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February 27, 2019

RECEIVED

VIA FedEx OVERNIGHT DELIVERY

FEB 28 2019

Ms. Gwen R. Pinson
Executive Director
Public Service Commission of Kentucky
211 Sower Boulevard
Frankfort, KY 40601

PUBLIC SERVICE
COMMISSION

RE: *In the Matters of: Big Rivers Electric Corporation's Annual Financial and Statistical Report Pursuant to Administrative Case No. 387 – A Review of the Adequacy of Kentucky's Generation Capacity and Transmission System*

Dear Ms. Pinson:

Enclosed for filing are an original and five (5) copies of Big Rivers Electric Corporation's supplemental information to its annual financial and statistical report required by the Public Service Commission's orders in Administrative Case No. 387. Big Rivers is providing an original and ten (10) copies of a petition for confidential treatment.

Please call if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "TK" or "Tyson Kamuf".

Tyson Kamuf
Corporate Attorney,
Big Rivers Electric Corporation
tyson.kamuf@bigrivers.com

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FEB 28 2019

PUBLIC SERVICE
COMMISSION



Your Touchstone Energy® Cooperative 

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matters of:

A REVIEW OF THE ADEQUACY OF)	Administrative
KENTUCKY'S GENERATION CAPACITY)	Case No.
AND TRANSMISSION SYSTEM)	387

**SUPPLEMENTAL INFORMATION PROVIDED WITH
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT
PURSUANT TO ADMINISTRATIVE CASE NO. 387**

FILED: February 28, 2019

ORIGINAL

BIG RIVERS ELECTRIC CORPORATION

**SUPPLEMENTAL INFORMATION PROVIDED WITH
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PURSUANT TO ADMINISTRATIVE CASE NO. 387 –
A REVIEW OF THE ADEQUACY OF KENTUCKY'S GENERATION
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**Response to Commission Staff's Information Request
as set forth in
Appendix G of the Commission's Order dated December 20, 2001**

February 28, 2019

1 **Item 1)** *Actual and weather-normalized energy sales for the just*
2 *completed calendar year. Sales should be disaggregated into native load*
3 *sales and off-system sales. Off-system sales should be further*
4 *disaggregated into full requirements sales, firm capacity sales, and non-*
5 *firm or economy energy sales. Off-system sales should be further*
6 *disaggregated to identify separately all sales where the utility acts as a*
7 *reseller, or transporter, in a power transaction between two or more other*
8 *parties.*

9
10 **Response)** The information originally requested in the above item of Appendix G
11 of the Commission's Order dated December 20, 2001, in Administrative Case No.
12 387, ("the December 2001 Order in Admin. Case 387") is no longer required
13 pursuant to Ordering Paragraph No. 5 of the Commission's Order dated March 29,
14 2004, amending the December 2001 Order in Admin Case 387.

15
16
17 **Respondent)** Marlene S. Parsley

18

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 2)** *A summary of monthly power purchases for the just completed*
2 *calendar year. Purchases should be disaggregated into firm capacity*
3 *purchases required to serve native load, economy energy purchases, and*
4 *purchases where the utility acts as a reseller, or transporter, in a power*
5 *transaction between two or more other parties.*

6
7 **Response)** The information originally requested in the above item of Appendix G
8 of the December 2001 Order in Admin. Case 387 is no longer required pursuant to
9 Ordering Paragraph No. 5 of the Commission's Order dated March 29, 2004,
10 amending the December 2001 Order in Admin Case 387.

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13 **Respondent)** Marlene S. Parsley

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February 28, 2019

1 **Item 3)** *Actual and weather-normalized monthly coincident peak*
2 *demands for the just completed calendar year. Demands should be*
3 *disaggregated into*

4

5 *a. native load demand (firm and non-firm) and*

6 *b. off-system demand (firm and non-firm).*

7

8 **Response)** Table 3-G shows the actual and weather normalized native load
9 demand and the off-system coincident demand for 2018. Native load is comprised
10 of the rural and industrial load of Big Rivers' Members. Big Rivers sells its power
11 into the Midcontinent Independent System Operator, Inc. ("MISO") market and,
12 therefore, the off-system sales cannot be weather normalized. Off-system demand
13 is comprised of three components: (i) forward bilateral sales which are
14 characterized as firm, (ii) sales to Nebraska customers which are served in the
15 SPP market, and (iii) off-system sales due to generation clearing in the MISO
16 market which is in excess of Big Rivers' load and Nebraska sales. These sales are
17 not "non-firm," rather they are a result of Big Rivers' compliance with MISO tariff
18 obligations.

19

20 **Respondent)** Marlene S. Parsley

21

Big Rivers Electric Corporation

Administrative Case No. 387

Table 3-G

Native Peak and Off-System Sales

Weather Normalized

Total Native Load and Off-System Coincident Peak Demands ¹ (MW)

Month	Peak Date	Native Load		Firm ²	Off-System Sales		
		All Firm Peak Demand	Weather Normalized		Off-System Demand	Sales to MISO ³	Sales in SPP ⁴
Jan-18	01/04/18	693	669	250	131	11	0
Feb-18	02/02/18	575	559	150	202	13	0
Mar-18	03/14/18	486	513	150	0	9	0
Apr-18	04/17/18	465	488	150	398	8	0
May-18	05/14/18	549	519	150	364	6	0
Jun-18	06/18/18	601	597	150	255	8	0
Jul-18	07/05/18	626	605	150	218	8	0
Aug-18	08/28/18	609	609	150	373	4	0
Sep-18	09/04/18	596	573	150	288	10	0
Oct-18	10/05/18	524	454	150	0	12	0
Nov-18 ⁵	11/27/18	549	475	150	0	12	0
Dec-18 ⁵	12/11/18	544	604	150	0	9	0

Notes -

- 1.- Native Load includes Transmission Losses
- 2.- Off System Firm Sales are Pre-arranged bilateral sales, mostly occurring at MISO's Indiana Hub
- 3.- Sales to MISO at generator nodes
- 4.- Off System Sales to Nebraska customers in SPP
- 5.- November and December off-system sales subject to slight change due to meter corrections

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February 28, 2019

1 **Item 4)** *Load shape curves that show actual peak demands and*
2 *weather-normalized peak demands (native load demand and total*
3 *demand) on a monthly basis for the just completed calendar year.*

4

5 **Response)** Graph 4-G shows the monthly native load demand with the monthly
6 weather normalized native load demand for 2018.

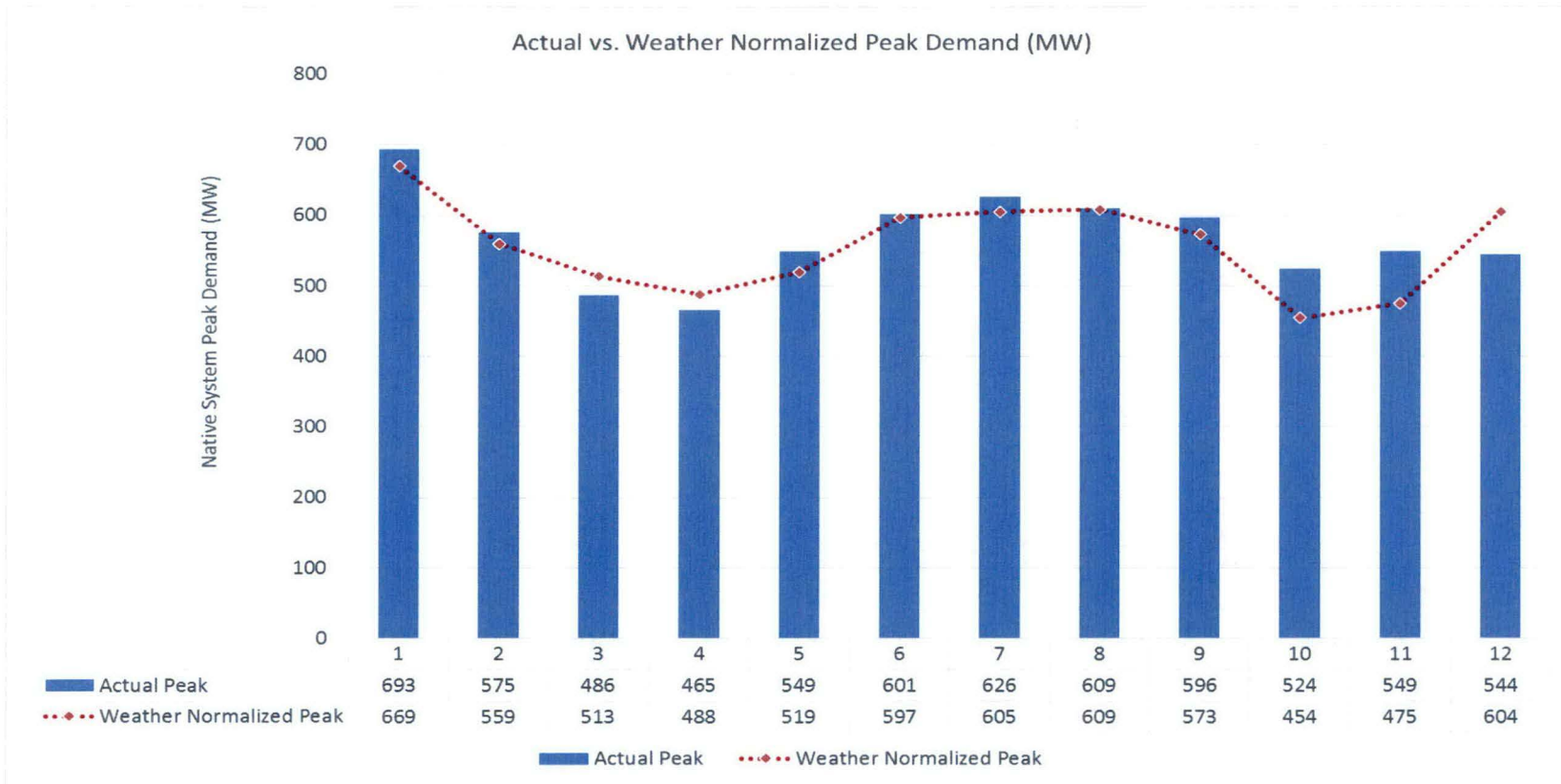
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8

9 **Respondent)** Marlene S. Parsley

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Big Rivers Electric Corporation
Administrative Case No. 387
Graph 4-G
Actual versus Weather Normalized Peak Demand



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1 **Item 5)** *Load shape curves showing the number of hours that native*
2 *load demand exceeded these levels during the just complete calendar year:*

3

4 *a. 70% of the sum of installed generating capacity plus firm*
5 *capacity purchases;*

6 *b. 80% of the sum of installed generating capacity plus firm*
7 *capacity purchases;*

8 *c. 90% of the sum of installed generating capacity plus firm*
9 *capacity purchases.*

10

11 **Response)** The information originally requested in the above item of Appendix G
12 of the December 2001 Order in Admin. Case 387 is no longer required pursuant to
13 Ordering Paragraph No. 5 of the Commission's Order dated March 29, 2004,
14 amending the December 2001 Order in Admin Case 387.

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17 **Respondent)** Marlene S. Parsley

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1 **Item 6)** *Based on the most recent demand forecast, the base case*
2 *demand and energy forecasts and high case demand and energy forecasts*
3 *for the current year and the following four years. The information should*
4 *be disaggregated into*

5

6 *a. Native load (firm and non-firm demand) and*

7 *b. Off-system load (both firm and non-firm demand).*

8

9 **Response)** Table 6-G tabulates the forecasted base case and high case demand
10 and energy in the associated demand breakdowns as requested.

11

12

13 **Respondent)** Marlene S. Parsley

14

Big Rivers Electric Corporation
Administrative Case No. 387
Table 6-G
Total Native Load and Off-System Loads
Base and High Case Forecasts

	Native Load				Off-System Load Demand			
	Base Case		High Case		Base Case		High Case	
	Demand (MW)	Energy (MWH)	Demand (MW)	Energy (MWH)	Firm Demand (MW)	Non-Firm Demand (MW)	Firm Demand (MW)	Non-Firm Demand (MW)
2019	610	3,321,653	727	3,690,035	323	0	323	0
2020	639	3,362,261	739	3,749,644	353	0	353	0
2021	640	3,363,840	743	3,772,649	353	0	353	0
2022	641	3,367,701	744	3,794,590	353	0	353	0
2023	642	3,369,689	746	3,816,438	353	0	353	0

Notes and Assumptions -

Native Base case:

Demand and Energy include only Native Load without Transmission Losses

Demand is Big Rivers' forecasted peak coincident with MISO (MISO Requirement)

Firm Off-System Load Demand consists of executed long term sales to KYMEA, OMU, and Net Bilateral Capacity Sales

Excess generation sales to MISO are not projected as they will be contingent upon unit availability at time of system peak and can vary significantly

Native High Case:

Native High case represents the optimistic economy scenario for energy, and Extreme Winter Weather Scenario for Demand

Native High case Off-System Firm Demand (MW) same as Base Case

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February 28, 2019

1 **Item 7)** *The target reserve margin currently used for planning*
2 *purposes, stated as a percentage of demand. If changed from what was in*
3 *use in 2001, include a detailed explanation for the change.*

4
5 **Response)** The current target reserve margin used for planning purposes is
6 16.8% based on Installed Capacity Ratings of resources, and 7.9% based on
7 Unforced Capacity Ratings, as specified by MISO for the upcoming planning year
8 effective June 1, 2019. MISO annually determines a minimum Planning Reserve
9 Margin ("PRM") that would result in the MISO system experiencing a less than
10 one-day loss-of-load event every 10 years per the MISO Tariff. That margin
11 changes over time, and is shown in the Table 5-3 reproduced below, which is from
12 the MISO 2019-2020 Loss of Load Expectation Study Report. That study includes
13 details of how that margin is derived and used and is available at the following
14 link:

15
16 <https://cdn.misoenergy.org/2019%20LOLE%20Study%20Report285051.pdf>

17
18
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1

Table 5.3: Future Planning Year MISO System Planning Reserve Margins ¹

Metric	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
PRM_{ICAP}	<u>16.8%</u>	16.8%	16.8%	<u>16.8%</u>	16.8%	<u>16.3%</u>	16.3%	16.2%	16.1%	16.1%
PRM_{UCAP}	<u>7.9%</u>	8.0%	8.0%	<u>8.1%</u>	8.1%	<u>7.6%</u>	7.7%	7.7%	7.6%	7.6%

2

3

4

Respondent) Marlene S. Parsley

5

¹ Years without underlined results indicate values that were calculated through interpolation.

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1 **Item 8) *Projected reserve margins stated in megawatts and as a***
2 ***percentage of demand for the current year and the following four years.***
3 ***Identify projected deficits and current plans for addressing these. For***
4 ***each year identify the level of firm capacity purchases projected to meet***
5 ***native load demand.***

6
7 **Response) Please see Table 1 on the following page. Reserve Margin MWs are**
8 **calculated as unforced capacity of available resources minus Base Demand and**
9 **net Firm Capacity Sales. Big Rivers will make bilateral capacity purchases or**
10 **participate in the annual MISO Planning Resource Auction to alleviate any**
11 **shortages so that we will meet the MISO Planning Reserve Margin Requirements**
12 **including transmission losses. Big Rivers is not projecting any deficits.**

13 **Coleman Station is excluded from reserve margin calculations since it was**
14 **idled in May 2014. On November 27, 2017, the Federal Energy Regulatory**
15 **Commission denied Big Rivers' request for waiver of MISO Section 38.2.7**
16 **termination of interconnection service for big Rivers' idled Coleman Generating**
17 **Station.**

18 **Reid Station Unit 1 is excluded from reserve margin calculation due to its**
19 **idling in April 2016, as noted in Big Rivers' response to Item 11. Big Rivers also**
20 **filed this information in its Attachment Y notification to MISO.**

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1 Big Rivers' share of Henderson Municipal Power & Light's Station Two is
2 excluded from the reserve margin calculation due to its retirement on February 1,
3 2019, as noted in Big Rivers' response to Item 11.

4

Table 1

<u>Year</u>	<u>Reserve Margin (UCAP MW)</u>	<u>Reserve Margin (%)</u>	<u>MISO Reserve Margin Requirement ² (UCAP %)</u>	<u>Firm Capacity Purchases (MW) ³</u>	<u>Projected Purchases (MW)</u>	<u>Projected Deficit (MW)</u>
2019	74	12 %	10 %	154	0	0
2020	55	9 %	10 %	178	7	0
2021	64	10 %	10 %	178	0	0
2022	64	10 %	10 %	178	0	0
2023	73	11 %	10 %	178	0	0

5

6

7 **Respondent)** Marlene S. Parsley

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² MISO reserve margin Requirement includes transmission Losses.

³ Southeastern Power Administration ("SEPA") is at reduced capacity through 2019, and scheduled to resume full 178 MW capacity for Planning Years 2020 and beyond following its expected return from Force Majeure status.

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1 **Item 9)** *By date and hour, identify all incidents during the just*
2 *completed calendar year when reserve margin was less than the East*
3 *Central Area Reliability Council's ("ECAR") 1.5% spinning reserve*
4 *requirement. Include the amount of capacity resources that were*
5 *available, the actual demand on the system, and the reserve margin,*
6 *stated in megawatts and as a percentage of demand. Also, identify system*
7 *conditions at the time.*

8

9 **Response)** The information originally requested in the above item of Appendix G
10 of the December 2001 Order in Admin. Case 387 is no longer required pursuant to
11 Ordering Paragraph No. 5 of the Commission's Order dated March 29, 2004,
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15 **Respondent)** Marlene S. Parsley

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1 **Item 10)** *A list identifying and describing all forced outages in excess of*
2 *two hours in duration during the just completed calendar year.*

3

4 **Response)** The information originally requested in the above item of Appendix G
5 of the December 2001 Order in Admin. Case 387 is no longer required pursuant to
6 Ordering Paragraph No. 5 of the Commission's Order dated March 29, 2004,
7 amending the December 2001 Order in Admin Case 387.

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9

10 **Respondent)** Ronald D. Gregory

11

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1 **Item 11) *A list that identifies scheduled outages or retirements of***
2 ***generating capacity during the current year and the following four years.***

3
4 **Response) HMP&L Units 1 and 2 were retired on February 1, 2019. There are**
5 **no other retirements of generating capacity anticipated through 2023, at this**
6 **time. Coleman Units 1 – 3 were idled in May 2014, due to the Century Aluminum**
7 **power sales contract terminations and cessation of the MISO System Support**
8 **Resource ("SSR") agreement applicable to the Coleman units. Big Rivers idled**
9 **Reid Unit 1 on April 1, 2016, following MISO's approval of Big Rivers' Attachment**
10 **Y Suspension Notice.**

11 **The planned maintenance outage schedule for 2019 through 2023 is**
12 **being provided pursuant to a petition for confidential treatment. The schedule is**
13 **regularly modified based on actual operating conditions, forced outages, changes**
14 **in the schedule required to meet environmental regulation compliance, fluctuation**
15 **in wholesale capacity and energy prices, and other unforeseen events that may**
16 **affect unit reliability or generation capacity. The scheduled outages for all units**
17 **are listed below:**

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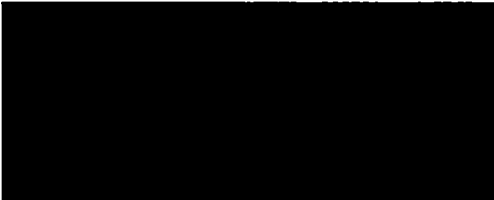
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February 28, 2019

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Wilson Unit 1

2019	
2020	
2021	
2022	
2023	

Green Unit 1

2019	
2020	
2021	
2022	
2023	

Green Unit 2

2019	
2020	
2021	
2022	
2023	

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HMP&L Unit 1

2019

2020

2021

2022

2023



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HMP&L Unit 2

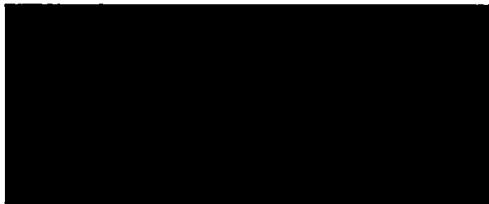
2019

2020

2021

2022

2023



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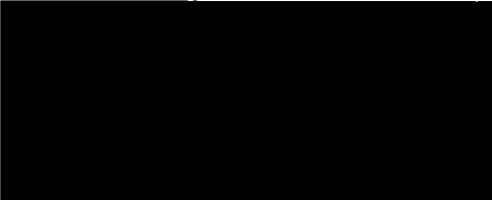
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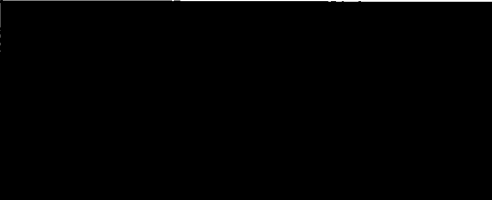
February 28, 2019

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Coleman Unit 1

2019	
2020	
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2022	
2023	

Coleman Unit 2

2019	
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2023	

Coleman Unit 3

2019	
2020	
2021	
2022	
2023	

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1

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Reid Unit 1

2019
2020
2021
2022
2023



3

4

Reid Combustion Turbine

2019
2020
2021
2022
2023



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Respondent) Ronald D. Gregory

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1 **Item 12)** *Identify all planned base load or peaking capacity additions*
2 *to meet native load requirements over the next 10 years. Show the*
3 *expected in-service date, size, and site for all planned additions. Include*
4 *additions planned by the utility, as well as those by affiliates, if*
5 *constructed in Kentucky or intended to meet load in Kentucky.*

6

7 **Response)** Big Rivers presently has no plans to make base load or peaking
8 capacity additions to meet native load requirements for the years 2019 through
9 2028.

10

11

12 **Respondent)** Marlene S. Parsley

13

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1 **Item 13)** *The following transmission energy data for the just completed*
2 *calendar year and the forecast for the current year and the following four*
3 *years:*

- 4
- 5 *a. Total energy received from all interconnections and*
6 *generation sources connected to the transmission system;*
7 *b. Total energy delivered to all interconnections on the*
8 *transmission system;*
9 *c. Peak load capacity of the transmission system; and*
10 *d. Peak demand for summer and winter seasons on the*
11 *transmission system.*

12

13 **Response)**

14 a.

Transmission System Energy Received (MWh)

	<u>Generation</u>	<u>Interconnections</u>	<u>Total</u>
2018	6,157,838	11,340,990	17,498,738

Projected System Energy Received (MWh)

2019	18,900,000
2020	19,000,000
2021	19,000,000
2022	19,000,000
2023	19,000,000

15

BIG RIVERS ELECTRIC CORPORATION

**SUPPLEMENTAL INFORMATION PROVIDED WITH
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT
PURSUANT TO ADMINISTRATIVE CASE NO. 387 –
A REVIEW OF THE ADEQUACY OF KENTUCKY'S GENERATION
CAPACITY AND TRANSMISSION SYSTEM**

**Response to Commission Staff's Information Request
as set forth in
Appendix G of the Commission's Order dated December 20, 2001**

February 28, 2019

1

b.

**Transmission System Energy Delivered at Interconnections
(MWh)**

	<u>Total</u>
2018	7,979,560

**Projected System Energy Delivered at Interconnection
(MWh)**

2019	7,360,000
2020	7,310,000
2021	7,310,000
2022	7,310,000
2023	7,310,000

2

3

c.

Transmission Peak Capacity (MW)
2018 2,903

Projected Transmission Peak Capacity (MW)

2019	2,903
2020	2,903
2021	2,903
2022	2,903
2023	2,903

4

5

6

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1

d.

Transmission System Peak Demand (MW)

	<u>Winter</u>	<u>Summer</u>
2018	1,377	1,389

Projected System Peak Demand (MW)

	<u>Winter</u>	<u>Summer</u>
2019	1,590	1,619
2020	1,604	1,623
2021	1,608	1,625
2022	1,611	1,628
2023	1,614	1,630

2

3

4

Respondent) Christopher S. Bradley

5

BIG RIVERS ELECTRIC CORPORATION

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A REVIEW OF THE ADEQUACY OF KENTUCKY'S GENERATION
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February 28, 2019

1 **Item 14)** *Identify all planned transmission capacity additions for the*
2 *next ten years. Include the expected in-service date, size and site for all*
3 *planned additions and identify the transmission need each addition is*
4 *intended to address.*

5

6 **Response)** A CONFIDENTIAL listing of Big Rivers' planned Transmission
7 Capacity Additions for 2019 through 2028 is being submitted with a Petition for
8 Confidential Treatment.

9

10

11 **Respondent)** Christopher S. Bradley

12

In the Matter of:

A REVIEW OF THE ADEQUACY OF) Administrative
KENTUCKY'S GENERATION CAPACITY) Case No.
AND TRANSMISSION SYSTEM) 387

SUPPLEMENTAL INFORMATION PROVIDED WITH
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT
PURSUANT TO ADMINISTRATIVE CASE NO. 387

CONFIDENTIAL RESPONSE

to Item 14 of the Commission Staff's Information Request
as set forth in Appendix G of the Commission's Order
dated December 20, 2001
FILED: February 28, 2019

**INFORMATION SUBMITTED UNDER PETITION FOR
CONFIDENTIAL TREATMENT**

BIG RIVERS ELECTRIC CORPORATION

**SUPPLEMENTAL INFORMATION PROVIDED WITH
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT
PURSUANT TO ADMINISTRATIVE CASE NO. 387 –
A REVIEW OF THE ADEQUACY OF KENTUCKY'S GENERATION
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February 28, 2018

1 **Supplemental Item 1)** *Provide a detailed discussion of the consideration*
2 *given to price elasticity in the forecasted demand, energy, and reserve*
3 *margin information above.*

4
5 **Response)** This supplemental information, originally requested pursuant to a
6 May 31, 2013, letter request from Commission Staff, is no longer required
7 pursuant to a January 13, 2017, letter from the Commission's Executive Director.

8
9
10 **Respondent)** Marlene S. Parsley
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