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Skill. Integrity. Efficiency.

February 28, 2017

VIA FEDERAL EXPRESS

RECEIVED

MAR 1 2017

PUBLIC SERVICE
COMMISSION

Dr. Talina R. Mathews
Executive Director
Public Service Commission
211 Sower Boulevard, P.O. Box 615
Frankfort, Kentucky 40602-0615

Re: Big Rivers Electric Corporation's Annual Financial
and Statistical Report Pursuant to Administrative
Case No. 387

Dear Dr. Mathews:

Enclosed for filing are 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, and an original and ten (10) copies of a petition for confidential treatment. Please call if you have any questions.

Sincerely,

Tyson Kamuf
Counsel for Big Rivers Electric Corporation

TAK/abg

Enclosures

ORIGINAL



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: March 1, 2017


ORIGINAL

BIG RIVERS ELECTRIC CORPORATION

**A REVIEW OF THE ADEQUACY OF
KENTUCKY'S GENERATION CAPACITY
AND TRANSMISSION SYSTEM
ADMINISTRATIVE CASE NO. 387**

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)

28th SUBSCRIBED AND SWORN TO before me by Jason C. Burden on this the
day of February, 2017.



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

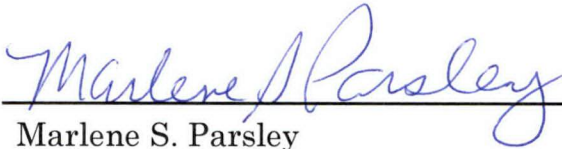


BIG RIVERS ELECTRIC CORPORATION

**A REVIEW OF THE ADEQUACY OF
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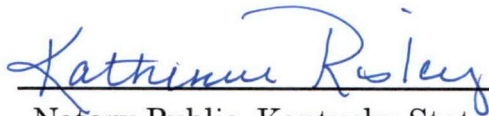
I, Marlene S. Parsley, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Marlene S. Parsley

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

28th SUBSCRIBED AND SWORN TO before me by Marlene S. Parsley on this the
day of February, 2017.



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



BIG RIVERS ELECTRIC CORPORATION

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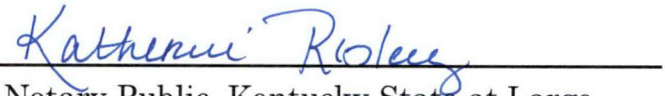
I, Christopher S. Bradley, verify, state, and affirm that the data request responses filed with this verification for which I am listed as a witness are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Christopher S. Bradley

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Christopher S. Bradley on this
the 29th day of February, 2017.



Notary Public, Kentucky State at Large

My Commission Expires 10-31-2020



BIG RIVERS ELECTRIC CORPORATION

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March 1, 2017

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

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March 1, 2017

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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March 1, 2017

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 2016. 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 two components: forward bilateral sales which are characterized
14 as firm, and off-system sales due to generation clearing in the MISO market
15 which is in excess of Big Rivers' load. These sales are not "non-firm," rather they
16 are a result of Big Rivers' compliance with MISO tariff obligations.

17

18

19 **Respondent)** Marlene S. Parsley

**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		Off-System Sales		
		All Firm Peak Demand		Off-System Demand		
		Actual	Weather Normalized	Firm ³	Sales to MISO ²	Non-Firm
Jan-16	01/18/16	601	587	300	166	0
Feb-16	02/09/16	594	584	300	61	0
Mar-16	03/01/16	466	553	200	399	0
Apr-16	04/26/16	424	403	200	201	0
May-16	05/31/16	485	502	300	0	0
Jun-16	06/23/16	607	565	100	152	0
Jul-16	07/21/16	615	630	400	35	0
Aug-16	08/30/16	598	629	300	180	0
Sep-16	09/08/16	589	549	300	121	0
Oct-16	10/19/16	480	430	300	6	0
Nov-16	11/21/16	484	491	300	87	0
Dec-16	12/15/16	588	560	300	328 ⁴	0

Notes -

- 1.- Without Transmission Losses
- 2.- Sales to MISO at generator nodes
- 3.- Off System Firm Sales are Pre-arranged bilateral sales, mostly occurring at MISO's Indiana Hub
- 4.- December off-system sales subject to slight change due to meter corrections

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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 2016.

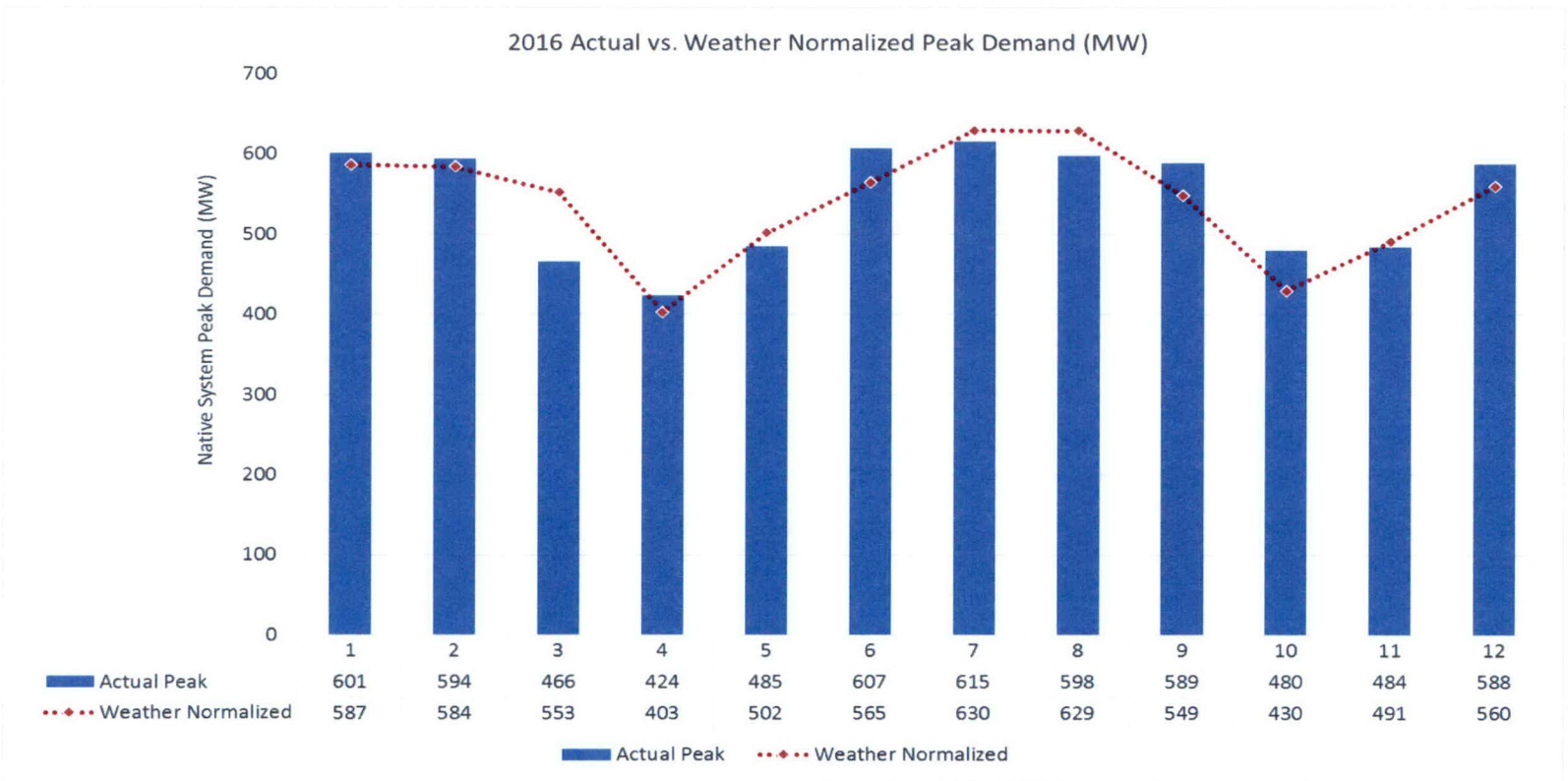
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8

9 **Respondent)** Marlene S. Parsley

10

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



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March 1, 2017

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.

15

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17 **Respondent)** Marlene S. Parsley

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March 1, 2017

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)
2017	675	3,533,234	772	3,739,188	365	0	365	0
2018	677	3,550,714	775	3,780,186	105	0	105	0
2019	679	3,567,353	778	3,821,015	280	0	280	0
2020	681	3,578,156	880	4,555,540	334	0	234	0
2021	685	3,595,907	884	4,590,674	339	0	239	0

Notes and Assumptions -

Native Base case:

1. - Demand and Energy include only Native Load without Transmission Losses.
2. - Firm Off-System Load Demand consists of executed long term sales to Nebraska entities and KYMEA, plus Capacity only Hedging sales and additional sales anticipated beginning in 2020.
3. - 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:

4. - High case represents the optimistic economy scenario for energy, and Extreme Winter Weather Scenario for Demand.
5. - High Case Off System Firm Demand includes existing executed long term sales including sales to Nebraska, KYMEA, and Capacity-Only Hedging sales.
6. - Except for pending Firm sales to Nebraska and KYMEA and executed Capacity-only Hedging sales, replacement of load previously consumed by the smelters and included in Big Rivers' business case is assumed to be sold entirely within Big Rivers territory, in addition to high growth of existing load.

Administrative Case No. 387

Attachment for Response to Appendix G - Item 6

Respondent: Marlene S. Parsley

Page 1 of 1

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March 1, 2017

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 15.8% based on Installed Capacity Ratings of resources as specified by MISO for
7 the upcoming planning year effective June 1, 2017. MISO annually determines a
8 minimum Planning Reserve Margin ("PRM") that would result in the MISO
9 system experiencing a less than one-day loss of load event every 10 years per the
10 MISO Tariff. That margin changes over time, and is shown in the table
11 reproduced below, which is from the MISO 2017 Loss of Load Expectation Study.
12 That study includes details of how that margin is derived and used and is
13 available at the following link:

14
15 [https://www.misoenergy.org/PLANNING/RESOURCEADEQUACY/Pages/
16 ResourceAdequacyStudies.aspx](https://www.misoenergy.org/PLANNING/RESOURCEADEQUACY/Pages/ResourceAdequacyStudies.aspx)

17
18 **Table 5.3-1: Future Planning Year MISO System Planning Reserve Margins¹**

Metric	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
PRM _{ICAP}	<u>15.8%</u>	15.6%	<u>15.3%</u>	15.4%	15.5%	15.5%	15.6%	15.6%	15.7%	<u>15.7%</u>
PRM _{UCAP}	<u>7.8%</u>	7.5%	<u>7.3%</u>	7.3%	7.4%	7.5%	7.6%	7.6%	7.7%	<u>7.8%</u>

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

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March 1, 2017

1

2 **Respondent)** Marlene S. Parsley

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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)** As shown in Table 1 below, Big Rivers is not projecting any deficits.

8

Table 1

<u>Year</u>	<u>Reserve Margin (MW)</u>	<u>Reserve Margin (%)</u>	<u>Firm Capacity Purchases (MW)</u>	<u>Projected Deficit</u>
2017	396	38%	154 *	0
2018	649	83%	154 *	0
2019	520	54%	178 *	0
2020	464	46%	178 *	0
2021	455	44%	178 *	0

9

10 * Southeastern Power Administration ("SEPA") is at reduced capacity
11 until late in 2018, and scheduled to resume full capacity in 2019 and
12 beyond following its expected return from Force Majeure status.
13 Coleman Station is excluded from reserve margin calculations since it
14 was idled in May 2014. Reid Station Unit 1 is excluded from reserve
15 margin calculation due to its idling in April 2016 as noted in Big

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March 1, 2017

1 Rivers' response to Item 11. Big Rivers also filed this information in
2 its Attachment Y notification to MISO.

3

4

5 **Respondent)** Marlene S. Parsley

6

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March 1, 2017

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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13

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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,
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10 **Respondent)** Jason C. Burden

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March 1, 2017

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)** There are no retirements of generating capacity anticipated through
5 2020 at this time. Coleman Units 1 – 3 were idled in May 2014, due to the
6 Century Aluminum power sales contract terminations and cessation of the MISO
7 System Support Resource (“SSR”) agreement applicable to the Coleman units.
8 Big Rivers idled Reid Unit 1 on April 1, 2016, following MISO’s approval of Big
9 Rivers’ Attachment Y Suspension Notice

10 The planned maintenance outage schedule for 2017 through 2021 is
11 being provided pursuant to a petition for confidential treatment. The schedule is
12 regularly modified based on actual operating conditions, forced outages, changes
13 in the schedule required to meet environmental regulation compliance, fluctuation
14 in wholesale capacity and energy prices, and other unforeseen events that may
15 affect unit reliability or generation capacity. The scheduled outages for all units
16 are listed below:

17

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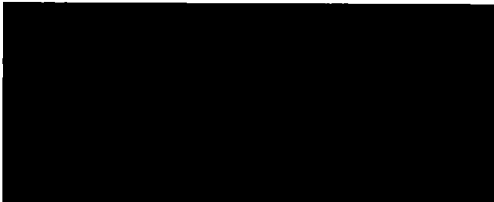
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March 1, 2017

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Wilson Unit 1

2017	
2018	
2019	
2020	
2021	

Green Unit 1

2017	
2018	
2019	
2020	
2021	

Green Unit 2

2017	
2018	
2019	
2020	
2021	

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March 1, 2017

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HMP&L Unit 1

2017	
2018	
2019	
2020	
2021	

HMP&L Unit 2

2017	
2018	
2019	
2020	
2021	

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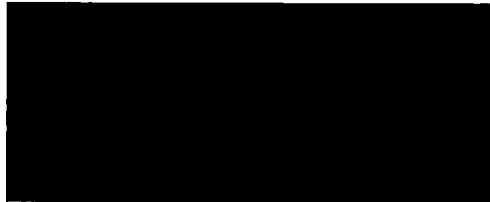
March 1, 2017

1

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Coleman Unit 1

2017
2018
2019
2020
2021



3

4

Coleman Unit 2

2017
2018
2019
2020
2021



5

6

Coleman Unit 3

2017
2018
2019
2020
2021



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Reid Unit 1

2017
2018
2019
2020
2021

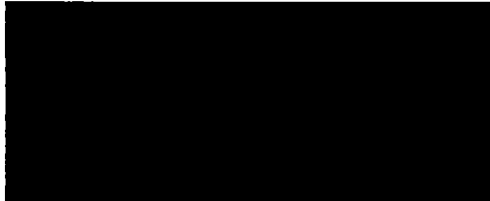


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4

Reid Combustion Turbine

2017
2018
2019
2020
2021



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Respondent) Jason C. Burden

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Appendix G of the Commission's Order dated December 20, 2001**

March 1, 2017

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 2017 through
9 2026.

10

11

12 **Respondent)** Marlene S. Parsley

13

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**

March 1, 2017

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>
2016	7,603,241	8,908,979	16,512,220

Projected System Energy Received (MWh)

2017	17,000,000
2018	19,000,000
2019	19,000,000
2020	19,000,000
2021	19,000,000

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1

b.

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

	<u>Total</u>
2016	7,359,959

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

2017	7,400,000
2018	7,400,000
2019	7,412,000
2020	7,443,000
2021	7,443,000

2

3

c.

Transmission Peak Capacity (MW)
2016 2,903

Projected Transmission Peak Capacity (MW)

2017	2,904
2018	2,904
2019	2,905
2020	2,905
2021	2,906

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1 d.

Transmission System Peak Demand (MW)

	<u>Winter</u>	<u>Summer</u>
2016	1,298	1,330

Projected System Peak Demand (MW)

	<u>Winter</u>	<u>Summer</u>
2017	1,616	1,633
2018	1,618	1,635
2019	1,620	1,638
2020	1,623	1,640
2021	1,627	1,645

2

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4 **Respondent)** Christopher S. Bradley

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BIG RIVERS ELECTRIC CORPORATION

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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**

March 1, 2017

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 2017 through 2026 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: March 1, 2017

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
CAPACITY AND TRANSMISSION SYSTEM**

**Response to Commission Staff's Information Request
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March 1, 2017

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.**

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10 **Respondent) Marlene S. Parsley**

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