

ORIGINAL



Your Touchstone Energy® Cooperative 

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

**AN ELECTRONIC EXAMINATION OF THE)
APPLICATION OF THE FUEL ADJUSTMENT)
CLAUSE OF BIG RIVERS ELECTRIC)
CORPORATION FROM NOVEMBER 1, 2019)
THROUGH APRIL 30, 2020)**

**Case No.
2020-00250**

**Responses to Commission Staff's
Second Request for Information
dated October 9, 2020**

FILED: October 20, 2020

ORIGINAL

BIG RIVERS ELECTRIC CORPORATION

**AN ELECTRONIC EXAMINATION OF
THE APPLICATION OF THE FUEL ADJUSTMENT CLAUSE
OF BIG RIVERS ELECTRIC CORPORATION
FROM NOVEMBER 1, 2019 THROUGH APRIL 30, 2020
CASE NO. 2020-00250**

VERIFICATION

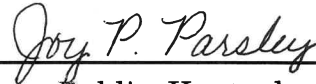
I, Mark W. McAdams, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Mark W. McAdams

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

20th SUBSCRIBED AND SWORN TO before me by Mark W. McAdams on this the
day of October, 2020.



Notary Public, Kentucky State at Large

My Commission Expires _____

Notary Public, Kentucky State-At-Large
My Commission Expires: July 10, 2022
ID: 604480

BIG RIVERS ELECTRIC CORPORATION

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VERIFICATION

I, Natalie R. Hankins, 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.

Natalie R. Hankins

Natalie R. Hankins

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

20th SUBSCRIBED AND SWORN TO before me by Natalie R. Hankins on this the
day of October, 2020.

Joy P. Parsley

Notary Public, Kentucky State at Large

My Commission Expires _____

Notary Public, Kentucky State-At-Large
My Commission Expires: July 10, 2022
ID: 604480

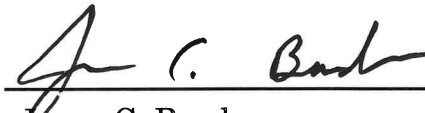


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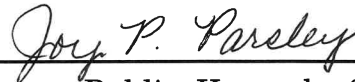
I, Jason C. Burden, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Jason C. Burden

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

20th SUBSCRIBED AND SWORN TO before me by Jason C. Burden on this the
day of October, 2020.



Notary Public, Kentucky State at Large

My Commission Expires _____

Notary Public, Kentucky State-At-Large
My Commission Expires: July 10, 2022
ID: 604480



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1 **Item 1)** *Refer to BREC's response to Staff's First Request for Information*
2 *(Staff's Request), Item 3, pages 2 of 4 and 4 of 4.*

3 *a. The status of the Reid Station does not appear to have changed. Explain*
4 *the value of the remaining coal stored at the Reid Station, and how BREC*
5 *intends to dispose of the coal.*

6 *b. Provide a status update on the retirement plans for the Coleman and Reid*
7 *Stations.*

8

9 **Response)**

10 a. In response to the Staff's Request, Item 3, Big Rivers reported that the Reid
11 Station coal inventory is zero tons. For purposes of this response to the Staff's
12 Second Request, Big Rivers assumes the Staff is referencing the value of the
13 remaining coal stored at Station Two not Reid Station. At present, the HMP&L
14 Station Two coal inventory (approximately 65,464 tons) is planned to be utilized
15 over the next six months, depending upon coal demand at the Green Station's Unit
16 1 and Unit 2 coal-fired units. Big Rivers' plan to reclaim this HMP&L Station Two
17 inventory will zero out the HMP&L Station Two coal pile, with any remaining
18 inventory being held for Green Station's coal-fired Unit 1 and Unit 2.

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1 b. Big Rivers retired Coleman Station and Reid Station Unit 1 effective September
2 30, 2020.

3

4

5 **Witness)** Mark W. McAdams

6

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1 **Item 2)** *Refer to BREC's response to Staff's Request, Item 9. Explain*
2 *whether BREC conducts any on-site reviews and inspections of mining*
3 *operations, scales, and sampling systems and whether it has uncovered or*
4 *corrected any issues with fuel suppliers or transportation providers.*

5

6 **Response)** Yes, Big Rivers does employ external mine engineering and laboratory
7 firms to assist in on-site reviews, mine inspections, along with examination of scales
8 and sampling systems. Big Rivers has worked with several mining engineers over
9 the years (Integrity Development, Weir, Boyd, *etc.*). Associated Engineers, Inc.
10 ("AEI"), 2740 North Main Street, Madisonville, KY 42431 is the engineering
11 consulting firm with which Big Rivers has most recently worked. AEI's owner and
12 Chief Executive Officer, David Lamb, and his associates, provide on-site reviews,
13 inspections of mining operations, and an oral and written report to Big Rivers of any
14 such reviews and/or findings. Prior to any mine visit, Big Rivers reviews with AEI
15 any concerns, issues, contract matters, *etc.* From time-to-time, various employees
16 of Big Rivers will also attend the on-site reviews / mine inspections.

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1 For example, Associated Engineers provided expertise in the review of Sun
2 Energy's force majeure claim of reserve depletion.¹ AEI provided review, analysis,
3 and attended meetings, along with Big Rivers' personnel, at Sun Energy's mining
4 operations. AEI's review led to Big Rivers eventually terminating the Coal Supply
5 Agreement based upon a force majeure claim of reserve depletion which was fully
6 evaluated and found to be valid. This year, for a period of time, due to COVID-19,
7 AEI was unable to visit underground mining operations. However, once AEI
8 recommenced underground mine reviews in 2020, Big Rivers engaged its services to
9 review American Consolidated Natural Resources, Inc.'s ("ACNR" *formerly* Murray /
10 Western Kentucky Consolidated Resources) Pride Mine on September 2nd and
11 Alliance Coal's River View Mine operations on September 17th.

12 Big Rivers has also employed several external laboratory firms (Mineral Labs,
13 SGS, Standard Labs, and Vanguard) to provide analysis on sampling systems. SGS
14 currently provides Big Rivers' external laboratory services. SGS visited the sampling

¹ See *In the Matter of: An Electronic Examination of the Application of the Fuel Adjustment Clause of Big Rivers Electric Corporation from May 1, 2019 through October 31, 2019* – Case No. 2020-00009; Big Rivers' response to Item 9, filed February 25, 2020, of the Commission Staff's Request for Information dated February 11, 2020.

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1 operations at Alliance's River View operations on October 7th and ACNR's Pride Mine
2 sampling system on October 14th. Big Rivers interacts with its fuel suppliers in
3 regard to scale inspections and certifications. Alliance River View recently completed
4 its scale review and the scale was certified by the Commonwealth of Kentucky's
5 Department of Agriculture's Division of Regulation and Inspection ("DRI") following
6 a physical material test at the operations. Big Rivers engages an external scale
7 professional (Premier Scale) to review and calibrate, if necessary, its truck scale
8 monthly and also has an annual review, test, and certifications from the DRI.

9 Trucking services are included in Big Rivers' contract with ACNR and have a
10 fixed rate per ton for delivery. Big Rivers schedules and works with the mine logistics
11 coordinator and the trucking firm (Jones Trucking) which is paid from the basis of
12 Big Rivers' certified scale. Big Rivers communicates almost every day with its tug
13 charter service (Evansville Marine Services) either telephonically and/or via email
14 communication in the scheduling and management of its chartered barge and tugboat
15 services. Prior to COVID-19, the parties would meet at least quarterly, if not more
16 often, to review barging forecasts, tugboat services, barge repair, *etc.*

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1

2 **Witness)** Mark W. McAdams

3

BIG RIVERS ELECTRIC CORPORATION

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- 1 Item 3) *Refer to BREC's response to Staff's Request, Item 12, pages 3 of 6*
2 *through page 6 of 6.*
- 3 a. *Explain the meaning of the term 'Off-System Adjustment.'*
4 b. *Under the MW Commitment column, explain the meaning of the*
5 *total number provided in the second row.*
6 c. *The date of both purchases and sales are imprecise and in some*
7 *cases, the only distinguishing feature appears to be the Total*
8 *number under the MW Commitment column. In the case where there*
9 *are apparently multiple transactions with the same electric utility,*
10 *explain what each individual row represents.*
11 d. *The type of information provided in the highlighted rows appears to*
12 *be quite similar to the information in the non-highlighted rows.*
13 *Provide further explanation as to what competitively sensitive*
14 *information in the highlighted rows distinguishes it from the*
15 *information provided in the non-highlighted rows and why it's*
16 *competitively sensitive.*

17

BIG RIVERS ELECTRIC CORPORATION

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October 20, 2020

1 **Response)**

2 a. "Off-System Sales Adjustment" is the term used to define a purchase made
3 to offset a hedge because Big Rivers' position has changed since that
4 original sale was made.

5 b. The total number provided in the second row of each cell under the MW
6 Commitment column is the total MWhs for the corresponding sale or
7 purchase.

8 c. Each individual row in both tables represents a separate transaction.

9 d. Any highlighted information reflects a transaction in which the term
10 extended beyond the current period under review. Unlike past
11 transactions, information about ongoing and future transactions provides
12 insight into Big Rivers' need and availability for power. The Commission
13 has regularly granted confidential treatment to this information in
14 previous FAC reviews, for the reasons stated in Big Rivers' motion for
15 confidential treatment.

16

17 **Witness)** Natalie R. Hankins

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1 **Item 4)** *Refer to BREC's response to Staff's Request, Item 16. Explain how*
2 *a generation unit can have a negative capacity factor.*

3

4 **Response)** Big Rivers reports a generating unit's generation on a net basis to the
5 system, which includes all start-up and auxiliary power, not solely the generator
6 output. When a generator is offline, the generator is using energy from the system
7 for auxiliary power. This power flow is negative because the power is flowing into
8 the generating unit. This method is necessary to ensure MISO settlements are
9 recorded to the correct generating asset and not Big Rivers' Members' load.

10

11

12 **Witness)** Jason C. Burden

13

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1 **Item 5)** *Explain whether the Black Lung Disability Trust Fund Excise*
2 *Tax has affected any existing fuel contracts for Big Rivers for the period*
3 *under review through 2020.*

4

5 **Response)** Big Rivers received notice from Murray / Western Kentucky
6 Consolidated Resources (“WKCR”) (*currently* American Consolidated Natural
7 Resources, Inc. (“ACNR”)) on January 27, 2020, of a tax-related increase from
8 \$0.50/ton to \$1.10/ton (increase of \$0.60/ton) on underground coal mined per Coal
9 Supply Agreements BRE-19-002 and BRE-20-001. Big Rivers engaged a review by
10 external mining consultant, Associated Engineers, Inc., and also reviewed the
11 contractual documents via Big Rivers’ internal legal counsel as to the validity of this
12 additional tax expense. In correspondence dated February 10, 2020, to Big Rivers,
13 Associated Engineers confirmed the change in the Excise Tax, and per Big Rivers
14 internal counsel review, the additional cost per ton was part of the agreed upon terms
15 and conditions of both Coal Supply Agreements.

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1 The increase in tax has been included in the two Coal Supply Agreements and
2 the notices, as presented by Murray / WKCR (*currently* ACNR), were filed with Big
3 Rivers' Form B filing to the Commission on March 6, 2020.

4 In preparing this response Big Rivers discovered that this additional, tax-
5 related increase was not reflected in the Long-Term Fuel Contract Information
6 provided with Big Rivers' response to Item 2 of Commission Staff's August 19, 2020,
7 Request for Information. A revised version of that attachment is provided with this
8 response. Those amounts revised to reflect the \$0.60/ton tax-related increase are
9 shaded in light green for Coal Supply Agreements BRE-19-002 and BRE-20-001.

10

11

12 **Witness)** Mark W. McAdams

13

Big Rivers Electric Corporation
Case No. 2020-00250
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 | - | 240,166 Tons <i>(through December)</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 | - | 100.07 % <i>(through December)</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. 2020-00250
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: | 2015 | – | 300,077 | Tons |
| | 2016 | – | 500,015 | Tons |
| | 2017 | – | 498,581 | Tons |
| | 2018 | – | 400,449 | Tons |
| | 2019 | – | 359,818 | Tons <i>(through December)</i> |
| F. ANNUAL TONNAGE REQUIREMENTS: | 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: | 2015 | – | 100.03 | % |
| | 2016 | – | 100.00 | % |
| | 2017 | – | 99.72 | % |
| | 2018 | – | 100.11 | % |
| | 2019 | – | 90.84 | % <i>(through December)</i> ¹ |

¹ Calculated based on 396,100 nominated tons for 2019. The parties mutually agreed to cease shipments at 90.84% of deliveries. This contract was Big Rivers' highest cost contract and the additional tonnage was not needed to support generation or inventory levels.

Big Rivers Electric Corporation
Case No. 2020-00250
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. 2020-00250
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 | - | 342,466 Tons |
| | 2020 | - | 97,744 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 | - | 97.85 % <i>(through December)</i> ² |
| | 2020 | - | 47.11 % <i>(through April)</i> ³ |
| G. CURRENT PRICE (<i>Base</i>): | 2018 | - | \$ 37.5002 per Ton |
| | 2019 | - | \$ 38.6302 per Ton (<i>Jan. - Aug.</i>) |
| <i>Assigned Price</i> | 2019 | - | \$ 36.2710 per Ton (<i>Sept. - Dec.</i>) |
| <i>Assigned Price</i> | 2020 | - | \$ 37.4302 per Ton |
| CURRENT PRICE (<i>Contract</i>): | 2018 | - | \$ 37.5002 per Ton |
| | 2019 | - | \$ 38.6302 per Ton (<i>Jan. - Aug.</i>) |
| <i>Assigned Price</i> | 2019 | - | \$ 36.2710 per Ton (<i>Sept. - Dec.</i>) |
| <i>Assigned Price</i> | 2020 | - | \$ 37.4302 per Ton |

² Calculated based on 350,000 ton maximum for 2019 per assignment. Assigned to Alliance Coal on September 6, 2019. Referenced following assignment as Rhino/Alliance (BRE-18-001A).

³ Calculated based on 200,000 nominated tons for 2020 *plus* 7,534 tons carryover from 2019 equaling 207,534 tons. 97,744 tons *divided by* 207,534 tons = 47.11%.

Big Rivers Electric Corporation
Case No. 2020-00250
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: | Hilsmeyer #1 Surface Mine Pike and Dubois Counties, Indiana | | | |
| D. METHOD OF DELIVERY: | Barge | | | |
| E. ACTUAL TONNAGE: | 2018 | - | 83,828 | Tons |
| | 2019 | - | 61,786 | Tons (through December) |
| F. ANNUAL TONNAGE REQUIREMENTS: | 2018 | - | 80,000 | Tons (Amendment One) |
| | 2019 | - | 80,000 | Tons ⁴ |
| | 2020 | - | 240,000 | Tons Contract |
| | 2021 | - | 220,000 | Tons terminated ⁴ |
| PERCENT OF ANNUAL REQUIREMENTS: | 2018 | - | 104.79 | % |
| | 2019 | - | 77.23 | % (through December) |
| G. CURRENT PRICE (Base): | <u>Quality A (11,200 BTU per lb.)</u> | | | |
| | 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 |
| | <u>Quality B (10,600 BTU per lb.)</u> | | | |
| | 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): | <u>Quality A (11,200 BTU per lb.)</u> | | | |
| | 2018 | - | \$ 35.0000 | per Ton |
| | 2019 | - | \$ 35.0000 | per Ton |
| | <u>Quality B (10,600 BTU per lb.)</u> | | | |
| | 2018 | - | \$ 32.8791 | per Ton |
| | 2019 | - | \$ 32.8791 | per Ton |

⁴ Big Rivers provided a quality suspension notice on August 15, 2019. Big Rivers provided a contract termination notice on February 13, 2020.

Big Rivers Electric Corporation
Case No. 2020-00250
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 | – | 676,162 Tons |
| | 2020 | – | 102,397 Tons <i>(through April)</i> |
| F. ANNUAL TONNAGE REQUIREMENTS: | 2018 | – | 585,000 Tons <i>(effective date – February 12, 2018)</i> |
| | 2019 | – | 300,000 min. Tons 800,000 max. |
| | 2020 | – | 300,000 min. Tons 800,000 max. |
| PERCENT OF ANNUAL REQUIREMENTS: | 2018 | – | 101.00 % |
| | 2019 | – | 100.17 % <i>(through December)</i> ⁵ |
| | 2020 | – | 24.09 % <i>(through April)</i> ⁶ |
| G. CURRENT PRICE (<i>Base</i>): | 2018 | – | \$ 36.5010 per Ton |
| | 2019 | – | \$ 37.7499 per Ton |
| | 2020 | – | \$ 39.0011 per Ton |
| CURRENT PRICE (<i>Contract</i>): | 2018 | – | \$ 36.5010 per Ton |
| | 2019 | – | \$ 37.7499 per Ton |

⁵ Calculated based on 675,000 nominated tons for 2019.

⁶ Calculated based on 425,000 nominated tons for 2020.

Big Rivers Electric Corporation
Case No. 2020-00250
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: | Truck and/or barge | | | |
| E. ACTUAL TONNAGE: | 2019 | – | 456,313 | Tons |
| | 2020 | – | 159,008 | 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 | – | 0 min. 125,000 max. | Tons |
| | <i>Option</i> | | | |
| | 2021 | – | 400,000 min. 500,000 max. | Tons |
| | 2021 | – | 0 min. 125,000 max. | Tons |
| | <i>Option</i> | | | |
| PERCENT OF ANNUAL REQUIREMENTS: | 2019 | – | 101.40 % | ⁷ |
| | 2020 | | 37.41 % | <i>(through April)</i> ⁸ |
| G. CURRENT PRICE (<i>Base</i>): | 2019 | – | \$ 42.85 | per Ton |
| | 2020 | – | \$ 43.45 | per Ton |
| | 2021 | – | \$ 42.85 | per Ton |
| CURRENT PRICE (<i>Contract</i>): | 2019 | – | \$ 42.85 | per Ton |
| | 2020 | – | \$ 43.45 | per Ton |
| | 2021 | – | \$ 42.85 | per Ton |

⁷ Calculated based on 450,000 nominated tons for 2019. No Option tons nominated.

⁸ Calculated based on 425,000 nominated tons for 2020. No Option tons nominated.

Big Rivers Electric Corporation
Case No. 2020-00250
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 | - | 69,186 Tons | <i>(through December)</i> |
| | 2020 | - | 120,018 Tons | <i>(through April)</i> |
| F. ANNUAL TONNAGE REQUIREMENTS: | 2019 | - | 100,000 min. Tons 150,000 max. | |
| | 2020 | - | 100,000 min. Tons 150,000 max. | |
| | 2021 | - | 350,000 min. Tons 500,000 max. | |
| | 2022 | - | 200,000 min. Tons 350,000 max. | |
| | 2023 | - | 200,000 min. Tons 350,000 max. | |
| PERCENT OF ANNUAL REQUIREMENTS: | 2019 | - | 46.12 % | <i>(through December)</i> ⁹ |
| | 2020 | - | 61.86 % | <i>(through April)</i> ¹⁰ |

⁹ Calculated based on 150,000 ton maximum for 2019 per assignment. Assigned to Alliance Coal on September 6, 2019. Referenced following assignment as Rhino/Alliance (BRE-19-003A).

¹⁰ Calculated based on 112,500 nominated tons for 2020 *plus* 81,499 tons carryover from 2019 equaling 193,999 tons. 120,018 tons *divided by* 193,999 tons = 61.86%.

Big Rivers Electric Corporation
Case No. 2020-00250
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 (<i>Jan. – Aug.</i>) |
| <i>Assigned Price</i> | 2019 | – | \$ 38.31 | per Ton (<i>Sept. – Dec.</i>) |
| <i>Assigned Price</i> | 2020 | – | \$ 39.37 | per Ton |
| | 2021 | – | \$ 40.10 | per Ton |
| | 2022 | – | \$ 41.37 | per Ton |
| | 2023 | – | \$ 42.35 | per Ton |
| CURRENT PRICE (<i>Contract</i>): | 2019 | – | \$ 40.67 | per Ton (<i>Jan. – Aug.</i>) |
| <i>Assigned Price</i> | 2019 | – | \$ 38.31 | per Ton (<i>Sept. – Dec.</i>) |
| <i>Assigned Price</i> | 2020 | – | \$ 39.37 | per Ton |

Big Rivers Electric Corporation
Case No. 2020-00250
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 - 241,538 Tons <i>(through December)</i> |
| F. ANNUAL TONNAGE REQUIREMENTS: | 2019 - 225,000 min. Tons 300,000 max. |
| PERCENT OF ANNUAL REQUIREMENTS: | 2019 - 99.09 % <i>(through December)</i> ¹¹ |
| G. CURRENT PRICE (<i>Base</i>): | <u>Quality A (11,000 BTU per lb.)</u> 2019 - \$ 44.00 per Ton |
| | <u>Quality B (11,500 BTU per lb.)</u> 2019 - \$ 47.60 per Ton |
| CURRENT PRICE (<i>Contract</i>): | <u>Quality A (11,000 BTU per lb.)</u> 2019 - \$ 44.00 per Ton |
| | <u>Quality B (11,500 BTU per lb.)</u> 2019 - \$ 47.60 per Ton |

¹¹ Calculated based on 243,750 nominated tons for 2019.

Big Rivers Electric Corporation
Case No. 2020-00250
Long-Term Fuel Contract Information

**Western Kentucky Consolidated Resources, LLC (“WKCC”) and
Muhlenberg County Cola Company, LLC (“MCCC”)**

A. CONTRACT NUMBER: BRE-20-001

B. SUPPLIER’S NAME / ADDRESS: Western Kentucky Consolidated Resources, LLC
Muhlenberg County Coal Company, LLC
46226 National Road
St. Clairsville, OH 43950

C. PRODUCTION FACILITY: WKCC Genesis Mine
WKCC Pride Mine

D. METHOD OF DELIVERY: Truck and/or barge

E. ACTUAL TONNAGE: 2020 – 125,583 Tons *(through April)*

F. ANNUAL TONNAGE REQUIREMENTS:

| | | | |
|---------------|---|--------------|------|
| 2020 | – | 300,000 min. | Tons |
| | | 400,000 max. | |
| 2020 | – | 0 min. | Tons |
| <i>Option</i> | | 100,000 max. | |
| 2021 | – | 300,000 min. | Tons |
| | | 400,000 max. | |
| 2021 | – | 0 min. | Tons |
| <i>Option</i> | | 100,000 max. | |
| 2022 | | 300,000 min. | |
| | | 400,000 max. | |
| 2022 | | 0 min. | |
| <i>Option</i> | | 100,000 max. | |
| 2023 | | 300,000 min. | |
| | | 400,000 max. | |
| 2023 | | 0 min. | |
| <i>Option</i> | | 100,000 max. | |

