	\$ 42.85	per Ton
	2020	–	\$ 42.85	per Ton
	2021	–	\$ 42.85	per Ton
CURRENT PRICE ( <i>Contract</i> ):	2019	–	\$ 42.85	per Ton
	2020	–	\$ 42.85	per Ton
	2021	–	\$ 42.85	per Ton

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<sup>4</sup> Calculated based on 500,000 ton maximum for 2019.

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Rhino Energy LLC and Pennyrile Energy LLC Coal Sales**

A. CONTRACT NUMBER:	BRE-19-003			
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:	2019	-	39,476 Tons	(through April)
F. ANNUAL TONNAGE REQUIREMENTS:	2019	-	100,000 min. 150,000 max.	Tons
	2020	-	100,000 min. 150,000 max.	Tons
	2021	-	350,000 min. 500,000 max.	Tons
	2022	-	200,000 min. 350,000 max.	Tons
	2023	-	200,000 min. 350,000 max.	Tons
PERCENT OF ANNUAL REQUIREMENTS:	2019	-	26.32 %	(through April) <sup>5</sup>

---

<sup>5</sup> Calculated based on 150,000 ton maximum for 2019.

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Rhino Energy LLC and Pennyrile Energy LLC Coal Sales (*continued*)**  
*(Contract Number – BRE-19-003)*

G. CURRENT PRICE ( <i>Base</i> ):	2019	–	\$ 40.67	per Ton
	2020	–	\$ 41.73	per Ton
	2021	–	\$ 42.46	per Ton
	2022	–	\$ 43.73	per Ton
	2023	–	\$ 44.71	per Ton
CURRENT PRICE ( <i>Contract</i> ):	2019	–	\$ 40.67	per Ton
	2020	–	\$ 41.73	per Ton
	2021	–	\$ 42.46	per Ton
	2022	-	\$ 43.73	per Ton
	2023	-	\$ 44.71	per Ton

**Big Rivers Electric Corporation**  
**Case No. 2019-00231**  
**Long-Term Fuel Contract Information**

**Alliance Coal, LLC and Warrior Coal, LLC**

A. CONTRACT NUMBER: BRE-19-005

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

C. PRODUCTION FACILITY: Warrior Coal Company's Cardinal Mine  
Hopkins County, Kentucky

D. METHOD OF DELIVERY: Truck

E. ACTUAL TONNAGE: 2019 - 91,066 Tons (through April)

F. ANNUAL TONNAGE REQUIREMENTS: 2019 - 225,000 min. Tons  
300,000 max.

PERCENT OF ANNUAL REQUIREMENTS: 2019 - 30.36 % (through April) <sup>6</sup>

G. CURRENT PRICE (Base):

Quality A (11,000 BTU per lb.)

2019 - \$ 44.00 per Ton

Quality B (11,500 BTU per lb.)

2019 - \$ 47.60 per Ton

CURRENT PRICE (Contract):

Quality A (11,000 BTU per lb.)

2019 - \$ 44.00 per Ton

Quality B (11,500 BTU per lb.)

2019 - \$ 47.60 per Ton

---

<sup>6</sup> Calculated based on 300,000 ton maximum for 2019.

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 3)**

- 2       **a.   *As of the last day of the review period, state the coal inventory level***  
3               *in tons, and in number of days' supply. Provide this information by*  
4               *generating station and in the aggregate.*
- 5       **b.   *Describe the criteria used to determine number of days' supply.***
- 6       **c.   *State the target coal inventory level for each generating station, and***  
7               *for the total system.*
- 8       **d.   *If actual coal inventory exceeds the target inventory by ten days'***  
9               *supply, state the reasons for the excess inventory.*
- 10       **e.**
- 11               **(1)   *State whether any significant changes in the current coal***  
12               *inventory target are expected within the next 12 months.*
- 13               **(2)   *If so, state the expected change, and the reasons for this change.***

14

15 **Response)**

- 16       **a.   As of April 30, 2019, Big Rivers' generating stations individually and in the**  
17               **aggregate had the following inventory levels and days' supply.**

18  
19

**BIG RIVERS ELECTRIC CORPORATION**

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1

<b>Total System/Station</b>	<b>Inventory Level (Tons) <sup>1</sup></b>	<b>Number of Days' Supply <sup>2</sup></b>	<b>Preceding Six-Month Operating Duration (In Days)</b>	<b>Preceding 6 Months Burn (In Tons)</b>
<b>Big Rivers Electric System</b>	569,737.05	48	100	1,198,746.56
<b>Reid Station <sup>3</sup></b>	0.00	0	0	0.00
<b>Station Two <sup>4</sup></b>	65,464.60	40	38	61,923.58
<b>Green Station <sup>5</sup></b>	196,387.09	42	164	769,896.80
<b>Coleman Station <sup>6</sup></b>	0.00	0	0	0.00
<b>Wilson Station <sup>7</sup></b>	307,885.36	81	97	366,926.18

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  
6 for each Station in days based on the projected annual fuel burn

<b>Big Rivers Electric Corporation Coal Inventory Target Ranges</b>	
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

7

8 d. The actual inventory for Wilson Station exceeds the target range by 21 days  
9 as a result of offering Wilson Station in MISO on an economic commit basis  
10 and scheduled and unscheduled maintenance outages. At various times

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1 during the period under review, Wilson Station was on planned outage for  
2 a total of 1,416.3 hours (721 hours November 2018, 695.3 hours December  
3 2018). There were also unscheduled outages on Wilson Station totaling  
4 352.5 hours during the period under review. Scheduled maintenance hours  
5 for Wilson Station totaled 72.4 hours and reserve outage hours totaled  
6 186.7 hours during the period under review.

7 e.

8 (1) Yes.

9 (2) Big Rivers, as part of its continuing solid fuel procurement and  
10 inventory management plans, reduced its solid fuel procurement to the  
11 minimum tons necessary and is nearing balance of inventory at all  
12 Stations. Big Rivers did enter into one spot contractual agreement for  
13 delivery of coal during the review period to support generation at  
14 Green Station. Big Rivers has not entered into any other spot  
15 agreements as of this filing to ensure that inventory levels are  
16 balanced to targets. Focus has been placed upon reducing inventory  
17 at the Wilson Station to return to the inventory policy levels.

18  
19

**BIG RIVERS ELECTRIC CORPORATION**  
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1

**Footnotes to table in sub-part a. above -**

- 1.- Green Station and Wilson Stations each had a pet coke inventory of zero tons as of April 30, 2019.
- 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 zero days.
- 4.- Station Two Units 1 and 2 had 246.90 unscheduled and scheduled maintenance hours. Station Two Units 1 and 2 had 6,624.10 Reserve hours during the review period. All of these hours were equivalent to 286.29 days. The duration of generation was reduced to 37.85 days. Station Two Units 1 and 2 were retired on February 1, 2019.
- 5.- Green Station Units 1 and 2 had 514.80 unscheduled and scheduled maintenance hours and 296.30 Reserve hours during the period under review. These hours were equivalent to 33.80 days. The duration of generation was reduced to 164.10 days.
- 6.- Coleman Station Units 1 and 2 were placed on Inactive Reserve Status on May 1, 2014, and Coleman Station Unit 3 was placed on Inactive Reserve Status on May 8, 2014. The duration of generation was reduced to zero days. Change in the status of these units is unknown at this time.
- 7.- Wilson Station had 424.90 scheduled and unscheduled maintenance hours and 1,416.30 planned outage hours and 186.7 Reserve hours during the period under review. These hours were equivalent to 84.50 days. The duration of generation was reduced to 96.50 days.

2

3

4 **Witness)** Mark W. McAdams

5



**BIG RIVERS ELECTRIC CORPORATION**

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

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

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

**Response)**

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

**a.**

**i.      Date solicitation was issued: April 24, 2019.**

**Date solicitation was returned: May 10, 2019.**

**ii.     Type of solicitation: Spot 2019 and term (2020 – 2024) written bid  
         solicitation (web-based distribution).**

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- 1           iii. Quantities solicited: Spot up to 150,000 tons; Term – up to 500,000  
2           tons per year.
- 3           iv. Quality of coal and petroleum coke solicited:
- 4               i.     BTU/lb.: 10,500 to 13,500;
- 5               ii.    Ash (lbs./MMBTU): 0.74 to 14.29;
- 6               iii.   Moisture (lbs./MMBTU): 8.89 to 11.90;
- 7               iv.    Sulfur (lbs. SO<sub>2</sub>): 5.50 to 6.50 (coal); and
- 8               v.     Sulfur (lbs. SO<sub>2</sub>): up to 8.50 (petroleum coke).
- 9           v. Time period over which deliveries were requested:
- 10               (a) Spot solicitation: July 1 – December 31, 2019;
- 11               (b) Term solicitation: Years 2020 through 2024.
- 12           vi. Generating units for which coal was intended include:
- 13               R. D. Green (Units 1 and 2) and D. B. Wilson (Unit 1).
- 14       b.
- 15           i. Number of vendors solicited: The coal solicitation was posted to Big  
16           Rivers' web site for supplier review, print-out, and written bid  
17           proposal submission. Big Rivers also notified coal and petroleum  
18           coke newsletters and journals for industry notification of the  
19           solicitation and its placement on the web site, referring the web  
20           address for review and download. For bid BREC 20-01, there were

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1           eighteen (18) unique page views and electronic correspondence of the  
2           bid form. Responding vendors: Seven (7) vendors replied to the spot and  
3           term bid solicitation with nine (9) varying bids.

4           ii. Selected vendors:

5           (a) Spot fuel supply:

6           [REDACTED]  
7           [REDACTED]  
8           [REDACTED]  
9           [REDACTED]  
10          [REDACTED]  
11          [REDACTED]  
12          [REDACTED]  
13          [REDACTED]  
14          [REDACTED]  
15          [REDACTED]  
16          [REDACTED]  
17          [REDACTED]  
18          [REDACTED]

19

20

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1 (b) Term fuel supply:  
2 Selected Vendor: [REDACTED]  
3 [REDACTED]  
4 [REDACTED]  
5 [REDACTED]  
6 [REDACTED]  
7 [REDACTED]  
8 [REDACTED]  
9 [REDACTED]  
10 [REDACTED]  
11 [REDACTED]  
12 [REDACTED]  
13 [REDACTED]  
14 [REDACTED]  
15 [REDACTED]  
16 Selected Vendor: [REDACTED]  
17 [REDACTED]  
18 [REDACTED]  
19 [REDACTED]  
20 [REDACTED]  
21 [REDACTED]  
22 [REDACTED]

**BIG RIVERS ELECTRIC CORPORATION**

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1

[REDACTED]

2

[REDACTED]

3

iii. The bid tabulation spreadsheet is being provided with a Petition for  
Confidential Treatment.

4

5

6

7 **Witness)** Mark W. McAdams

8

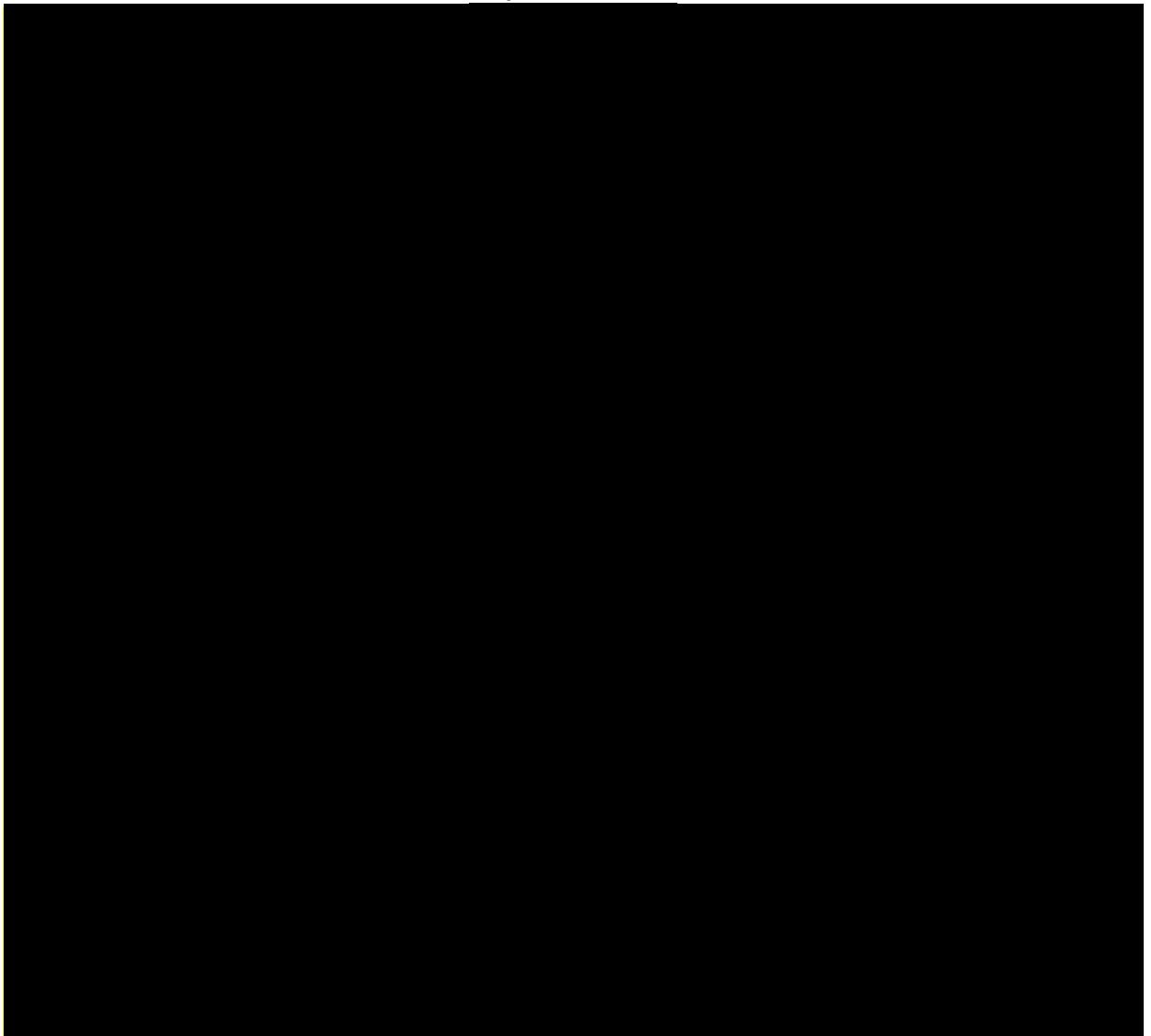
In the Matter of:

ELECTRONIC EXAMINATION OF THE	)	
APPLICATION OF THE FUEL ADJUSTMENT	)	
CLAUSE OF BIG RIVERS ELECTRIC	)	Case No.
CORPORATION FROM	)	2019-00231
NOVEMBER 1, 2018 THROUGH APRIL 30, 2019	)	

**CONFIDENTIAL RESPONSE**

to PSC 1-4.b.iii of the Commission's Request for Information  
dated August 12, 2019  
FILED: August 26, 2019

**INFORMATION SUBMITTED UNDER PETITION FOR CONFIDENTIAL  
TREATMENT**



**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 5)**      *List each oral coal-supply solicitation issued during the period*  
2 *under review.*

3

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

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

14

15 **Response)**

16      a. and b.

17              There were no oral coal-supply solicitations issued during the period from  
18              November 1, 2018, through April 30, 2019.

19

20

21 **Witness)**      Mark W. McAdams

22

**BIG RIVERS ELECTRIC CORPORATION**

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1 **Item 6)** *For the period under review, list each vendor from whom natural*  
2 *gas was purchased for generation and the quantities and the nature of each*  
3 *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 November 1, 2018, through April 30, 2019. Also on the following page  
8 please see the percentage of purchases that were either spot versus contract for the  
9 period under review in total.

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

17

18



**BIG RIVERS ELECTRIC CORPORATION**

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1

**For the Period from November 1, 2018, through April 30, 2019**

<b>Purchase Vendor</b>	<b>Fuel Type</b>	<b>MCF</b>	<b>Contract Type</b>
CIMA Energy, LTD	Natural Gas	648.00	Spot
Tenaska Marketing Ventures	Natural Gas	22,340.00	Spot

**For the Period from November 1, 2018, through April 30, 2019**

Percentage Contract	0.00 %
Percentage Spot	100.00 %
Percentage Total	100.00 %

2

3

4 **Witness)** Mark W. McAdams

5

**BIG RIVERS ELECTRIC CORPORATION**

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

5

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

9

10

11 **Witness)**     Mark W. McAdams

12

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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 its  
6 coal or natural gas purchases used for generation. Big Rivers does, however, stagger  
7 its purchases of coal to create a natural hedge on price volatility pursuant to Policy  
8 No. 111 – Hedge Policy. There have been no changes to these hedging activities since  
9 the previous FAC review.

10

11

12 **Witness)**      Mark W. McAdams

13

**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 that Big***  
8               ***Rivers took as a result of the audit.***

9  
10 **Response)**

- 11       a. Big Rivers has audited several of its coal contracts during the period under  
12       review, November 1, 2018, through April 30, 2019. There were no audits of  
13       Big Rivers' natural gas contracts or transportation contracts in those  
14       months.  
15       b.  
16               (1) Audited Contracts:  
17               Rhino Energy (BRE-18-001 and BRE-19-003) – Pennyrile's Riveredge  
18               Mine;  
19               Alliance Coal (BRE-18-003) – River View Mine;  
20               Hartshorne (BRE-19-004) – Paringa's Poplar Grove Mine; and  
21               Sun Energy (BRE-18-002) – Hilsmeier #1 and Mariah/Flint Hills.  
22               (2) Auditor: Mine Evaluations – Associated Engineers, Inc. ("Associated  
23               Engineers") and Weir International, Inc. ("Weir");

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1           Auditor: Sampling Systems – SGS North America Mineral Services  
2           ("SGS").

3           (3) Audit Results and Actions:

4           Rhino Energy (BRE-18-001 and BRE-19-003) – Associated Engineers  
5           led a mine inspection of Rhino Pennyrile's Riveredge mine in review  
6           of contractual obligations to be satisfied under these agreements.  
7           The resultant inspection indicated that the Riveredge Mine was  
8           capable of providing coal of the quantity and quality pursuant to the  
9           commitment of the two coal supply agreements. SGS performed an  
10          inspection of the Riveredge mine's coal sampling systems and found  
11          them to be in compliance and operating according to standards and  
12          contractual obligations.

13  
14          Alliance Coal (BRE-18-003) – Associated Engineers reviewed Alliance  
15          Coal's River View Mine to ensure that the mining operation could  
16          support and sustain contractual obligations for coal supply for 2019  
17          and 2020. The mine inspection and review indicated that the River  
18          View Mining operation was capable of providing coal of the quality  
19          and quantity to fulfill the contractual obligation. SGS performed an  
20          inspection of the River View Mine's coal sampling systems and found  
21          them to be in compliance and operating according to standards and  
22          contractual obligations.

23

**BIG RIVERS ELECTRIC CORPORATION**

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1           Hartshorne (BRE-19-004) – Weir conducted a due diligence review of  
2           Hartshorne/Paringa's Poplar Grove mining operation, including  
3           installation of new mine, projected quality, production estimates, *etc.*,  
4           for a new coal supply contract (BRE-19-004). The external audit  
5           provided support for the procurement decision in regard to the ability  
6           of the Poplar Grove mine to provide coal of the quality and quantity  
7           to fulfill the agreement. However, Hartshorne failed to deliver any  
8           coal to Big Rivers by the contractual deadlines, and Big Rivers  
9           exercised its contractual right to terminate the agreement. The coal  
10          supply has been replaced from another coal supplier

11  
12          Sun Energy (BRE-18-002) – Associated Engineers provided site and  
13          intermittent permit process review of Sun Energy's efforts toward  
14          permitting new property in order to fulfill its contractual obligations  
15          pursuant to this agreement. Sun Energy has failed to meet the  
16          specifications in the contract on several occasions, and Big Rivers has  
17          exercised its contractual right to suspend further shipments and to  
18          seek reasonable assurances from Sun Energy that future shipments  
19          will meet the contractual specifications.

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**FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019**  
**CASE NO. 2019-00231**

**Response to Commission's Request for Information**  
**dated August 12, 2019**

**August 26, 2019**

1

2 **Witness)** Mark W. McAdams

3

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

1 **Item 10)**

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

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

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

6 **(2) Identify the contract involved;**

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

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

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

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

15

16 **Response)**

17 **(a) Big Rivers is not currently involved in any litigation with its current or**  
18 **former fuel suppliers or transportation vendors.**

19 **(b) (1) – (5)**

20 **Not applicable.**

21 **c. Not applicable.**

22

23 **Witness) Mark W. McAdams**



**BIG RIVERS ELECTRIC CORPORATION**  
**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL**  
**ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION**  
**FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019**  
**CASE NO. 2019-00231**

**Response to Commission's Request for Information**  
**dated August 12, 2019**

**August 26, 2019**

1 **Item 11)**

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

5       **b.   *If yes:***

6               ***(1) Describe the changes;***

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

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

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

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

14  
15 **Response)**

16       **a. and b**

17               During the period under review, i.e., November 1, 2018, through April 30,  
18               2019, Big Rivers made no changes to its written policies and procedures  
19               regarding fuel procurement.

20       **c.**   In the table on the following page, Big Rivers lists its written policies and  
21               procedures regarding fuel procurement, the date of their last changes, and  
22               the proceedings in which big Rivers provided them to the Commission.

23

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

1

<b>Big Rivers Electric Corporation Policies and Procedures for Fuel Procurement</b>				
<b>Number</b>	<b>Name</b>	<b>Date Last Change</b>	<b>Provided In</b>	<b>Date Provided</b>
105	Energy-Related Transaction Authority Policy	2016-12-16	Case No. 2017-00287	2017-09-13
105	Energy-Related Transaction Authority Policy – Appendix A	2017-12-18	Case No. 2018-00221	2018-08-24
111	Hedge Policy	2018-08-10	Case No. 2019-00007	2019-02-25
120	Fuel Procurement Policy and Procedures	2018-08-10	Case No. 2019-00007	2019-02-25
121	Solid Fuel Inventory Policy	2017-08-18	Case No. 2018-00023	2018-03-01
122	Energy-Related Transaction Credit Policy	2017-11-17	Case No. 2018-00221	2018-08-24

2

3

4 **Witness)** Mark W. McAdams

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
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**August 26, 2019**

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

5

6 **Response)**

7 (a) Purchases:

8 Big Rivers has a contract with Southeastern Power Administration  
9 ("SEPA") to purchase up to 178 MWs of energy. A force majeure, previously  
10 declared by SEPA for this contract due to dam safety issues at Wolf Creek  
11 and Center Hill dams on the Cumberland System, remained in effect from  
12 November 1, 2017, through April 30, 2018. For the period under review,  
13 Big Rivers has operated under an annual contract in which we are required  
14 to schedule purchases under the terms of weekly capacity declarations.  
15 These are limited to 154 MWs due to ongoing repairs on the Center Hill  
16 dam. The repairs currently are expected to last until late 2019.

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

21

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

1 (a) Purchases:

<b>Big Rivers Electric Corporation Power Purchases November 1, 2018 through April 30, 2019</b>			
<b>Date</b>	<b>Electric Utility</b>	<b>MW Commitment</b>	<b>Purpose</b>
Nov – Dec 2018	MISO	100 MWs – On-Peak 65,600 Total	Purchases for Off-System Sales
Nov – Dec 2018	MISO	25 MWs – 7 x 24 36,600 Total	Purchases for Off-System Sales
Nov – Dec 2018	MISO	50 MWs – Off-Peak 40,400 Total	Purchases for Off-System Sales
Nov – Dec 2018	MISO	25 MWs – 7 x 24 36,600 Total	Purchases for Off-System Sales
Nov – Dec 2018	MISO	50 MWs – 7 x 24 73,200 Total	Purchases for Off-System Sales
Nov – Dec 2018	MISO	50 MWs – 7 x 24 73,200 Total	Purchases for Off-System Sales
Nov – Dec 2018	MISO	50 MWs – On-Peak 32,800 Total	Purchases for Off-System Sales
Nov – Dec 2018	MISO	50 MWs – On-Peak 32,800 Total	Purchases for Off-System Sales
Nov – Dec 2018	MISO	50 MWs – Off-Peak 40,400 Total	Purchases for Off-System Sales
Jan – Feb 2019	MISO	100 MWs – On-Peak 67,200 Total	Purchases for Off-System Sales
Jan – Feb 2019	MISO	50 MWs – On-Peak 33,600 Total	Purchases for Off-System Sales

2

3

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

1 (a) Purchases (continued) –

<b>Big Rivers Electric Corporation Power Purchases November 1, 2018 through April 30, 2019</b>			
<b>Date</b>	<b>Electric Utility</b>	<b>MW Commitment</b>	<b>Purpose</b>
Jan – Feb 2019	MISO	50 MWs – On-Peak 33,600 Total	Purchases for Off-System Sales
Jan – Feb 2019	MISO	50 MWs – On-Peak 33,600 Total	Purchases for Off-System Sales
Jan – Feb 2019	MISO	150 MWs – Off-Peak 111,600 Total	Purchases for Off-System Sales
Mar – Apr 2019	MISO	100 MWs – On-Peak 68,800 Total	Purchases for Off-System Sales
Mar – Apr 2019	MISO	50 MWs – On-Peak 34,400 Total	Purchases for Off-System Sales
Mar – Apr 2019	MISO	150 MWs – Off-Peak 116,400 Total	Purchases for Off-System Sales
Mar – Apr 2019	MISO	200 MWs – On-Peak 137,600 Total	Purchases for Off-System Sales
Nov – Dec 2018	EDF	100 MWs – On-Peak 65,600 Total	Off-System Sales Adjustments
Nov – Dec 2018	EDF	50 MWs – On-Peak 32,800 Total	Off-System Sales Adjustments
Nov – Dec 2018	AEP	50 MWs – On-Peak 32,800 Total	Off-System Sales Adjustments

2

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
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**Response to Commission's Request for Information  
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**August 26, 2019**

1 (b) Sales:

<b>Big Rivers Electric Corporation Firm Off-System Sales November 1, 2019 through April 30, 2019</b>			
<b>Date</b>	<b>Electric Utility</b>	<b>MW Commitment</b>	<b>Purpose</b>
Nov – Dec 2018	EDF	100 MWs – On-Peak 65,600 Total	Off-System Sales
Nov – Dec 2018	Morgan Stanley	25 MWs – 7 x 24 36,600 Total	Off-System Sales
Nov – Dec 2018	Morgan Stanley	50 MWs – Off-Peak 40,400 Total	Off-System Sales
Nov – Dec 2018	DTE Energy	25 MWs – 7 x 24 36,600 Total	Off-System Sales
Nov – Dec 2018	NextEra	50 MWs – 7 x 24 73,200 Total	Off-System Sales
Nov – Dec 2018	NextEra	50 MWs – 7 x 24 73,200 Total	Off-System Sales
Nov – Dec 2018	NextEra	50 MWs – On-Peak 32,800 Total	Off-System Sales
Nov – Dec 2018	NextEra	50 MWs – On-Peak 32,800 Total	Off-System Sales
Nov – Dec 2018	NextEra	50 MWs – Off-Peak 40,400 Total	Off-System Sales
Nov – Dec 2018	ADM	25 MWs – 7 x 24 36,600 Total	Off-System Sales
Nov – Dec 2018	ADM	25 MWs – 7 x 24 36,600 Total	Off-System Sales
Nov – Dec 2018	ADM	100 MWs – On-Peak 65,600 Total	Off-System Sales

2

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
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**Response to Commission's Request for Information  
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**August 26, 2019**

1 (b) Sales (continued):

<b>Big Rivers Electric Corporation Firm Off-System Sales (continued) November 1, 2018 through April 30, 2019</b>			
<b>Date</b>	<b>Electric Utility</b>	<b>MW Commitment</b>	<b>Purpose</b>
Nov 2018	OMU	604 MWs Total	Off-System Sales
Jan – Feb 2019	Macquarie	100 MWs – On-Peak 67,200 Total	Off-System Sales
Jan – Feb 2019	Macquarie	50 MWs – On-Peak 33,600 Total	Off-System Sales
Jan – Feb 2019	Macquarie	50 MWs – On-Peak 33,600 Total	Off-System Sales
Jan – Feb 2019	EDF	50 MWs – On-Peak 33,600 Total	Off-System Sales
Jan – Feb 2019	EDF	150 MWs – Off-Peak 111,600 Total	Off-System Sales
Jan – Feb 2019	ADM	50 MWs – Off-Peak 37,200 Total	Off-System Sales
Jan – Feb 2019	ADM	50 MWs – Off-Peak 37,200 Total	Off-System Sales
Mar – Apr 2019	NextEra	100 MWs – On-Peak 68,800 Total	Off-System Sales
Mar – Apr 2019	NextEra	50 MWs – On-Peak 34,400 Total	Off-System Sales

2

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
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**Response to Commission's Request for Information  
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**August 26, 2019**

1 (b) Sales (continued):

<b>Big Rivers Electric Corporation Firm Off-System Sales (continued) November 1, 2018 through April 30, 2019</b>			
<b>Date</b>	<b>Electric Utility</b>	<b>MW Commitment</b>	<b>Purpose</b>
Mar – Apr 2019	NextEra	150 MWs – Off-Peak 116,400 Total	Off-System Sales
Mar – Apr 2019	Macquarie	200 MWs – On-Peak 137,600 Total	Off-System Sales
Mar 2019	ADM	50 MWs – On-Peak 4,000 Total	Off-System Sales
Jan – Feb 2019	BP Energy	100 MWs – On-Peak	Off-System Sales 100 MW Call Option
Jan – Feb 2019	OMU	20,027 MWs Total	Off-System Sales

2

3

4 **Witness)** Mark J. Eacret

5



**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

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**August 26, 2019**

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 November 1, 2018, through April 30, 2019. Please note  
6 that certain identifying information has been redacted from these billing summaries  
7 pursuant to 807 KAR 5:001 Section 4(10), which relates to privacy protection for  
8 filings.

9

10

11 **Witness)** Nicholas R. Castlen

12

**Big Rivers Electric Corporation**  
**Monthly Billing Summary**  
**Sales to Members**  
**November 2018**

		KW Billed (a)	kWh (b)	Demand Revenue (c)	Base Energy Revenue (d)	Total Demand & Energy (e) = (c) + (d)
1	Member Billing November 2018					
2						
3	JP RURALS	105,067	52,358,355	1,450,449.94	\$ 2,356,125.98	\$ 3,806,575.92
4	KENERGY	208,063	95,311,151	2,872,309.72	4,289,001.80	7,161,311.52
5	MEADE CO. RURALS	97,839	42,092,663	1,350,667.40	1,894,169.84	3,244,837.24
6						
7	<b>TOTAL RURALS</b>	<b>410,969</b>	<b>189,762,169</b>	<b>\$ 5,673,427.06</b>	<b>\$ 8,539,297.62</b>	<b>\$ 14,212,724.68</b>
8						
9		5,050	2,080,556	54,110.75	\$ 79,165.16	\$ 133,275.91
10		68	38,926	728.62	1,481.13	2,209.75
11		36,952	20,492,738	395,940.68	779,748.68	1,175,689.36
12		2,093	558,514	22,426.50	21,251.46	43,677.96
13		10,420	3,976,763	111,650.30	151,315.83	262,966.13
14		2,760	23,280	29,573.40	885.80	30,459.20
15		800	87,774	8,572.00	3,339.80	11,911.80
16		3,849	584,995	41,242.04	22,259.06	63,501.10
17		15,000	10,750,115	160,725.00	409,041.88	569,766.88
18		60	22,341	642.90	850.08	1,492.98
19		567	281,177	6,075.41	10,698.78	16,774.19
20		101	38,140	1,082.22	1,451.23	2,533.45
21		36,418	24,464,063	390,218.87	930,857.60	1,321,076.47
22		4,845	2,054,235	51,914.18	78,163.64	130,077.82
23		3,470	1,696,455	37,181.05	64,550.11	101,731.16
24		100	0	1,071.50	-	1,071.50
25		250	31,475	2,678.75	1,197.62	3,876.37
26		7,462	4,147,082	79,955.33	157,796.47	237,751.80
27		11,943	6,369,437	127,969.25	242,357.08	370,326.33
28		2,289	1,034,345	24,526.64	39,356.83	63,883.47
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>144,497</b>	<b>78,732,411</b>	<b>\$ 1,548,285.39</b>	<b>\$ 2,995,768.24</b>	<b>\$ 4,544,053.63</b>
31						
32		100	10,078	1,071.50	383.47	1,454.97
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>144,597</b>	<b>78,742,489</b>	<b>\$ 1,549,356.89</b>	<b>\$ 2,996,151.71</b>	<b>\$ 4,545,508.60</b>
35						
36	<b>GRAND TOTAL</b>	<b>555,566</b>	<b>268,504,658</b>	<b>\$ 7,222,783.95</b>	<b>\$ 11,535,449.33</b>	<b>\$ 18,758,233.28</b>

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Attachment for Response to PSC 1-13

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**Big Rivers Electric Corporation  
Monthly Billing Summary  
Sales to Members  
November 2018**

		<b>Net Green Power (f)</b>	<b>Power Factor Penalty (g)</b>	<b>Billing Adjustment (h)</b>	<b>Fuel Adjustment Clause (FAC) (i)</b>	<b>Environmental Surcharge (ES) (j)</b>
1	Member Billing November 2018					
2						
3	JP RURALS	\$ 8.00	\$ -	\$ -	\$ 155,975.54	\$ 391,919.34
4	KENERGY	-	-	-	283,931.92	735,905.13
5	MEADE CO. RURALS	-	-	-	125,394.04	332,959.28
6						
7	<b>TOTAL RURALS</b>	<b>\$ 8.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 565,301.50</b>	<b>\$ 1,460,783.75</b>
8						
9		\$ -	\$ 7,532.65	\$ -	\$ 6,197.98	\$ 13,831.43
10		-	482.18	-	115.96	231.29
11		-	-	(81,053.62)	61,047.87	115,109.18
12		-	-	-	1,663.81	4,478.30
13		-	2,539.46	18,009.54	11,846.78	27,233.89
14		-	-	69.20	69.35	2,960.83
15		-	-	28.43	261.48	1,192.74
16		-	-	-	1,742.70	6,410.26
17		-	-	-	32,024.59	59,952.23
18		-	-	-	66.55	154.51
19		-	-	-	837.63	1,749.39
20		-	75.01	-	113.62	262.30
21		-	-	-	72,878.44	138,802.51
22		-	-	-	6,119.57	13,509.98
23		-	-	-	5,053.74	10,605.67
24		-	-	-	-	103.79
25		-	-	-	93.76	389.43
26		-	-	-	12,354.16	24,866.83
27		-	-	-	18,974.55	38,693.10
28		-	-	-	3,081.31	6,646.26
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ -</b>	<b>\$ 10,629.30</b>	<b>\$ (62,946.45)</b>	<b>\$ 234,543.85</b>	<b>\$ 467,183.92</b>
31						
32		-		-	30.02	145.40
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ -</b>	<b>\$ 10,629.30</b>	<b>\$ (62,946.45)</b>	<b>\$ 234,573.87</b>	<b>\$ 467,329.32</b>
35						
36	<b>GRAND TOTAL</b>	<b>\$ 8.00</b>	<b>\$ 10,629.30</b>	<b>\$ (62,946.45)</b>	<b>\$ 799,875.37</b>	<b>\$ 1,928,113.07</b>

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**Big Rivers Electric Corporation**  
**Monthly Billing Summary**  
**Sales to Members**  
**November 2018**

		Non-FAC PPA (k)	Revenue (l) = $\sum$ (e) to (k)	MRSN - ER Adjustment (m)	Revenue Net of MRSN Adjustments (n) = (l) + (m)
1	Member Billing November 2018				
2					
3	JP RURALS	\$ 83,354.50	\$ 4,437,833.30	\$ (114,347.63)	\$ 4,323,485.67
4	KENERGY	151,735.35	8,332,883.92	(212,356.87)	8,120,527.05
5	MEADE CO. RURALS	67,011.52	3,770,202.08	(95,272.59)	3,674,929.49
6					
7	TOTAL RURALS	\$ 302,101.37	\$ 16,540,919.30	\$ (421,977.09)	\$ 16,118,942.21
8					
9		\$ 3,312.25	\$ 164,150.22	\$ (3,134.38)	\$ 161,015.84
10		61.97	3,101.15	(54.82)	3,046.33
11		32,624.44	1,303,417.23	(27,936.22)	1,275,481.01
12		889.15	50,709.22	(947.77)	49,761.45
13		6,331.01	328,926.81	(6,101.74)	322,825.07
14		37.06	33,595.64	(425.08)	33,170.56
15		139.74	13,534.19	(216.90)	13,317.29
16		931.31	72,585.37	(1,231.73)	71,353.64
17		17,114.18	678,857.88	(14,594.80)	664,263.08
18		35.57	1,749.61	(34.48)	1,715.13
19		447.63	19,808.84	(406.93)	19,401.91
20		60.72	3,045.10	(58.67)	2,986.43
21		38,946.79	1,571,704.21	(33,542.69)	1,538,161.52
22		3,270.34	152,977.71	(3,074.37)	149,903.34
23		2,700.76	120,091.33	(2,462.29)	117,629.04
24		-	1,175.29	(14.42)	1,160.87
25		50.11	4,409.67	(72.45)	4,337.22
26		6,602.15	281,574.94	(5,871.96)	275,702.98
27		10,140.14	438,134.12	(9,088.21)	429,045.91
28		1,646.68	75,257.72	(1,526.28)	73,731.44
29					
30	Sub-Total Kenergy Industrials	\$ 125,342.00	\$ 5,318,806.25	\$ (110,796.19)	\$ 5,208,010.06
31					
32		16.04	1,646.43	(26.08)	1,620.35
33					
34	TOTAL INDUSTRIALS	\$ 125,358.04	\$ 5,320,452.68	\$ (110,822.27)	\$ 5,209,630.41
35					
36	GRAND TOTAL	\$ 427,459.41	\$ 21,861,371.98	\$ (532,799.36)	\$ 21,328,572.62

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**Big Rivers Electric Corporation  
Monthly Billing Summary  
Sales to Members  
December 2018**

		<b>KW Billed (a)</b>	<b>kWh (b)</b>	<b>Demand Revenue (c)</b>	<b>Base Energy Revenue (d)</b>	<b>Total Demand &amp; Energy (e) = (c) + (d)</b>
1	Member Billing December 2018					
2						
3	JP RURALS	108,577	56,274,266	1,498,905.49	\$ 2,532,341.97	\$ 4,031,247.46
4	KENERGY	202,653	101,461,255	2,797,624.67	4,565,756.48	7,363,381.15
5	MEADE CO. RURALS	100,860	45,512,887	1,392,372.30	2,048,079.92	3,440,452.22
6						
7	<b>TOTAL RURALS</b>	<b>412,090</b>	<b>203,248,408</b>	<b>\$ 5,688,902.46</b>	<b>\$ 9,146,178.37</b>	<b>\$ 14,835,080.83</b>
8						
9		4,891	1,921,143	52,407.07	\$ 73,099.49	\$ 125,506.56
10		68	41,191	728.62	1,567.32	2,295.94
11		39,527	20,732,172	423,531.81	788,859.14	1,212,390.95
12		1,810	503,500	19,394.15	19,158.18	38,552.33
13		10,729	4,633,179	114,961.24	176,292.46	291,253.70
14		2,760	24,318	29,573.40	925.30	30,498.70
15		800	63,352	8,572.00	2,410.54	10,982.54
16		3,786	657,724	40,566.99	25,026.40	65,593.39
17		15,000	11,138,819	160,725.00	423,832.06	584,557.06
18		60	22,709	642.90	864.08	1,506.98
19		1,109	571,617	11,882.94	21,750.03	33,632.97
20		100	41,766	1,071.50	1,589.20	2,660.70
21		36,720	25,848,886	393,454.80	983,550.11	1,377,004.91
22		4,942	2,168,446	52,953.53	82,509.37	135,462.90
23		3,515	1,341,885	37,663.23	51,058.72	88,721.95
24		100	0	1,071.50	-	1,071.50
25		250	33,591	2,678.75	1,278.14	3,956.89
26		7,031	4,297,068	75,337.17	163,503.44	238,840.61
27		11,645	6,291,514	124,776.18	239,392.11	364,168.29
28		2,069	1,017,849	22,169.34	38,729.15	60,898.49
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>146,912</b>	<b>81,350,729</b>	<b>\$ 1,574,162.12</b>	<b>\$ 3,095,395.24</b>	<b>\$ 4,669,557.36</b>
31						
32		100	12,032	1,071.50	457.82	1,529.32
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>147,012</b>	<b>81,362,761</b>	<b>\$ 1,575,233.62</b>	<b>\$ 3,095,853.06</b>	<b>\$ 4,671,086.68</b>
35						
36	<b>GRAND TOTAL</b>	<b>559,102</b>	<b>284,611,169</b>	<b>\$ 7,264,136.08</b>	<b>\$ 12,242,031.43</b>	<b>\$ 19,506,167.51</b>

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		<b>Net Green Power (f)</b>	<b>Power Factor Penalty (g)</b>	<b>Billing Adjustment (h)</b>	<b>Fuel Adjustment Clause (FAC) (i)</b>	<b>Environmental Surcharge (ES) (j)</b>
1	Member Billing December 2018					
2						
3	JP RURALS	\$ 8.00	\$ -	\$ -	\$ 12,605.44	\$ 449,389.71
4	KENERGY	-	-	-	22,727.32	820,582.40
5	MEADE CO. RURALS	-	-	-	10,194.89	383,033.48
6						
7	<b>TOTAL RURALS</b>	<b>\$ 8.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 45,527.65</b>	<b>\$ 1,653,005.59</b>
8						
9		\$ -	\$ 8,057.68	\$ -	\$ 430.34	\$ 14,024.44
10		-	342.88	-	9.23	257.75
11		-	-	(105,885.63)	4,644.01	124,393.06
12		-	-	-	112.78	4,290.84
13		-	2,614.46	15,272.71	1,037.83	32,580.00
14		-	-	71.89	5.45	3,320.63
15		-	-	318.70	14.19	1,206.54
16		-	-	-	147.33	7,261.20
17		-	-	-	2,495.10	65,752.53
18		-	53.58	-	5.09	168.32
19		-	-	-	128.04	3,769.45
20		-	85.72	-	9.36	297.52
21		-	-	-	5,790.15	154,812.13
22		-	-	-	485.73	15,155.72
23		-	-	-	300.58	9,910.83
24		-	-	-	-	116.49
25		-	-	-	7.52	436.83
26		-	-	-	962.54	26,815.26
27		-	-	-	1,409.30	40,834.72
28		-	-	-	228.00	6,821.87
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ -</b>	<b>\$ 11,154.32</b>	<b>\$ (90,222.33)</b>	<b>\$ 18,222.57</b>	<b>\$ 512,226.13</b>
31						
32		-	-	-	2.70	168.64
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ -</b>	<b>\$ 11,154.32</b>	<b>\$ (90,222.33)</b>	<b>\$ 18,225.27</b>	<b>\$ 512,394.77</b>
35						
36	<b>GRAND TOTAL</b>	<b>\$ 8.00</b>	<b>\$ 11,154.32</b>	<b>\$ (90,222.33)</b>	<b>\$ 63,752.92</b>	<b>\$ 2,165,400.36</b>

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		Non-FAC PPA (k)	Revenue (l) = $\sum$ (e) to (k)	MRSM - ER Adjustment (m)	Revenue Net of MRSM Adjustments (n) = (l) + (m)
1	Member Billing December 2018				
2					
3	JP RURALS	\$ 89,588.63	\$ 4,582,839.24	\$ (149,136.87)	\$ 4,433,702.37
4	KENERGY	161,526.32	8,368,217.19	(271,799.70)	8,096,417.49
5	MEADE CO. RURALS	72,456.52	3,906,137.11	(126,125.10)	3,780,012.01
6					
7	<b>TOTAL RURALS</b>	<b>\$ 323,571.47</b>	<b>\$ 16,857,193.54</b>	<b>\$ (547,061.67)</b>	<b>\$ 16,310,131.87</b>
8					
9		\$ 3,058.46	\$ 151,077.48	\$ (3,832.12)	\$ 147,245.36
10		65.58	2,971.38	(72.35)	2,899.03
11		33,005.62	1,268,548.01	(35,200.44)	1,233,347.57
12		801.57	43,757.52	(1,144.81)	42,612.71
13		7,376.02	350,134.72	(8,958.15)	341,176.57
14		38.71	33,935.38	(766.17)	33,169.21
15		100.86	12,622.83	(296.26)	12,326.57
16		1,047.10	74,049.02	(1,873.61)	72,175.41
17		17,733.00	670,537.69	(18,665.53)	651,872.16
18		36.15	1,770.12	(45.87)	1,724.25
19		910.01	38,440.47	(1,048.10)	37,392.37
20		66.49	3,119.79	(81.62)	3,038.17
21		41,151.43	1,578,758.62	(43,823.72)	1,534,934.90
22		3,452.17	154,556.52	(4,171.51)	150,385.01
23		2,136.28	101,069.64	(2,702.93)	98,366.71
24		-	1,187.99	(26.59)	1,161.40
25		53.48	4,454.72	(110.75)	4,343.97
26		6,840.93	273,459.34	(7,531.68)	265,927.66
27		10,016.09	416,428.40	(11,386.69)	405,041.71
28		1,620.42	69,568.78	(1,891.38)	67,677.40
29					
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ 129,510.37</b>	<b>\$ 5,250,448.42</b>	<b>\$ (143,630.28)</b>	<b>\$ 5,106,818.14</b>
31					
32		19.15	1,719.81	(42.45)	1,677.36
33					
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ 129,529.52</b>	<b>\$ 5,252,168.23</b>	<b>\$ (143,672.73)</b>	<b>\$ 5,108,495.50</b>
35					
36	<b>GRAND TOTAL</b>	<b>\$ 453,100.99</b>	<b>\$ 22,109,361.77</b>	<b>\$ (690,734.40)</b>	<b>\$ 21,418,627.37</b>

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**Big Rivers Electric Corporation  
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		<b>KW Billed (a)</b>	<b>kWh (b)</b>	<b>Demand Revenue (c)</b>	<b>Base Energy Revenue (d)</b>	<b>Total Demand &amp; Energy (e) = (c) + (d)</b>
1	<b>Member Billing January 2019</b>					
2						
3	JP RURALS	121,713	60,533,907	1,680,247.97	\$ 2,724,025.82	\$ 4,404,273.79
4	KENERGY	241,928	114,250,216	3,339,816.04	5,141,259.72	8,481,075.76
5	MEADE CO. RURALS	124,823	52,463,343	1,723,181.52	2,360,850.44	4,084,031.96
6						
7	<b>TOTAL RURALS</b>	<b>488,464</b>	<b>227,247,466</b>	<b>\$ 6,743,245.53</b>	<b>\$ 10,226,135.98</b>	<b>\$ 16,969,381.51</b>
8						
9		4,990	2,160,694	53,467.85	\$ 82,214.41	\$ 135,682.26
10		68	43,211	728.62	1,644.18	2,372.80
11		37,556	20,133,104	402,412.54	766,064.61	1,168,477.15
12		1,918	587,640	20,551.37	22,359.70	42,911.07
13		11,063	4,873,087	118,540.05	185,420.96	303,961.01
14		2,760	23,945	29,573.40	911.11	30,484.51
15		800	106,655	8,572.00	4,058.22	12,630.22
16		3,742	650,841	40,095.53	24,764.50	64,860.03
17		15,000	11,037,222	160,725.00	419,966.30	580,691.30
18		63	24,049	675.05	915.06	1,590.11
19		1,877	873,231	20,112.06	33,226.44	53,338.50
20		107	50,579	1,146.51	1,924.53	3,071.04
21		36,677	25,369,697	392,994.06	965,316.97	1,358,311.03
22		5,160	2,406,547	55,289.40	91,569.11	146,858.51
23		3,515	1,822,697	37,663.23	69,353.62	107,016.85
24		100	0	1,071.50	-	1,071.50
25		250	34,711	2,678.75	1,320.75	3,999.50
26		7,053	4,325,311	75,572.90	164,578.08	240,150.98
27		11,755	6,807,969	125,954.83	259,043.22	384,998.05
28		2,312	1,143,399	24,773.08	43,506.33	68,279.41
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>146,766</b>	<b>82,474,589</b>	<b>\$ 1,572,597.73</b>	<b>\$ 3,138,158.10</b>	<b>\$ 4,710,755.83</b>
31						
32		100	14,381	1,071.50	547.20	1,618.70
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>146,866</b>	<b>82,488,970</b>	<b>\$ 1,573,669.23</b>	<b>\$ 3,138,705.30</b>	<b>\$ 4,712,374.53</b>
35						
36	<b>GRAND TOTAL</b>	<b>635,330</b>	<b>309,736,436</b>	<b>\$ 8,316,914.76</b>	<b>\$ 13,364,841.28</b>	<b>\$ 21,681,756.04</b>

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		Net Green Power (f)	Power Factor Penalty (g)	Billing Adjustment (h)	Fuel Adjustment Clause (FAC) (i)	Environmental Surcharge (ES) (j)
1	Member Billing January 2019					
2						
3	JP RURALS	\$ 8.00	\$ -	\$ -	\$ 94,311.83	\$ 503,242.71
4	KENERGY	-	-	-	178,001.84	968,268.47
5	MEADE CO. RURALS	-	-	-	81,737.89	465,385.34
6						
7	TOTAL RURALS	\$ 8.00	\$ -	\$ -	\$ 354,051.56	\$ 1,936,896.52
8						
9		\$ -	\$ 7,446.93	\$ -	\$ 3,366.36	\$ 15,605.43
10		-	664.33	-	67.32	274.78
11		-	-	(86,878.30)	31,367.38	125,403.18
12		-	-	-	915.54	4,902.38
13		-	2,689.47	14,285.91	7,592.27	34,971.19
14		-	-	65.05	37.31	3,346.95
15		-	-	148.75	166.17	1,420.06
16		-	-	-	1,014.01	7,328.05
17		-	-	-	17,195.99	67,405.45
18		-	85.72	-	37.47	182.45
19		-	-	-	1,360.49	6,142.92
20		-	10.72	-	78.80	353.79
21		-	-	-	39,525.99	157,515.46
22		-	-	-	3,749.40	16,914.28
23		-	-	-	2,839.76	12,349.37
24		-	-	-	-	117.35
25		-	-	-	54.08	450.00
26		-	-	-	6,738.83	27,793.69
27		-	-	-	10,606.82	44,513.94
28		-	-	-	1,781.42	7,872.47
29						
30	Sub-Total Kenergy Industrials	\$ -	\$ 10,897.17	\$ (72,378.59)	\$ 128,495.41	\$ 534,863.19
31						
32		-	-	-	22.41	182.24
33						
34	TOTAL INDUSTRIALS	\$ -	\$ 10,897.17	\$ (72,378.59)	\$ 128,517.82	\$ 535,045.43
35						
36	GRAND TOTAL	\$ 8.00	\$ 10,897.17	\$ (72,378.59)	\$ 482,569.38	\$ 2,471,941.95

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**Big Rivers Electric Corporation**  
**Monthly Billing Summary**  
**Sales to Members**  
**January 2019**

		Non-FAC PPA (k)	Revenue (l) = $\sum$ (e) to (k)	MRSM - ER Adjustment (m)	Revenue Net of MRSM Adjustments (n) = (l) + (m)
1	Member Billing January 2019				
2					
3	JP RURALS	\$ 96,369.98	\$ 5,098,206.31	\$ (145,073.01)	\$ 4,953,133.30
4	KENERGY	181,886.34	9,809,232.41	(277,798.97)	9,531,433.44
5	MEADE CO. RURALS	83,521.64	4,714,676.83	(132,053.22)	4,582,623.61
6					
7	<b>TOTAL RURALS</b>	<b>\$ 361,777.96</b>	<b>\$ 19,622,115.55</b>	<b>\$ (554,925.20)</b>	<b>\$ 19,067,190.35</b>
8					
9		\$ 3,439.82	\$ 165,540.80	\$ (4,121.02)	\$ 161,419.78
10		68.79	3,448.02	(75.29)	3,372.73
11		32,051.90	1,270,421.31	(34,580.54)	1,235,840.77
12		935.52	49,664.51	(1,246.42)	48,418.09
13		7,757.95	371,257.80	(9,251.47)	362,006.33
14		38.12	33,971.94	(651.49)	33,320.45
15		169.79	14,534.99	(327.43)	14,207.56
16		1,036.14	74,238.23	(1,742.83)	72,495.40
17		17,571.26	682,864.00	(18,701.31)	664,162.69
18		38.29	1,934.04	(47.54)	1,886.50
19		1,390.18	62,232.09	(1,634.20)	60,597.89
20		80.52	3,594.87	(94.26)	3,500.61
21		40,388.56	1,595,741.04	(43,478.52)	1,552,262.52
22		3,831.22	171,353.41	(4,500.83)	166,852.58
23		2,901.73	125,107.71	(3,320.83)	121,786.88
24		-	1,188.85	(22.39)	1,166.46
25		55.26	4,558.84	(104.24)	4,454.60
26		6,885.90	281,569.40	(7,591.88)	273,977.52
27		10,838.29	450,957.10	(12,095.91)	438,861.19
28		1,820.29	79,753.59	(2,107.17)	77,646.42
29					
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ 131,299.53</b>	<b>\$ 5,443,932.54</b>	<b>\$ (145,695.57)</b>	<b>\$ 5,298,236.97</b>
31					
32		22.89	1,846.24	(42.38)	1,803.86
33					
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ 131,322.42</b>	<b>\$ 5,445,778.78</b>	<b>\$ (145,737.95)</b>	<b>\$ 5,300,040.83</b>
35					
36	<b>GRAND TOTAL</b>	<b>\$ 493,100.38</b>	<b>\$ 25,067,894.33</b>	<b>\$ (700,663.15)</b>	<b>\$ 24,367,231.18</b>

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		<b>KW Billed (a)</b>	<b>kWh (b)</b>	<b>Demand Revenue (c)</b>	<b>Base Energy Revenue (d)</b>	<b>Total Demand &amp; Energy (e) = (c) + (d)</b>
1	Member Billing February 2019					
2						
3	JP RURALS	107,564	49,251,497	1,484,921.02	\$ 2,216,317.37	\$ 3,701,238.39
4	KENERGY	202,575	91,100,711	2,796,547.88	4,099,532.00	6,896,079.88
5	MEADE CO. RURALS	91,412	40,424,744	1,261,942.66	1,819,113.48	3,081,056.14
6						
7	<b>TOTAL RURALS</b>	<b>401,551</b>	<b>180,776,952</b>	<b>\$ 5,543,411.56</b>	<b>\$ 8,134,962.85</b>	<b>\$ 13,678,374.41</b>
8						
9		5,012	2,134,211	53,703.58	\$ 81,206.73	\$ 134,910.31
10		68	37,082	728.62	1,410.97	2,139.59
11		40,311	20,056,945	431,932.37	763,166.76	1,195,099.13
12		1,680	493,110	18,001.20	18,762.84	36,764.04
13		10,918	4,026,918	116,986.37	153,224.23	270,210.60
14		2,760	21,735	29,573.40	827.02	30,400.42
15		800	62,749	8,572.00	2,387.60	10,959.60
16		3,726	595,060	39,924.09	22,642.03	62,566.12
17		15,000	10,083,577	160,725.00	383,680.10	544,405.10
18		62	24,370	664.33	927.28	1,591.61
19		1,537	691,508	16,468.96	26,311.88	42,780.84
20		100	42,454	1,071.50	1,615.37	2,686.87
21		37,022	23,692,516	396,690.73	901,500.23	1,298,190.96
22		5,443	2,202,731	58,321.75	83,813.91	142,135.66
23		3,546	1,690,332	37,995.39	64,317.13	102,312.52
24		100	-	1,071.50	-	1,071.50
25		250	31,257	2,678.75	1,189.33	3,868.08
26		7,159	3,978,887	76,708.69	151,396.65	228,105.34
27		12,137	6,140,096	130,047.96	233,630.65	363,678.61
28		2,216	1,055,825	23,744.44	40,174.14	63,918.58
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>149,847</b>	<b>77,061,363</b>	<b>\$ 1,605,610.63</b>	<b>\$ 2,932,184.85</b>	<b>\$ 4,537,795.48</b>
31						
32		100	10,117	1,071.50	384.95	1,456.45
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>149,947</b>	<b>77,071,480</b>	<b>\$ 1,606,682.13</b>	<b>\$ 2,932,569.80</b>	<b>\$ 4,539,251.93</b>
35						
36	<b>GRAND TOTAL</b>	<b>551,498</b>	<b>257,848,432</b>	<b>\$ 7,150,093.69</b>	<b>\$ 11,067,532.65</b>	<b>\$ 18,217,626.34</b>

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		<b>Net Green Power (f)</b>	<b>Power Factor Penalty (g)</b>	<b>Billing Adjustment (h)</b>	<b>Fuel Adjustment Clause (FAC) (i)</b>	<b>Environmental Surcharge (ES) (j)</b>
1	<b>Member Billing February 2019</b>					
2						
3	JP RURALS	\$ 8.00	\$ -	\$ -	\$ 16,105.24	\$ 364,772.34
4	KENERGY	-	-	-	29,789.93	679,514.76
5	MEADE CO. RURALS	-	-	-	13,218.89	303,544.93
6						
7	<b>TOTAL RURALS</b>	<b>\$ 8.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 59,114.06</b>	<b>\$ 1,347,832.03</b>
8						
9		\$ -	\$ 9,064.89	\$ -	\$ 697.89	\$ 13,358.48
10		-	310.74	-	12.13	212.45
11		-	-	(113,446.13)	6,558.62	107,645.84
12		-	203.59	-	161.25	3,623.97
13		-	1,317.95	19,693.08	1,316.80	26,709.91
14		-	-	70.34	7.11	2,925.49
15		-	-	454.51	20.52	1,064.79
16		-	-	-	194.58	6,122.35
17		-	-	-	3,297.33	54,176.99
18		-	96.44	-	7.97	157.45
19		-	-	-	226.12	4,238.77
20		-	21.43	-	13.88	266.04
21		-	-	-	7,747.45	129,125.63
22		-	653.62	-	720.29	14,065.48
23		-	-	-	552.74	10,143.97
24		-	-	-	-	102.97
25		-	-	-	10.22	377.49
26		-	-	-	1,301.10	22,654.73
27		-	-	-	2,007.81	36,081.90
28		-	-	-	345.25	6,337.30
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ -</b>	<b>\$ 11,668.66</b>	<b>\$ (93,228.20)</b>	<b>\$ 25,199.06</b>	<b>\$ 439,392.00</b>
31						
32		-	-	-	3.31	141.83
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ -</b>	<b>\$ 11,668.66</b>	<b>\$ (93,228.20)</b>	<b>\$ 25,202.37</b>	<b>\$ 439,533.83</b>
35						
36	<b>GRAND TOTAL</b>	<b>\$ 8.00</b>	<b>\$ 11,668.66</b>	<b>\$ (93,228.20)</b>	<b>\$ 84,316.43</b>	<b>\$ 1,787,365.86</b>

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**Big Rivers Electric Corporation**  
**Monthly Billing Summary**  
**Sales to Members**  
**February 2019**

		Non-FAC PPA (k)	Revenue (l) = $\sum$ (e) to (k)	MRSN - ER Adjustment (m)	Revenue Net of MRSN Adjustments (n) = (l) + (m)
1	Member Billing February 2019				
2					
3	JP RURALS	\$ 78,408.38	\$ 4,160,532.35	\$ (194,550.51)	\$ 3,965,981.84
4	KENERGY	145,032.33	7,750,416.90	(361,726.12)	7,388,690.78
5	MEADE CO. RURALS	64,356.19	3,462,176.15	(161,296.85)	3,300,879.30
6					
7	<b>TOTAL RURALS</b>	<b>\$ 287,796.90</b>	<b>\$ 15,373,125.40</b>	<b>\$ (717,573.48)</b>	<b>\$ 14,655,551.92</b>
8					
9		\$ 3,397.66	\$ 161,429.23	\$ (5,637.41)	\$ 155,791.82
10		59.03	2,733.94	(92.09)	2,641.85
11		31,930.66	1,227,788.12	(47,650.40)	1,180,137.72
12		785.03	41,537.88	(1,462.59)	40,075.29
13		6,410.85	325,659.19	(11,084.92)	314,574.27
14		34.60	33,437.96	(888.07)	32,549.89
15		99.90	12,599.32	(365.87)	12,233.45
16		947.34	69,830.39	(2,285.83)	67,544.56
17		16,053.05	617,932.47	(25,476.43)	592,456.04
18		38.80	1,892.27	(65.82)	1,826.45
19		1,100.88	48,346.61	(1,799.91)	46,546.70
20		67.59	3,055.81	(112.23)	2,943.58
21		37,718.49	1,472,782.53	(56,873.57)	1,415,908.96
22		3,506.75	161,081.80	(5,901.21)	155,180.59
23		2,691.01	115,700.24	(4,335.03)	111,365.21
24		-	1,174.47	(30.66)	1,143.81
25		49.76	4,305.55	(136.70)	4,168.85
26		6,334.39	258,395.56	(9,839.99)	248,555.57
27		9,775.03	411,543.35	(15,518.84)	396,024.51
28		1,680.87	72,282.00	(2,708.11)	69,573.89
29					
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ 122,681.69</b>	<b>\$ 5,043,508.69</b>	<b>\$ (192,265.68)</b>	<b>\$ 4,851,243.01</b>
31					
32		16.11	1,617.70	(50.09)	1,567.61
33					
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ 122,697.80</b>	<b>\$ 5,045,126.39</b>	<b>\$ (192,315.77)</b>	<b>\$ 4,852,810.62</b>
35					
36	<b>GRAND TOTAL</b>	<b>\$ 410,494.70</b>	<b>\$ 20,418,251.79</b>	<b>\$ (909,889.25)</b>	<b>\$ 19,508,362.54</b>

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**Big Rivers Electric Corporation  
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March 2019**

		<b>KW Billed (a)</b>	<b>kWh (b)</b>	<b>Demand Revenue (c)</b>	<b>Base Energy Revenue (d)</b>	<b>Total Demand &amp; Energy (e) = (c) + (d)</b>
1	<b>Member Billing March 2019</b>					
2						
3	JP RURALS	113,829	49,720,746	1,571,409.35	\$ 2,237,433.57	\$ 3,808,842.92
4	KENERGY	224,543	93,787,664	3,099,816.12	4,220,444.88	7,320,261.00
5	MEADE CO. RURALS	114,616	42,077,637	1,582,273.88	1,893,493.67	3,475,767.55
6						
7	<b>TOTAL RURALS</b>	<b>452,988</b>	<b>185,586,047</b>	<b>\$ 6,253,499.35</b>	<b>\$ 8,351,372.12</b>	<b>\$ 14,604,871.47</b>
8						
9		4,944	2,248,565	52,974.96	\$ 85,557.90	\$ 138,532.86
10		68	39,185	728.62	1,490.99	2,219.61
11		37,964	22,142,351	406,784.26	842,516.46	1,249,300.72
12		1,620	497,721	17,358.30	18,938.28	36,296.58
13		10,093	4,335,814	108,146.50	164,977.72	273,124.22
14		2,760	24,093	29,573.40	916.74	30,490.14
15		800	54,011	8,572.00	2,055.12	10,627.12
16		3,610	519,390	38,681.15	19,762.79	58,443.94
17		15,000	11,160,000	160,725.00	424,638.00	585,363.00
18		60	23,630	642.90	899.12	1,542.02
19		1,550	656,098	16,608.25	24,964.53	41,572.78
20		101	41,518	1,082.22	1,579.76	2,661.98
21		36,936	24,869,291	395,769.24	946,276.52	1,342,045.76
22		5,194	2,506,986	55,653.71	95,390.82	151,044.53
23		3,523	1,756,962	37,748.95	66,852.40	104,601.35
24		100	-	1,071.50	-	1,071.50
25		250	45,095	2,678.75	1,715.86	4,394.61
26		6,887	4,306,410	73,794.21	163,858.90	237,653.11
27		11,528	6,285,664	123,522.52	239,169.52	362,692.04
28		2,223	1,179,364	23,819.45	44,874.80	68,694.25
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>145,211</b>	<b>82,692,148</b>	<b>\$ 1,555,935.89</b>	<b>\$ 3,146,436.23</b>	<b>\$ 4,702,372.12</b>
31						
32		100	7,480	1,071.50	284.61	1,356.11
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>145,311</b>	<b>82,699,628</b>	<b>\$ 1,557,007.39</b>	<b>\$ 3,146,720.84</b>	<b>\$ 4,703,728.23</b>
35						
36	<b>GRAND TOTAL</b>	<b>598,299</b>	<b>268,285,675</b>	<b>\$ 7,810,506.74</b>	<b>\$ 11,498,092.96</b>	<b>\$ 19,308,599.70</b>

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**Big Rivers Electric Corporation  
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		<b>Net Green Power (f)</b>	<b>Power Factor Penalty (g)</b>	<b>Billing Adjustment (h)</b>	<b>Fuel Adjustment Clause (FAC) (i)</b>	<b>Environmental Surcharge (ES) (j)</b>
1	Member Billing March 2019					
2						
3	JP RURALS	\$ 8.00	\$ -	\$ -	\$ 26,352.00	\$ 308,687.08
4	KENERGY	-	-	-	49,707.46	592,973.00
5	MEADE CO. RURALS	-	-	-	22,301.15	281,141.62
6						
7	<b>TOTAL RURALS</b>	<b>\$ 8.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 98,360.61</b>	<b>\$ 1,182,801.70</b>
8						
9		\$ -	\$ 8,154.12	\$ -	\$ 1,191.74	\$ 11,301.03
10		-	385.74	-	20.77	181.60
11		-	-	(90,812.84)	11,735.45	95,064.11
12		-	-	-	263.79	2,945.65
13		-	-	11,734.11	2,297.98	22,264.24
14		-	-	67.29	12.77	2,408.50
15		-	-	384.91	28.63	847.10
16		-	-	-	275.28	4,695.83
17		-	-	-	5,914.80	48,029.47
18		-	53.58	-	12.52	125.56
19		-	567.90	-	347.73	3,388.24
20		-	75.01	-	22.00	216.87
21		-	-	-	13,180.72	109,995.88
22		-	621.47	-	1,328.70	12,330.95
23		-	-	-	931.19	8,542.91
24		-	-	-	-	84.50
25		-	-	-	23.90	354.11
26		-	-	-	2,282.40	19,462.05
27		-	-	-	3,331.40	29,653.88
28		-	-	-	625.06	5,614.61
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ -</b>	<b>\$ 9,857.82</b>	<b>\$ (78,626.53)</b>	<b>\$ 43,826.83</b>	<b>\$ 377,507.09</b>
31						
32		-	-	-	3.96	108.19
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ -</b>	<b>\$ 9,857.82</b>	<b>\$ (78,626.53)</b>	<b>\$ 43,830.79</b>	<b>\$ 377,615.28</b>
35						
36	<b>GRAND TOTAL</b>	<b>\$ 8.00</b>	<b>\$ 9,857.82</b>	<b>\$ (78,626.53)</b>	<b>\$ 142,191.40</b>	<b>\$ 1,560,416.98</b>

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		Non-FAC PPA (k)	Revenue (l) = $\sum$ (e) to (k)	MRSN - ER Adjustment (m)	Revenue Net of MRSN Adjustments (n) = (l) + (m)
1	Member Billing March 2019				
2					
3	JP RURALS	\$ 79,155.43	\$ 4,223,045.43	\$ (276,543.26)	\$ 3,946,502.17
4	KENERGY	149,309.96	8,112,251.42	(525,623.89)	7,586,627.53
5	MEADE CO. RURALS	66,987.60	3,846,197.92	(241,443.75)	3,604,754.17
6					
7	<b>TOTAL RURALS</b>	<b>\$ 295,452.99</b>	<b>\$ 16,181,494.77</b>	<b>\$ (1,043,610.90)</b>	<b>\$ 15,137,883.87</b>
8					
9		\$ 3,579.72	\$ 162,759.47	\$ (8,421.80)	\$ 154,337.67
10		62.38	2,870.10	(142.43)	2,727.67
11		35,250.62	1,300,538.06	(78,353.16)	1,222,184.90
12		792.37	40,298.39	(1,989.55)	38,308.84
13		6,902.62	316,323.17	(16,372.87)	299,950.30
14		38.36	33,017.06	(735.93)	32,281.13
15		85.99	11,973.75	(364.78)	11,608.97
16		826.87	64,241.92	(2,534.00)	61,707.92
17		17,766.72	657,073.99	(63,942.10)	593,131.89
18		37.62	1,771.30	(90.42)	1,680.88
19		1,044.51	46,921.16	(2,482.96)	44,438.20
20		66.10	3,041.96	(157.82)	2,884.14
21		39,591.91	1,504,814.27	(88,912.88)	1,415,901.39
22		3,991.12	169,316.77	(9,313.77)	160,003.00
23		2,797.08	116,872.53	(6,499.42)	110,373.11
24		-	1,156.00	(23.85)	1,132.15
25		71.79	4,844.41	(204.86)	4,639.55
26		6,855.80	266,253.36	(15,513.45)	250,739.91
27		10,006.78	405,684.10	(22,995.54)	382,688.56
28		1,877.55	76,811.47	(4,328.92)	72,482.55
29					
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ 131,645.91</b>	<b>\$ 5,186,583.24</b>	<b>\$ (323,380.51)</b>	<b>\$ 4,863,202.73</b>
31					
32		11.91	1,480.17	(47.94)	1,432.23
33					
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ 131,657.82</b>	<b>\$ 5,188,063.41</b>	<b>\$ (323,428.45)</b>	<b>\$ 4,864,634.96</b>
35					
36	<b>GRAND TOTAL</b>	<b>\$ 427,110.81</b>	<b>\$ 21,369,558.18</b>	<b>\$ (1,367,039.35)</b>	<b>\$ 20,002,518.83</b>

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**Big Rivers Electric Corporation  
Monthly Billing Summary  
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April 2019**

		<b>KW Billed (a)</b>	<b>kWh (b)</b>	<b>Demand Revenue (c)</b>	<b>Base Energy Revenue (d)</b>	<b>Total Demand &amp; Energy (e) = (c) + (d)</b>
1	<b>Member Billing April 2019</b>					
2						
3	JP RURALS	85,959	39,230,990	1,186,664.00	\$ 1,765,394.55	\$ 2,952,058.55
4	KENERGY	159,365	70,887,131	2,200,033.83	3,189,920.90	5,389,954.73
5	MEADE CO. RURALS	78,583	28,519,330	1,084,838.32	1,283,369.85	2,368,208.17
6						
7	<b>TOTAL RURALS</b>	<b>323,907</b>	<b>138,637,451</b>	<b>\$ 4,471,536.15</b>	<b>\$ 6,238,685.30</b>	<b>\$ 10,710,221.45</b>
8						
9		5,080	2,205,710	54,432.20	\$ 83,927.27	\$ 138,359.47
10		61	30,568	653.62	1,163.11	1,816.73
11		39,600	20,562,086	424,314.00	782,387.37	1,206,701.37
12		1,620	447,642	17,358.30	17,032.78	34,391.08
13		9,923	4,129,844	106,324.95	157,140.56	263,465.51
14		2,760	21,993	29,573.40	836.83	30,410.23
15		800	23,917	8,572.00	910.04	9,482.04
16		3,421	418,818	36,656.02	15,936.02	52,592.04
17		15,000	10,800,000	160,725.00	410,940.00	571,665.00
18		65	21,205	696.48	806.85	1,503.33
19		1,544	304,808	16,543.96	11,597.94	28,141.90
20		100	21,484	1,071.50	817.47	1,888.97
21		36,850	25,293,426	394,847.75	962,414.86	1,357,262.61
22		5,135	2,172,829	55,021.53	82,676.14	137,697.67
23		3,417	1,612,897	36,613.16	61,370.73	97,983.89
24		100	-	1,071.50	-	1,071.50
25		250	39,690	2,678.75	1,510.20	4,188.95
26		6,978	4,100,148	74,769.27	156,010.63	230,779.90
27		12,565	6,288,486	134,633.98	239,276.89	373,910.87
28		2,201	1,114,745	23,583.72	42,416.05	65,999.77
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>147,470</b>	<b>79,610,296</b>	<b>\$ 1,580,141.09</b>	<b>\$ 3,029,171.74</b>	<b>\$ 4,609,312.83</b>
31						
32		100	1,917	1,071.50	72.94	1,144.44
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>147,570</b>	<b>79,612,213</b>	<b>\$ 1,581,212.59</b>	<b>\$ 3,029,244.68</b>	<b>\$ 4,610,457.27</b>
35						
36	<b>GRAND TOTAL</b>	<b>471,477</b>	<b>218,249,664</b>	<b>\$ 6,052,748.74</b>	<b>\$ 9,267,929.98</b>	<b>\$ 15,320,678.72</b>

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Monthly Billing Summary  
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April 2019**

		<b>Net Green Power (f)</b>	<b>Power Factor Penalty (g)</b>	<b>Billing Adjustment (h)</b>	<b>Fuel Adjustment Clause (FAC) (i)</b>	<b>Environmental Surcharge (ES) (j)</b>
1	Member Billing April 2019					
2						
3	JP RURALS	\$ 8.00	\$ -	\$ -	\$ (2,589.25)	\$ 260,319.05
4	KENERGY	-	-	-	(4,678.55)	475,200.28
5	MEADE CO. RURALS	-	-	-	(1,882.28)	208,444.41
6						
7	<b>TOTAL RURALS</b>	<b>\$ 8.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ (9,150.08)</b>	<b>\$ 943,963.74</b>
8						
9		\$ -	\$ 7,575.51	\$ -	\$ (145.58)	\$ 12,249.25
10		-	396.46	-	(2.02)	161.05
11		-	-	(106,589.61)	(1,357.10)	97,794.03
12		-	-	-	(29.54)	3,031.44
13		-	1,189.37	11,279.92	(272.57)	23,315.87
14		-	-	63.05	(1.45)	2,631.24
15		-	-	48.04	(1.58)	822.68
16		-	-	-	(27.64)	4,600.74
17		-	-	-	(712.80)	50,833.12
18		-	150.01	-	(1.40)	132.73
19		-	-	-	(20.12)	2,472.49
20		-	21.43	-	(1.42)	166.10
21		-	-	-	(1,669.37)	120,643.46
22		-	1,896.56	-	(143.41)	12,187.71
23		-	-	-	(106.45)	8,681.42
24		-	-	-	-	92.61
25		-	-	-	(2.62)	367.28
26		-	-	-	(270.61)	20,486.96
27		-	-	-	(415.04)	33,146.31
28		-	-	-	(73.57)	5,851.35
29						
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ -</b>	<b>\$ 11,229.34</b>	<b>\$ (95,198.60)</b>	<b>\$ (5,254.29)</b>	<b>\$ 399,667.84</b>
31						
32		-	-	-	(0.13)	99.17
33						
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ -</b>	<b>\$ 11,229.34</b>	<b>\$ (95,198.60)</b>	<b>\$ (5,254.42)</b>	<b>\$ 399,767.01</b>
35						
36	<b>GRAND TOTAL</b>	<b>\$ 8.00</b>	<b>\$ 11,229.34</b>	<b>\$ (95,198.60)</b>	<b>\$ (14,404.50)</b>	<b>\$ 1,343,730.75</b>

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**April 2019**

		Non-FAC PPA (k)	Revenue (l) = $\sum$ (e) to (k)	MRSM - ER Adjustment (m)	Revenue Net of MRSM Adjustments (n) = (l) + (m)
1	Member Billing April 2019				
2					
3	JP RURALS	\$ 62,455.74	\$ 3,272,252.09	\$ (275,000.58)	\$ 2,997,251.51
4	KENERGY	112,852.31	5,973,328.77	(499,088.45)	5,474,240.32
5	MEADE CO. RURALS	45,402.77	2,620,173.07	(208,610.73)	2,411,562.34
6					
7	<b>TOTAL RURALS</b>	<b>\$ 220,710.82</b>	<b>\$ 11,865,753.93</b>	<b>\$ (982,699.76)</b>	<b>\$ 10,883,054.17</b>
8					
9		\$ 3,511.49	\$ 161,550.14	\$ (10,055.37)	\$ 151,494.77
10		48.66	2,420.88	(140.53)	2,280.35
11		32,734.84	1,229,283.53	(70,967.89)	1,158,315.64
12		712.65	38,105.63	(2,204.88)	35,900.75
13		6,574.71	305,552.81	(18,982.07)	286,570.74
14		35.01	33,138.08	(771.25)	32,366.83
15		38.08	10,389.26	(306.47)	10,082.79
16		666.76	57,831.90	(2,559.37)	55,272.53
17		17,193.60	638,978.92	(20,926.48)	618,052.44
18		33.76	1,818.43	(101.59)	1,716.84
19		485.25	31,079.52	(1,749.97)	29,329.55
20		34.20	2,109.28	(119.04)	1,990.24
21		40,267.13	1,516,503.83	(109,614.25)	1,406,889.58
22		3,459.14	155,097.67	(10,061.84)	145,035.83
23		2,567.73	109,126.59	(7,328.88)	101,797.71
24		-	1,164.11	(24.74)	1,139.37
25		63.19	4,616.80	(221.99)	4,394.81
26		6,527.44	257,523.69	(18,135.01)	239,388.68
27		10,011.27	416,653.41	(28,142.18)	388,511.23
28		1,774.67	73,552.22	(5,008.75)	68,543.47
29					
30	<b>Sub-Total Kenergy Industrials</b>	<b>\$ 126,739.58</b>	<b>\$ 5,046,496.70</b>	<b>\$ (307,422.55)</b>	<b>\$ 4,739,074.15</b>
31					
32		3.05	1,246.53	(34.87)	1,211.66
33					
34	<b>TOTAL INDUSTRIALS</b>	<b>\$ 126,742.63</b>	<b>\$ 5,047,743.23</b>	<b>\$ (307,457.42)</b>	<b>\$ 4,740,285.81</b>
35					
36	<b>GRAND TOTAL</b>	<b>\$ 347,453.45</b>	<b>\$ 16,913,497.16</b>	<b>\$ (1,290,157.18)</b>	<b>\$ 15,623,339.98</b>

Case No. 2019-00231

Attachment for Response to PSC 1-13

Witness: Nicholas R. Castlen

Page 18 of 30

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
November 2018**

<b>1</b>	<b>November 2018 - Other Sales</b>	<b>MWH</b>	<b>REVENUE</b>
<b>2</b>			
<b>3</b>	SPECIAL SALES - ENERGY		
<b>4</b>	KENERGY-DOMTAR COGEN	6,770	\$ 276,346.17
<b>5</b>	ADM INVESTOR SERVICES		\$ (455,458.00)
<b>6</b>	HENDERSON MUNICIPAL POWER & LIGHT	9,357	\$ 303,827.43
<b>7</b>	MISO	91,291	\$ 3,041,938.75
<b>8</b>	NORTHEAST POWER		\$ 19,038.04
<b>9</b>	CITY OF OWENSBORO, KY		\$ 382.63
<b>10</b>			
<b>11</b>	TOTAL SPECIAL SALES - ENERGY	107,418	\$ 3,186,075.02
<b>12</b>			
<b>13</b>	SPECIAL SALES - BILATERAL		
<b>14</b>	DTE ENERGY TRADING		\$ 567,000.00
<b>15</b>	EDF TRADING NORTH AMERICA		\$ 1,149,120.00
<b>16</b>	MORGAN STANLEY CAPITAL GROUP		\$ 1,071,960.00
<b>17</b>	NEXTERA ENERGY POWER MARKETING		\$ 4,058,040.00
<b>18</b>	MISO - CONTRA REVENUE		\$ (5,243,975.21)
<b>19</b>	AEP ENERGY PARTNERS - CONTRA REVENUE		\$ (607,320.00)
<b>20</b>	EDF TRADING NORTH AMERICA - CONTRA REVENUE		\$ (1,821,960.00)
<b>21</b>			
<b>22</b>	TOTAL SPECIAL SALES - BILATERAL		\$ (827,135.21)
<b>23</b>			

**Big Rivers Electric Corporation**  
**Monthly Billing Summary**  
**Other Sales**  
**November 2018**

<b>1</b>	<b>November 2018 - Other Sales</b>	<b>MWH</b>	<b>REVENUE</b>
<b>2</b>			
<b>3</b>	SPECIAL SALES - CAPACITY		
<b>4</b>	CITY OF HANNIBAL, MO - CAPACITY SALES		\$ 62,500.00
<b>5</b>	CITY OF KAHOKA, MO - CAPACITY SALES		\$ 500.00
<b>6</b>	CITY OF CALIFORNIA, MO - CAPACITY SALES		\$ 29,500.00
<b>7</b>	CITY OF CENTRALIA, MO - CAPACITY SALES		\$ 24,250.00
<b>8</b>	CITY OF MARCELINE, MO - CAPACITY SALES		\$ 7,750.00
<b>9</b>	DTE ENERGY TRADING - CAPACITY SALES		\$ 486,760.00
<b>10</b>	MISO - CAPACITY SALES		\$ 48,739.20
<b>11</b>	SHELL ENERGY NORTH AMERICA (US) LP - CAPACITY SALES		\$ 123,000.00
<b>12</b>			
<b>13</b>	TOTAL SPECIAL SALES - BILATERAL		\$ 782,999.20
<b>14</b>			
<b>15</b>	TOTAL	107,418	\$ 3,141,939.01

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
December 2018**

1	December 2018 - Other Sales	MWH	REVENUE
2			
3	SPECIAL SALES - ENERGY		
4	KENERGY-DOMTAR COGEN	3,614	\$ 126,353.11
5	ADM INVESTOR SERVICES		\$ (320,950.00)
6	HENDERSON MUNICIPAL POWER & LIGHT	16,169	\$ 445,915.32
7	MISO	110,178	\$ 3,447,680.16
8	NORTHEAST POWER		\$ 206,130.98
9	NORTHEAST POWER-MARGIN REFUND		\$ (1,331,924.22)
10			
11	TOTAL SPECIAL SALES - ENERGY	129,961	\$ 2,573,205.35
12			
13	SPECIAL SALES - BILATERAL		
14	DTE ENERGY TRADING		\$ 585,900.00
15	EDF TRADING NORTH AMERICA		\$ 1,094,400.00
16	MORGAN STANLEY CAPITAL GROUP		\$ 1,143,460.00
17	NEXTERA ENERGY POWER MARKETING		\$ 4,124,900.00
18	MISO - CONTRA REVENUE		\$ (5,114,581.48)
19	AEP ENERGY PARTNERS - CONTRA REVENUE		\$ (578,400.00)
20	EDF TRADING NORTH AMERICA - CONTRA REVENUE		\$ (1,735,200.00)
21			
22	TOTAL SPECIAL SALES - BILATERAL		\$ (479,521.48)
23			

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
December 2018**

<b>1</b>	<b>December 2018 - Other Sales</b>	<b>MWH</b>	<b>REVENUE</b>
<b>2</b>			
<b>3</b>	SPECIAL SALES - CAPACITY		
<b>4</b>	CITY OF HANNIBAL, MO - CAPACITY SALES		\$ 62,500.00
<b>5</b>	CITY OF KAHOKA, MO - CAPACITY SALES		\$ 500.00
<b>6</b>	CITY OF CALIFORNIA, MO - CAPACITY SALES		\$ 29,500.00
<b>7</b>	CITY OF CENTRALIA, MO - CAPACITY SALES		\$ 24,250.00
<b>8</b>	CITY OF MARCELINE, MO - CAPACITY SALES		\$ 7,750.00
<b>9</b>	DTE ENERGY TRADING - CAPACITY SALES		\$ 486,760.00
<b>10</b>	MISO - CAPACITY SALES		\$ 50,363.84
<b>11</b>	NEXTERA ENERGY POWER MARKETING - CAPACITY SALES		\$ 123,000.00
<b>12</b>			
<b>13</b>	TOTAL SPECIAL SALES - BILATERAL		\$ 784,623.84
<b>14</b>			
<b>15</b>	TOTAL	129,961	\$ 2,878,307.71

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
January 2019**

<b>1</b>	<b>January 2019 - Other Sales</b>	<b>MWH</b>	<b>REVENUE</b>
<b>2</b>			
<b>3</b>	SPECIAL SALES - ENERGY		
<b>4</b>	KENERGY-DOMTAR COGEN	3,752	\$ 134,188.45
<b>5</b>	ADM INVESTOR SERVICES		\$ 148,356.00
<b>6</b>	HENDERSON MUNICIPAL POWER & LIGHT	41,061	\$ 1,266,955.75
<b>7</b>	MISO	188,807	\$ 5,798,223.94
<b>8</b>	NORTHEAST POWER		\$ 226,516.12
<b>9</b>	CITY OF OWENSBORO, KY		\$ 28.28
<b>10</b>	CITY OF WAYNE, NE		\$ 70,585.54
<b>11</b>	CITY OF WAKEFIELD, NE		\$ 41,256.70
<b>12</b>			
<b>13</b>	TOTAL SPECIAL SALES - ENERGY	233,620	\$ 7,686,110.78
<b>14</b>			
<b>15</b>	SPECIAL SALES - BILATERAL		
<b>16</b>	MACQUARIE ENERGY		\$ 2,879,360.00
<b>17</b>	BP ENERGY		\$ 240,000.00
<b>18</b>	EDF TRADING NORTH AMERICA		\$ 2,566,240.00
<b>19</b>	NEXTERA ENERGY POWER MARKETING		\$ 995,680.00
<b>20</b>	MISO - CONTRA REVENUE		\$ (6,366,344.29)
<b>21</b>			
<b>22</b>	TOTAL SPECIAL SALES - BILATERAL		\$ 314,935.71
<b>23</b>			



**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
January 2019**

<b>1</b>	<b>January 2019 - Other Sales</b>	<b>MWH</b>	<b>REVENUE</b>
<b>2</b>			
<b>3</b>	SPECIAL SALES - CAPACITY		
<b>4</b>	CITY OF HANNIBAL, MO - CAPACITY SALES		\$ 62,500.00
<b>5</b>	CITY OF KAHOKA, MO - CAPACITY SALES		\$ 500.00
<b>6</b>	CITY OF CALIFORNIA, MO - CAPACITY SALES		\$ 29,500.00
<b>7</b>	CITY OF CENTRALIA, MO - CAPACITY SALES		\$ 24,250.00
<b>8</b>	CITY OF MARCELINE, MO - CAPACITY SALES		\$ 7,750.00
<b>9</b>	BP ENERGY		\$ 189,168.00
<b>10</b>	DTE ENERGY TRADING-CAPACITY SALES		\$ 486,760.00
<b>11</b>	MISO - CAPACITY SALES		\$ 50,363.84
<b>12</b>	NEXTERA ENERGY POWER MARKETING - CAPACITY SALES		\$ 123,000.00
<b>13</b>			
<b>14</b>	TOTAL SPECIAL SALES - BILATERAL		\$ 973,791.84
<b>15</b>			
<b>16</b>	TOTAL	233,620	\$ 8,974,838.33

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
February 2019**

1	February 2019 - Other Sales	MWH	REVENUE
2			
3	SPECIAL SALES - ENERGY		
4	KENERGY-DOMTAR COGEN	4,723	\$ 143,425.10
5	ADM INVESTOR SERVICES		\$ 237,270.40
6	BP ENERGY		\$ 189,168.00
7	HENDERSON MUNICIPAL POWER & LIGHT		\$ 4,640.39
8	MISO	309,821	\$ 7,987,792.52
9	NORTHEAST POWER		\$ 274,426.36
10	CITY OF OWENSBORO, KY		\$ 1,234.65
11	CITY OF WAYNE, NE		\$ 67,942.80
12	CITY OF WAKEFIELD, NE		\$ 41,705.84
13			
14	TOTAL SPECIAL SALES - ENERGY	314,544	\$ 8,947,606.06
15			
16	SPECIAL SALES - BILATERAL		
17	DTE ENERGY TRADING		\$ 2,617,600.00
18	EDF TRADING NORTH AMERICA		\$ 2,312,000.00
19	NEXTERA ENERGY POWER MARKETING		\$ 894,080.00
20	MISO - CONTRA REVENUE		\$ (4,651,076.22)
21			
22	TOTAL SPECIAL SALES - BILATERAL		\$ 1,172,603.78
23			

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
February 2019**

<b>1</b>	<b>February 2019 - Other Sales</b>	<b>MWH</b>	<b>REVENUE</b>
<b>2</b>			
<b>3</b>	SPECIAL SALES - CAPACITY		
<b>4</b>	CITY OF HANNIBAL, MO - CAPACITY SALES		\$ 62,500.00
<b>5</b>	CITY OF KAHOKA, MO - CAPACITY SALES		\$ 500.00
<b>6</b>	CITY OF CALIFORNIA, MO - CAPACITY SALES		\$ 29,500.00
<b>7</b>	CITY OF CENTRALIA, MO - CAPACITY SALES		\$ 24,250.00
<b>8</b>	CITY OF MARCELINE, MO - CAPACITY SALES		\$ 7,750.00
<b>9</b>	DTE ENERGY TRADING - CAPACITY SALES		\$ 486,760.00
<b>10</b>	MISO - CAPACITY SALES		\$ 76,022.52
<b>11</b>	NEXTERA ENERGY POWER MARKETING - CAPACITY SALES		\$ 123,000.00
<b>12</b>			
<b>13</b>	TOTAL SPECIAL SALES - BILATERAL		\$ 810,282.52
<b>14</b>			
<b>15</b>	TOTAL	314,544	\$ 10,930,492.36

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
March 2019**

1	March 2019 - Other Sales	MWH	REVENUE
2			
3	SPECIAL SALES - ENERGY		
4	KENERGY-DOMTAR COGEN	13,325	\$ 388,353.00
5	SOUTHERN ILLINOIS POWER COOPERATIVE	9,600	\$ 280,614.00
6	ADM INVESTOR SERVICES		\$ 7,268.50
7	HENDERSON MUNICIPAL POWER & LIGHT		\$ 3,104.43
8	MISO	264,432	\$ 7,027,371.06
9	NORTHEAST POWER		\$ 353,686.42
10	CITY OF WAYNE, NE		\$ 37,068.12
11	CITY OF WAKEFIELD, NE		\$ 35,299.63
12			
13	TOTAL SPECIAL SALES - ENERGY	287,357	\$ 8,132,765.16
14			
15	SPECIAL SALES - BILATERAL		
16	DTE ENERGY TRADING		\$ 2,288,160.00
17	NEXTERA ENERGY POWER MARKETING		\$ 4,483,140.00
18	MISO - CONTRA REVENUE		\$ (6,503,845.02)
19			
20	TOTAL SPECIAL SALES - BILATERAL		\$ 267,454.98
21			

**Big Rivers Electric Corporation**  
**Monthly Billing Summary**  
**Other Sales**  
**March 2019**

1	March 2019 - Other Sales	MWH	REVENUE
2			
3	SPECIAL SALES - CAPACITY		
4	CITY OF HANNIBAL, MO - CAPACITY SALES		\$ 62,500.00
5	CITY OF KAHOKA, MO - CAPACITY SALES		\$ 500.00
6	CITY OF CALIFORNIA, MO - CAPACITY SALES		\$ 29,500.00
7	CITY OF CENTRALIA, MO - CAPACITY SALES		\$ 24,250.00
8	CITY OF MARCELINE, MO - CAPACITY SALES		\$ 7,750.00
9	DTE ENERGY TRADING - CAPACITY SALES		\$ 486,760.00
10	MISO - CAPACITY SALES		\$ 82,617.79
11	NEXTERA ENERGY POWER MARKETING - CAPACITY SALES		\$ 123,000.00
12			
13	TOTAL SPECIAL SALES - BILATERAL		\$ 816,877.79
14			
15	TOTAL	287,357	\$ 9,217,097.93

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
April 2019**

1	April 2019 - Other Sales	MWH	REVENUE
2			
3	SPECIAL SALES - ENERGY		
4	KENERGY-DOMTAR COGEN	37,985	\$ 1,131,699.94
5	ADM INVESTOR SERVICES		\$ (1,450.00)
6	HENDERSON MUNICIPAL POWER & LIGHT		\$ 1,983.02
7	MISO	197,875	\$ 5,615,995.79
8	NORTHEAST POWER		\$ 206,600.06
9	CITY OF OWENSBORO, KY		\$ 13,324.19
10	CITY OF WAYNE, NE		\$ 22,753.87
11	CIYT OF WAKEFIELD, NE		\$ 34,199.32
12			
13	TOTAL SPECIAL SALES - ENERGY	235,860	\$ 7,025,106.19
14			
15	SPECIAL SALES - BILATERAL		
16	MACQUARIE ENERGY		\$ 2,397,120.00
17	NEXTERA ENERGY POWER MARKETING		\$ 4,321,480.00
18	MISO - CONTRA REVENUE		\$ (6,403,027.55)
19			
20	TOTAL SPECIAL SALES - BILATERAL		\$ 315,572.45
21			

**Big Rivers Electric Corporation  
Monthly Billing Summary  
Other Sales  
April 2019**

<b>1</b>	<b>April 2019 - Other Sales</b>	<b>MWH</b>	<b>REVENUE</b>
<b>2</b>			
<b>3</b>	SPECIAL SALES - CAPACITY		
<b>4</b>	CITY OF HANNIBAL, MO - CAPACITY SALES		\$ 62,500.00
<b>5</b>	CITY OF KAHOKA, MO - CAPACITY SALES		\$ 500.00
<b>6</b>	CITY OF CALIFORNIA, MO - CAPACITY SALES		\$ 29,500.00
<b>7</b>	CITY OF CENTRALIA, MO - CAPACITY SALES		\$ 24,250.00
<b>8</b>	CITY OF MARCELINE, MO - CAPACITY SALES		\$ 7,750.00
<b>9</b>	DTE ENERGY TRADING - CAPACITY SALES		\$ 486,760.00
<b>10</b>	MISO - CAPACITY SALES		\$ 79,952.70
<b>11</b>	NEXTERA ENERGY POWER MARKETING - CAPACITY SALES		\$ 123,000.00
<b>12</b>			
<b>13</b>	TOTAL SPECIAL SALES - BILATERAL		\$ 814,212.70
<b>14</b>			
<b>15</b>	TOTAL	235,860	\$ 8,154,891.34

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

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 system,*  
4 *and*

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

7 **Response)**

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

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

21 **Witnesses)** Mark J. Eacret (*a. only*) and

22 Nicholas R. Castlen (*b. only*)

**Case No. 2019-00231**

**Response to PSC 1-14**

**Witnesses: Mark J. Eacret (*a. only*) and  
Nicholas R. Castlen (*b. only*)**

**Page 1 of 1**



**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

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

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Reid Station Unit #1 - Coal - 65MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018		No Outages							Reid Unit #1 was idled April 1, 2016, and has not yet been restarted.
December 2018		No Outages							
January 2019		No Outages							
February 2019		No Outages							
March 2019		No Outages							
April 2019		No Outages							

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Reid Station Unit #2 - Combustion Turbine - Oil/Gas - 65MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018	S, A	11/13/2018 06:00	11/13/2018 14:00	11/13/2018 6:00	11/13/2018 14:20	8:00		8:20	Planned maintenance outage to calibrate the natural gas regulation valve and replace the air compressor.
December 2018		No Outages							
January 2019	F			1/30/2019 5:16	1/30/2019 7:14		1:58	1:58	Unit failed to start, due to compressor seal leaks. Repairs were made and the unit was returned to service.
February 2019		No Outages							
March 2019	S, A	3/12/2019 10:45	3/12/2019 14:45	3/12/2019 10:45	3/12/2019 14:24	4:00		3:39	Planned maintenance outage to repair leaks in gas valves.
	F			3/18/2019 4:55	3/18/2019 11:06		6:11	6:11	The unit was taken out of service during startup, due to failure to roll up past 3420 rpm. The root cause was determined to be a faulty seal oil level drain switch, which was replaced.
April 2019		No Outages							

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Henderson Station Two - Unit #1 - Coal - 153MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018		No Outages							
December 2018	F			12/15/2018 13:07	12/15/2018 21:54		8:47	8:47	The unit tripped offline, due to failure of the drive coupling on the main seal oil pump and the back-up pump not starting. The back-up pump failed to start, due to a starter contact failure.
	F			12/16/2018 0:17	12/16/2018 2:33		2:16	2:16	The unit tripped offline, due to loss of flame on A pulverizer burners caused by wet fuel during single mill operation in load ramp up.
	F			12/16/2018 3:51	12/16/2018 7:07		3:16	3:16	The unit tripped offline, due to loss of flame on A Pulverizer Burners caused by wet fuel during single mill operation in load ramp up.
January 2019	F			1/25/2019 20:48	2/1/2019 0:00		147:12	147:12	The unit was taken offline, due to a water wall tube leak near the wet bottom. No repairs were made, since the unit was scheduled to be retired on February 1, 2019, and not forecasted to be called upon for service in the few days that it would be available after the estimated repair period.
February 2019		No Outages							
March 2019		No Outages							
April 2019		No Outages							

Henderson Station Two - Unit #1 was retired on February 1, 2019

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Henderson Station Two - Unit #2 - Coal - 159MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018	F			11/29/2018 15:00	12/2/2018 14:30		71:30	71:30	The unit tripped offline, due to moisture in the exciter housing and causing the permanent magnetic generator (PMG) to become grounded. The stator components of the PMG were replaced with spare parts and the unit was returned to service.
December 2018		No Outages							
January 2019	F			1/29/2019 19:58	1/30/2019 9:52		13:54	13:54	The unit tripped offline due to high drum level. The unit was not restarted, due to the unit being scheduled to be retired on February 1, 2019, approximately 14 hours after the unit tripped.
February 2019		No Outages							
March 2019		No Outages							
April 2019		No Outages							

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Green Station Unit #1 - Coal/Pet coke - 231MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018	F			11/1/2018 0:51	11/2/2018 13:44		36:53	36:53	The unit was removed from service, due to a boiler tube leak in the 33rd leading edge tube from the east at elevation 605 ft. mean sea level (MSL) in reheat intermediate element.
	F			11/2/2018 13:44	11/2/2018 18:57		5:13	5:13	A starting failure was declared at the end of the 8 hour startup limit, due to issues with a faulty reading for the #2 main steam Stop valve linear variable differential transformer (LVDT), during start up. The LVDT failure was determined to be a loose connection between the valve and the LVDT.
	F			11/5/2018 16:44	11/7/2018 1:59		33:15	33:15	The unit was removed from service, due to a boiler tube leak in the 1st screen wall tube from the west boiler wall in the convection pass above the primary superheat elements at elevation 595 ft. MSL.
	F			11/14/2018 0:07	11/15/2018 4:30		28:23	28:23	The unit was removed from service, due to a boiler tube leak in the 18th leading edge tube from the east boiler wall in reheat intermediate element.
	F			11/27/2018 3:45	11/29/2018 8:56		53:11	53:11	The unit was removed from service, due to a boiler tube leak in the leading edge tube of the 36th bank from the east boiler wall at elevation 605 ft. MSL in reheat intermediate element. The reheat outlet element rear tubes 1, 2, 3 & 4 from the rear in the 35th bank and the 1st rear tube in the 36th bank had tubes repaired from wash-out. The 22nd leading edge tube from the east in the reheat intermediate at elev. 605 ft. MSL was cut out for sampling. A base metal repair was made on the 44th tube from the east in the primary superheat intermediate element at elev. 582 ft. MSL. A total of 7 tube dutchmen were installed during this outage.

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Green Station Unit #1 - Coal/Pet coke - 231MW Net**  
 November 1, 2018, through April 30, 2019

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	
December 2018		No Outages							
January 2019	F			1/22/2019 14:39	1/24/2019 3:25		36:46	36:46	The unit was removed from service, due to boiler tube leak in the leading edge tube of the 34th tube in the leading edge from the east at elevation 600 ft. MSL in reheat intermediate element. Tubes 47,48 and 50 from the east at elevation 585 ft. MSL in the primary superheat element had pad weld repairs made, due to tube wall thinning.
	F			1/24/2019 4:42	1/24/2019 6:47		2:05	2:05	The unit tripped on high drum level, due to one of the boiler feed pump recirculation regulators being closed at too low of a load during start up and the increase in feed water flow outpaced the feed water regulator response.
	F			1/28/2019 14:35	1/28/2019 16:25		1:50	1:50	The unit tripped on high drum level, due to a steam pressure swing in single mill operation while removing the unit from service for an issue with the A primary air fan.
February 2019		No Outages							
March 2019	F			3/26/2019 7:29	3/28/2019 15:54		56:25	56:25	The unit was removed from service, due to a broken casing weld that allowed the sector plate to fall and bind up the A air heater.
April 2019	F			4/3/2019 12:14	4/3/2019 15:31		3:17	3:17	The unit tripped, due to the loss of all flame scanners from loss of power to the system.
	F			4/23/2019 10:24	4/26/2019 7:00		68:36	68:36	The unit tripped, due to a boiler roof tube leak in the 11th tube from the east wall at elevation 613 ft. MSL.

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Green Station Unit #2 - Coal/Pet coke - 223MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018	F			11/16/2018 14:23	11/18/2018 6:11		39:48	39:48	The unit tripped, due to a water wall tube leak on the east wall approximately 15 ft. from the south burner wall at elevation 530 ft. MSL.
	F			11/18/2018 18:04	11/22/2018 2:08		80:04	80:04	The unit tripped, due to a boiler tube leak in the 11th tube in from north in the 21st bank of the secondary superheat element from the east boiler wall at elevation 610 ft. MSL.
	F			11/22/2018 2:11	11/22/2018 2:53		0:42	0:42	The unit tripped, due to high drum level during start up.
December 2018	F			12/11/2018 0:42	12/12/2018 14:50		38:08	38:08	The unit tripped, due to a boiler tube leak in leading edge tube in the 31st bank of the reheat outlet element from the east boiler wall elevation 596 ft. MSL. Ultrasonic thickness readings were taken in the reheat intermediate element and the 33rd leading edge tube was cut out for sampling at elevation 600 ft. MSL
January 2019		No Outages							
February 2019	F			2/25/2019 19:47	2/26/2019 2:00		6:13	6:13	The unit tripped, due to high drum level while putting both high pressure feed water heaters back into service.
March 2019	S, A	3/18/2019 00:00	3/19/2019 0:00	3/18/2019 0:00	3/19/2019 0:00	24:00		24:00	Planned maintenance outage to perform miscellaneous maintenance activities and the bi-annual boiler drum inspection by the insurance company.
April 2019		No Outages							



# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Coleman Station Unit #1 - Coal - 150MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018		No Outages							Coleman Unit #1 was idled on May 1, 2014, and has not yet been returned to service.
December 2018		No Outages							
January 2019		No Outages							
February 2019		No Outages							
March 2019		No Outages							
April 2019		No Outages							

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Coleman Station Unit #2 - Coal - 138MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018		No Outages							Coleman Unit #2 was idled on May 1, 2014, and has not yet been returned to service.
December 2018		No Outages							
January 2019		No Outages							
February 2019		No Outages							
March 2019		No Outages							
April 2019		No Outages							

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation  
**Coleman Station Unit #3 - Coal - 155MW Net**  
 November 1, 2018, through April 30, 2019

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	
November 2018		No Outages							Coleman Unit #3 was idled on May 8, 2014, and has not yet been returned to service.
December 2018		No Outages							
January 2019		No Outages							
February 2019		No Outages							
March 2019		No Outages							
April 2019		No Outages							

# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation

Schedule vs. Actual

**Wilson Station - Unit #1 - Coal/Pet Coke - 417MW Net**

November 1, 2018, through April 30, 2019

		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	
November 2018	S, A	11/1/2018 00:00	12/1/2018 0:00	11/1/2018 0:00	12/1/2018 0:00	721:00		721:00	Continuation of a Planned Outage
December 2018	S, A	12/1/2018 00:00	12/24/2018 12:00	12/1/2018 0:00	12/29/2018 18:19	564:00		690:19	Continuation of a Planned Outage. The reason for the extension was more extensive repairs to the steam turbine nozzle block than originally anticipated. Repairs to the nozzle block were included in the original planned outage scope.
December 2018	S, A	12/30/2018 01:50	12/30/2018 6:50	12/30/2018 1:53	12/30/2018 6:54	5:00		5:01	The unit was removed from service, to perform scheduled testing for black plant and mechanical over speed conditions.
	F			12/30/2018 18:07	1/1/2019 0:00		29:53	29:53	The unit tripped, due to boiler tube leak in the 1st external water wall tube north of IK-11 soot blower on the 11th floor at elevation 539 ft. MSL on the west side wall.
January 2019	F			1/1/2019 0:00	1/1/2019 11:17		11:17	11:17	Continuation of the water wall tube leak outage that began in December.
	F			1/3/2019 18:05	1/4/2019 7:32		13:27	13:27	The unit tripped, due to the turbine rotor position indicator reaching the trip point and a black plant condition followed when the auxiliaries power feeds did not transfer.
	F			1/5/2019 0:31	1/12/2019 12:07		179:36	179:36	The unit was removed from service, due to a boiler tube leak in the B platen superheat panel 6th from the West wall at elevation 568 ft. MSL caused by an attachment lug pulling loose.
	F			1/12/2019 16:09	1/13/2019 1:24		9:15	9:15	The unit was removed from service to apply a turbine balance shot.

**Case No. 2019-00231**

**Attachment for Response to PSC 1-15**

**Witness: Ronald D. Gregory**

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# Big Rivers Electric Corporation

## Scheduled ("S"), Actual ("A"), and Forced ("F") Outages

### November 1, 2018, through April 30, 2019

Big Rivers Electric Corporation

Schedule vs. Actual

**Wilson Station - Unit #1 - Coal/Pet Coke - 417MW Net**

November 1, 2018, through April 30, 2019

		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	
February 2019	F			2/2/2019 1:34	2/2/2019 10:39		9:05	9:05	The unit tripped during a weekly turbine bearing low oil pressure test, due to a valve leaking off pressure.
March 2019	S, A	3/9/2019 00:00	3/12/2019 0:00	3/8/2019 23:20	3/12/2019 0:43	72:00		73:23	The unit was removed from service for a planned maintenance outage to repair a boiler tube leak in a water wall tube at 7th floor level on the west wall between soot blowers IR 8 & IR 9.
	F			3/24/2019 22:00	3/27/2019 9:03		59:03	59:03	The unit was removed from service due to a boiler tube leak in a water wall tube at the northwest side of boiler near the wet bottom.
	F			3/27/2019 9:03	3/27/2019 15:12		6:09	6:09	A starting failure was declared at the end of the 8 hour startup limit, due to issues with the starting the auxiliary boiler feed pump and a turbine trip during startup.
April 2019	F			4/15/2019 3:49	4/16/2019 14:31		34:42	34:42	The unit tripped, due to #2 induced draft (ID) fan motor going to ground and the protective relay tripping the motor while #1 ID fan was already unavailable.

**Case No. 2019-00231**

**Attachment for Response to PSC 1-15**

**Witness: Ronald D. Gregory**

**Page 12 of 12**

# BIG RIVERS ELECTRIC CORPORATION

## ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019 CASE NO. 2019-00231

### Response to Commission's Request for Information dated August 12, 2019

August 26, 2019

- 1 Item 16) *For the period under review, provide the monthly capacity factor*  
2 *at which each generating unit operated.*  
3  
4 Response) Please see the table below and the footnotes on following page

Big Rivers Electric Corporation Monthly Capacity Factor by Generating Unit							
Generating Unit	Metric <sup>a</sup>	Nov-2018	Dec-2018	Jan-2019	Feb-2019	Mar-2019	Apr-2019
Station Two Unit # 1	GCF	71.5%	48.5%	10.6%	Retired February 1, 2019		
	NCF	70.4%	47.1%	9.6%			
Station Two Unit # 2	GCF	30.9%	40.2%	3.4%	Retired February 1, 2019		
	NCF	29.6%	38.6%	2.2%			
Reid Station Unit # 1 <sup>b</sup>	GCF	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	NCF	-3.8%	-3.9%	-4.0%	-4.0%	-3.8%	-3.2%
Reid Station Unit # 2 CT	GCF	0.0%	0.0%	1.5%	0.7%	0.0%	0.3%
	NCF	-0.1%	-0.1%	1.4%	0.6%	-0.1%	0.2%
Green Station Unit # 1	GCF	76.2%	98.8%	83.7%	90.7%	86.5%	74.2%
	NCF	74.6%	97.3%	81.5%	88.8%	84.7%	72.5%
Green Station Unit # 2	GCF	79.3%	87.8%	87.9%	78.8%	56.1%	87.2%
	NCF	77.8%	86.6%	86.4%	76.8%	54.6%	85.8%
Wilson Station Unit # 1	GCF	0.0%	0.7%	59.5%	90.9%	76.6%	36.3%
	NCF	-1.0%	-0.9%	58.5%	91.1%	76.4%	35.0%
Coleman Station Unit # 1 <sup>c</sup>	GCF	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	NCF	-0.3%	-0.3%	-0.3%	-0.3%	-0.2%	-0.1%
Coleman Station Unit # 2 <sup>c</sup>	GCF	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	NCF	-0.3%	-0.3%	-0.3%	-0.3%	-0.2%	-0.2%
Coleman Station Unit # 3 <sup>c</sup>	GCF	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	NCF	-0.3%	-0.3%	-0.3%	-0.3%	-0.2%	-0.1%

5

6

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

1

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

$$\begin{aligned} \text{a.-} \quad \text{NCF (Net Capacity Factor)} &= \frac{\text{Net Actual Generation} \times 100\%}{\text{PH (Period Hours)} \times \text{NMC (Net Maximum Capacity)}} \\ \text{GCF (Gross Capacity Factor)} &= \frac{\text{Gross Actual Generation} \times 100\%}{\text{PH (Period Hours)} \times \text{GMC (Gross Maximum Capacity)}} \end{aligned}$$

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

**c.-** Coleman Station Units 1 and 2 were placed in Idled Status on May 1, 2014; Coleman  
Station Unit 3 was 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  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

1 **Item 17)**

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

6       ***b. Describe the impact of these changes on Big Rivers' fuel usage.***

7  
8 **Response)**

9       a. In the period under review, November 1, 2018, through April 30, 2019, Big  
10       Rivers completed work on Wilson Unit 1 that included performing  
11       inspections and overhauls on the coal mills, coal feeders, generator, steam  
12       turbine, forced draft fans and primary air fans. Equipment component  
13       replacements included the primary air heater baskets and the boiler  
14       burners. The primary goal of the work done on Wilson Unit 1 was to return  
15       the station equipment to a state of operating at or near design conditions,  
16       after operating nine years between turbine/generator outages and four  
17       years since the last major boiler outage.

18       b. The expected heat rate improvement related to the improvements described  
19       in the response to sub-part a. is 200 BTU/kWh which is estimated to be  
20       approximately a 2% reduction in fuel usage for Wilson Unit 1.

21  
22



**BIG RIVERS ELECTRIC CORPORATION**  
**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL**  
**ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION**  
**FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019**  
**CASE NO. 2019-00231**

**Response to Commission's Request for Information**  
**dated August 12, 2019**

**August 26, 2019**

1  
2 **Witnesses)** Ronald D. Gregory (*a. only*) and  
3               Jason C. Burden (*b. only*)  
4

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

1 **Item 18)**     *State whether Big Rivers is aware of any violations of its policies*  
2 *and procedures regarding fuel procurement that occurred prior to or during*  
3 *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 November 1, 2018,  
7 through April 30, 2019. Big Rivers is also unaware of any unreported violation prior  
8 to the current period under review.

9

10

11 **Witness)**     Mark W. McAdams

12

**BIG RIVERS ELECTRIC CORPORATION**

**ELECTRONIC EXAMINATION OF THE APPLICATION OF THE FUEL  
ADJUSTMENT CLAUSE OF BIG RIVERS ELECTRIC CORPORATION  
FROM NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

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 occurred  
5 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 NOVEMBER 1, 2018 THROUGH APRIL 30, 2019  
CASE NO. 2019-00231**

**Response to Commission's Request for Information  
dated August 12, 2019**

**August 26, 2019**

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 with  
6 the Commission.

7

8

9 **Witness)** Mark W. McAdams

10