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April 29, 2011

Jeff D. Cline
Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602-0615

RECEIVED

APR 29 2011

PUBLIC SERVICE
COMMISSION

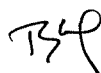
Re: Big Rivers Electric Corporation

Dear Mr. Cline:

Enclosed is an original notarized copy of Big Rivers Electric Corporation's 2010 Financial and Statistical Report (Annual Report) pursuant to 807 KAR 5:006 Section 3(1) and KRS 278.230(3). This report has also been submitted electronically via the Public Service Commission's internet-based data collection system. A copy of Big Rivers' 2010 Audit Report is being provided in conjunction with this filing.

Pursuant to Commission Order dated October 7, 2005, in this matter, two copies of the supplement to the annual report required in Administrative Case 387 are enclosed herewith. Additionally, an original and ten copies of a petition for confidential treatment are enclosed. The petition seeks confidential treatment for the response to Item 11 of the annual report supplement. One sealed copy of the response to Item 11 with the confidential information highlighted and 10 copies of the response with the confidential information redacted are being filed with the petition.

Sincerely,



Tyson Kamuf

TAK/ej
Enclosures

cc: Mark A. Bailey
C. William Blackburn
Albert Yockey
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BIG RIVERS ELECTRIC CORPORATION
SUPPLEMENTAL INFORMATION PROVIDED WITH
BIG RIVERS' ANNUAL FINANCIAL AND STATISTICAL REPORT
PURSUANT TO ADMINISTRATIVE CASE NO. 387

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

April 29, 2011

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

7
8 **Response)** The information originally requested in the above item of Appendix G of the
9 Commission's Order dated December 20, 2001, in Administrative Case No. 387, ("the
10 December 2001 Order in Admin. Case 387") is no longer required pursuant to Ordering
11 Paragraph No. 5 of the Commission's Order dated March 29, 2004, amending the December
12 2001 Order in Admin Case 387.

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15 **Respondent)** Michael J. Mattox

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April 29, 2011

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

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

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12 **Witness)** Michael J. Mattox

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as set forth in
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April 29, 2011

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

3

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

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

6

7 **Response)** Table 3-G shows the actual and weather normalized native load demand and the
8 off-system coincident demand for 2010. Big Rivers sells its surplus power into the market and
9 therefore the off-system sales cannot be weather normalized.

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12 **Respondent)** Michael J. Mattox

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TABLE # 3G

BIG RIVERS ELECTRIC CORPORATION

TOTAL NATIVE LOAD & OFF-SYSTEM COINCIDENT PEAK DEMANDS (MW)

Month	Native Load		Off-System Sales	
	All Firm		Off-System Demand	
	Actual	Weather Normalized	Firm	Non-Firm
Jan-10	1367	1383	0	195
Feb-10	1327	1313	0	273
Mar-10	1242	1296	0	389
Apr-10	1146	1183	0	205
May-10	1261	1220	0	296
Jun-10	1356	1305	0	167
Jul-10	1357	1357	0	174
Aug-10	1391	1348	0	208
Sep-10	1311	1336	0	222
Oct-10	1133	1177	0	223
Nov-10	1225	1271	0	206
Dec-10	1395	1379	0	198

Note: Big Rivers sells its surplus power into the market and therefore the off-system sales cannot be weather normalized.

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as set forth in
Appendix G of the Commission's Order dated December 20, 2001

April 29, 2011

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

4

5 **Response)** Graph 4-G shows the monthly native load demand with the monthly weather
6 normalized native load demand for 2010. The total curve represents the native load plus any
7 actual off-system sales at the time of the native load peak.

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10 **Respondent)** Michael J. Mattox

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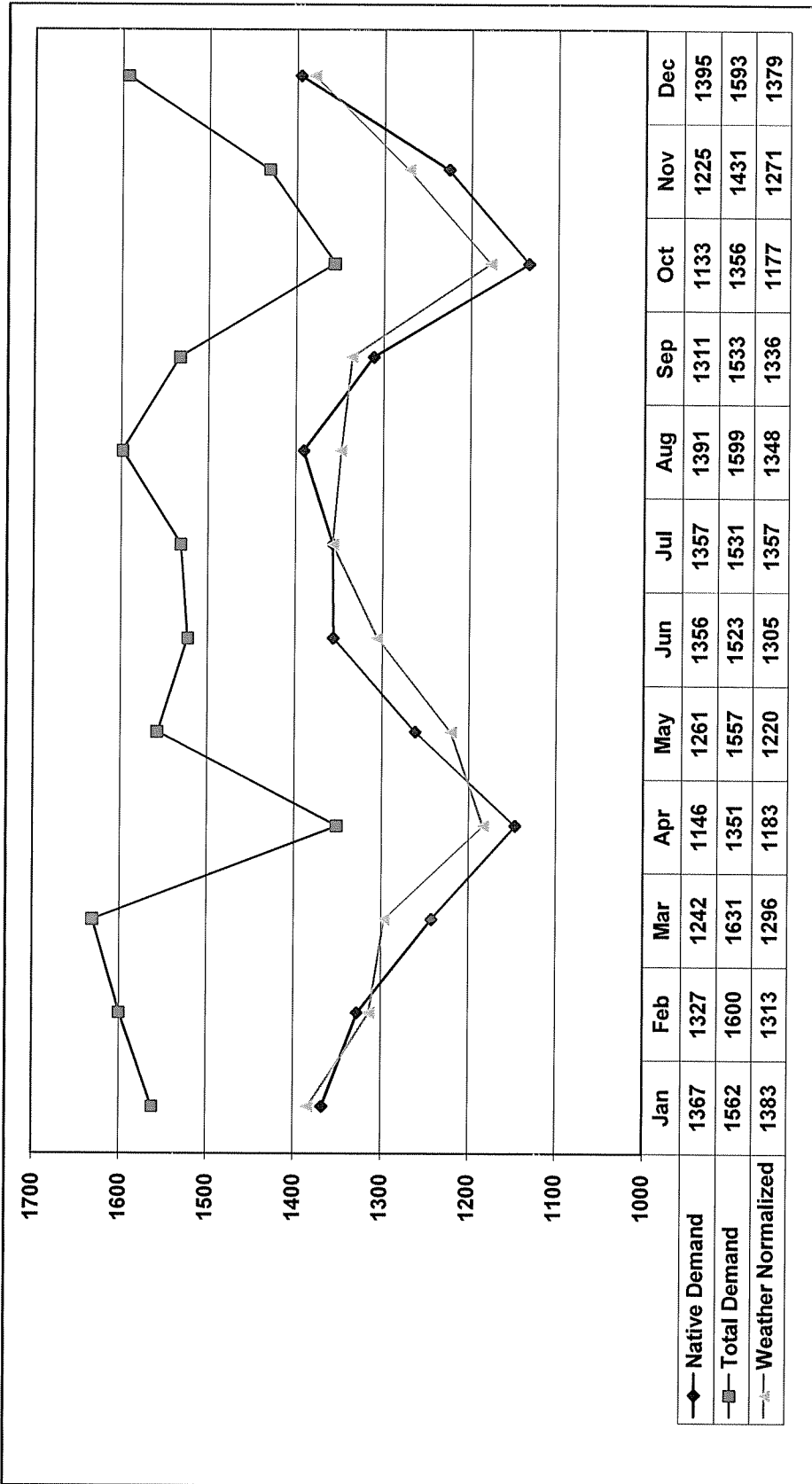
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Graph #4G

BIG RIVERS ELECTRIC CORPORATION

NATIVE LOAD AND TOTAL COINCIDENT PEAK DEMANDS (MW) - 2010



BIG RIVERS ELECTRIC CORPORATION
SUPPLEMENTAL INFORMATION PROVIDED WITH
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PURSUANT TO ADMINISTRATIVE CASE NO. 387

Response to Commission Staff's Information Request
as set forth in
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April 29, 2011

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

3

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

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

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

10

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

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17 **Respondent)** Michael J. Mattox

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as set forth in
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April 29, 2011

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

4

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

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

7

8 **Response)** Table 6-G tabulates the forecasted base case and high case demand and energy
9 in the associated demand breakdowns as requested. Big Rivers does not have any off-system
10 load demand.

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13 **Respondent)** Michael J. Mattox

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TABLE # 6G

BIG RIVERS ELECTRIC CORPORATION
TOTAL NATIVE LOAD & OFF-SYSTEM LOADS
BASE & HIGH CASE FORECASTS

Year	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)
2011	1,498	10,729,241	1,556	10,806,252	0	0	0	0
2012	1,504	10,782,940	1,563	10,861,342	0	0	0	0
2013	1,510	10,793,126	1,569	10,874,063	0	0	0	0
2014	1,517	10,827,941	1,577	10,925,747	0	0	0	0
2015	1,525	10,867,352	1,586	10,988,109	0	0	0	0

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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

April 29, 2011

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

4
5 **Response)** The current target reserve margin used for planning purposes is 3.81% as
6 specified by the Midwest ISO for the upcoming planning year effective June 1, 2011. On
7 December 1, 2010, upon integration with the Midwest ISO, Big Rivers became subject to
8 Midwest ISO Tariff Module E resource adequacy requirements. Big Rivers notes that, as part
9 of the Integrated Resource Plan that was that was filed with the Kentucky Public Service
10 Commission in November 2010 (Case No. 2010-00443), but prepared prior to its Midwest ISO
11 integration, Big Rivers used a planning reserve margin of 15% as recommended by the Federal
12 Energy Regulatory Commission for utilities that have primarily thermal based systems.

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15 **Respondent)** Michael J. Mattox

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Response to Commission Staff's Information Request
as set forth in
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April 29, 2011

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

5

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

7

Table 1

<u>Year</u>	<u>Reserve Margin (MW)</u>	<u>Reserve Margin (%)</u>	<u>Firm Capacity Purchases (MW)</u>	<u>Projected Deficit</u>
2011	247	13%	178	0
2012	235	13%	178	0
2013	229	12%	178	0
2014	222	12%	178	0
2015	214	12%	178	0

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12 **Respondent)** Michael J. Mattox

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PURSUANT TO ADMINISTRATIVE CASE NO. 387

Response to Commission Staff's Information Request
as set forth in
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April 29, 2011

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

6

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

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13 **Respondent)** Michael J. Mattox

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as set forth in
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April 29, 2011

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

3

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

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10 **Respondent)** Lawrence V. Baronowsky

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BIG RIVERS ELECTRIC CORPORATION

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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**

April 29, 2011

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

3

4 **Response)** There are no retirements of generating capacity anticipated through 2015. The
5 planned maintenance outage schedule for 2011 through 2015 is being provided pursuant to a
6 Petition for Confidential Protection. The schedule is regularly modified based on actual
7 operating conditions, forced outages, changes in the schedule required to meet environmental
8 regulation compliance, fluctuation in wholesale prices, and other unforeseen events that may
9 affect unit reliability or generation capacity. The scheduled outages for all units are listed
10 below:

11

12

Wilson Unit 1

13

2011

[REDACTED]

14

2012

[REDACTED]

15

2013

[REDACTED]

16

2014

[REDACTED]

17

2015

[REDACTED]

18

BIG RIVERS ELECTRIC CORPORATION

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April 29, 2011

1	<u>Green Unit 1</u>	
2	2011	[REDACTED]
3	2012	[REDACTED]
4	2013	[REDACTED]
5	2014	[REDACTED]
6	2015	[REDACTED]
7		
8	<u>Green Unit 2</u>	
9	2011	[REDACTED]
10	2012	[REDACTED]
11	2013	[REDACTED]
12	2014	[REDACTED]
13	2015	[REDACTED]
14		
15	<u>HMP&L Unit 1</u>	
16	2011	[REDACTED]
17	2012	[REDACTED]
18	2013	[REDACTED]
19	2014	[REDACTED]
20	2015	[REDACTED]
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1	<u>HMP&L Unit 2</u>	
2	2011	[REDACTED]
3	2012	[REDACTED]
4	2013	[REDACTED]
5	2014	[REDACTED]
6	2015	[REDACTED]
7		
8	<u>Coleman Unit 1</u>	
9	2011	[REDACTED]
10	2012	[REDACTED]
11	2013	[REDACTED]
12	2014	[REDACTED]
13	2015	[REDACTED]
14		
15	<u>Coleman Unit 2</u>	
16	2011	[REDACTED]
17	2012	[REDACTED]
18	2013	[REDACTED]
19	2014	[REDACTED]
20	2015	[REDACTED]
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1	<u>Coleman Unit 3</u>	
2	2011	[REDACTED]
3	2012	[REDACTED]
4	2013	[REDACTED]
5	2014	[REDACTED]
6	2015	[REDACTED]

7		
8	<u>Reid Unit 1</u>	
9	2011	[REDACTED]
10	2012	[REDACTED]
11	2013	[REDACTED]
12	2014	[REDACTED]
13	2015	[REDACTED]

14		
15	<u>Reid Combustion Turbine</u>	
16	2011	[REDACTED]
17	2012	[REDACTED]
18	2013	[REDACTED]
19	2014	[REDACTED]
20	2015	[REDACTED]

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Respondent) Lawrence V. Baronowsky

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April 29, 2011

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

5
6 **Response)** Big Rivers presently has no plans to make base load or peaking capacity
7 additions to meet native load requirements for the years 2011 through 2020.

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10 **Respondent)** Michael J. Mattox

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**Response to Commission Staff's Information Request
as set forth in
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April 29, 2011

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

3

4 *a. Total energy received from all interconnections and generation sources*
5 *connected to the transmission system;*

6 *b. Total energy delivered to all interconnections on the transmission system;*

7 *c. Peak load capacity of the transmission system; and*

8 *d. Peak demand for summer and winter seasons on the transmission system.*

9

10 **Response)**

11

a.

Transmission System Energy Received (MWh)

	<u>Generation</u>	<u>Interconnections</u>	<u>Total</u>
2010	11,496,996	4,149,307	15,646,303

Projected System Energy Received (MWh)

2011			16,000,000
2012			16,000,000
2013			16,000,000
2014			16,000,000
2015			16,000,000

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b.

Transmission System Energy Delivered at Interconnections (MWh)

	<u>Total</u>
2010	5,705,571

Projected System Energy Delivered at Interconnection (MWh)

2011	6,000,000
2012	6,000,000
2013	6,000,000
2014	6,000,000
2015	6,000,000

2

3

c.

Transmission Peak Capacity (MW)

2010	2435
------	------

Projected Transmission Peak Capacity (MW)

2011	2435
2012	2903
2013	2903
2014	2903
2015	2903

4

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1 d.

Transmission System Peak Demand (MW)

	<u>Winter</u>	<u>Summer</u>
2010	1464	1445

Projected System Peak Demand (MW)

	<u>Winter</u>	<u>Summer</u>
2011	1600	1550
2012	1600	1550
2013	1600	1550
2014	1600	1550
2015	1600	1550

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5 **Respondent)** Glen D. Thweatt

BIG RIVERS ELECTRIC CORPORATION
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April 29, 2011

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

4

5 **Response)** Attached hereto is a listing of Big Rivers' Transmission Capacity Additions for
6 2011 through 2020.

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9 **Respondent)** David G. Crockett

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**Big Rivers Electric Corporation
Administrative Case No. 2000-00387
Transmission Capacity Additions – 2011 - 2020**

Project Description

Notes

Year: 2011

Hancock Capacitor Bank Addition

Re-conductor Wilson tie – Paradise 161 kV Line (8miles)

Wilson To Hardinsburg – Paradise 161 kV line (13 miles)

Wilson 161 kV line Terminal

Up-grading infrastructure to meet system load growth
Increase off-system import/export capability
Increase off-system import/export capability
Increase off-system import/export capability

Year: 2012

Co-op Substation 69 kV Line (3 miles)

Wilson Substation 161/69 kV 50 MVA TX Addition

Wilson – Centertown 69 kV Line Addition (6 miles)

Re-Conductor Meade Co. –Garrett 336 MCM (8.5 miles)

Reid EHV 345 kV Line Terminal Addition

Member Substation tap line and metering
Up-grading infrastructure to meet system load growth
Up-grading infrastructure to meet system load growth
Up-grading infrastructure to meet system load growth
Increase off-system import/export capability

Year: 2013

Cumberland – Caldwell Springs 69 kV line (10 miles)

White Oak Substation & Transmission Line Additions (50MVA)

Co-op Substation 69 kV Line (3 miles)

Upgrade Pleasant Ridge to Centertown 69 kV Line (15.9 miles)

Garrett to Flaherty Tap 69 kV Line Addition (3 miles)

Up-grading infrastructure to meet system load growth
Up-grading infrastructure to meet system load growth
Member Substation tap line and metering
Up-grading infrastructure to meet system load growth
Up-grading infrastructure to meet system load growth

Administrative Case 2000-00387

Respondent: David G. Crockett

Attachment for Item 14

Page 1 of 3

**Big Rivers Electric Corporation
 Administrative Case No. 2000-00387
 Transmission Capacity Additions – 2011 - 2020**

Project Description

Notes

Year: 2014

Paradise 161 kV line Terminal Upgrade
 Co-op Substation 69 kV Line (2 miles)
 Sebree Capacitor Bank

Increase off-system import/export capability
 Member Substation tap line and metering
 Up-grading infrastructure to meet system load growth

Year: 2015

Co-op Substation 69 kV Line (2miles)
 Corydon 161/69 kV Substation (50 MVA)
 HMP&L #4 161 kV Line Terminal
 Corydon-HMP&L #4 161 kV Line (9 miles)

Member Substation tap line and metering
 New Substation to meet system load growth
 Transmission Line to connect new Substation
 Transmission Line to connect new Substation

Year: 2016

Co-op Substation 69 kV Line (2 miles)
 Bryan Road – Husband Rd. Tap Re-conductor 336 MCM (1m)

Member Substation tap line and metering
 Up-grading infrastructure to meet system load growth

Year: 2017

Co-op Substation 69 kV Line (2 miles)
 Re-Conductor Reid – Niagara with 336 MCH (6 miles)
 Re-Conductor Rome Jct.-W. Owensboro with 336 MCM(4.9 miles)
 Hardinsburg Transformer Upgrades (100 MVA)

Member Substation tap line and metering
 Up-grading infrastructure to meet system load growth
 Up-grading infrastructure to meet system load growth
 Up-grading infrastructure to meet system load growth

**Big Rivers Electric Corporation
 Administrative Case No. 2000-00387
 Transmission Capacity Additions – 2011 - 2020**

Project Description

Notes

Year: 2018

Re-Conductor Henderson Co. – Zion tap with 556 MCM (1.6 miles)	Up-grading infrastructure to meet system load growth
Re-Conductor Zion Tap - Wolf Hills Tap 556 MCM (1.2 miles)	Up-grading infrastructure to meet system load growth
Co-op Substation 69 kV line (2 miles)	Member Substation tap line and metering
Re-Conductor Corydon-Geneva to 336 MCM (6.1 miles)	Up-grading infrastructure to meet system load growth

Year: 2019

Wilson – Sacramento 69 kV Line (10.9 miles)	Up-grading infrastructure to meet system load growth
Re-Conductor Thruston Jct.-E. Owensboro with 336 MCM (3.5 miles)	Up-grading infrastructure to meet system load growth
Re-Conductor Daviess Co. Philpot Tap with 336 MCM (9.9 miles)	Up-grading infrastructure to meet system load growth
Custer Substation and Transmission Line Additions (50 MVA)	Up-grading infrastructure to meet system load growth

Year: 2020