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April 25, 2013

Mr. Jeff D. Cline  
Public Service Commission of Kentucky  
P.O. Box 615  
211 Sower Boulevard  
Frankfort, KY 40602-0615

Re: Big Rivers Electric Corporation

\*Also Licensed in Indiana

Dear Mr. Cline:

Enclosed for filing on behalf of Big Rivers Electric Corporation are two copies of its supplement to its annual Finance and Statistical Report (Annual Report) required by the Public Service Commission's Order dated October 7, 2005, in Administrative Case 387. Additionally, an original and ten copies of a petition for confidential protection 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.

Please feel free to contact me with any questions.

Sincerely,



Tyson Kamuf

cc: DeAnna Speed  
Roger Hickman  
John Talbert  
Michael Mattox  
Larry Baronowsky  
Chris Bradley


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**ORIGINAL**



Your Touchstone Energy® Cooperative 

**COMMONWEALTH OF KENTUCKY**

**BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY**

**In the Matters of:**

**SUPPLEMENTAL INFORMATION            )**  
**PROVIDED WITH                    )** **Administrative Case**  
**BIG RIVERS' ANNUAL FINANCIAL        )** **No. 387**  
**AND STATISTICAL REPORT            )**

**REQUEST OF BIG RIVERS                )**  
**ELECTRIC CORPORATION FOR AN        )**  
**EXTENSION TO FILE THE ANNUAL        )** **Case No. 2013-00060**  
**INFORMATION REQUIRED BY AN        )**  
**ORDER IN ADMINISTRATIVE CASE        )**  
**NO. 387**

**FILED:        April 25, 2013**

**ORIGINAL**

**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 25, 2013**

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

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

**Respondent)** Michael J. Mattox

**BIG RIVERS ELECTRIC CORPORATION**  
**SUPPLEMENTAL INFORMATION PROVIDED WITH**  
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**April 25, 2013**

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

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

**Witness)**   Michael J. Mattox

**BIG RIVERS ELECTRIC CORPORATION**  
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**April 25, 2013**

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

- a. native load demand (firm and non-firm) and*
- b. off-system demand (firm and non-firm).*

**Response)** Table 3-G shows the actual and weather normalized native load demand and the off-system coincident demand for 2012. Big Rivers sells its surplus power into the market and therefore the off-system sales cannot be weather normalized.

**Respondent)** Michael J. Mattox

## Table 3-G

### BIG RIVERS ELECTRIC CORPORATION

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

Month	Native Load		Off-System Sales	
	All Firm		Off-System Demand	
	Peak Demand		Firm	Non-Firm
	Actual	Weather Normalized		
Jan-12	1424	1506	0	0
Feb-12	1384	1436	0	0
Mar-12	1338	1404	0	0
Apr-12	1319	1313	0	0
May-12	1423	1363	0	0
Jun-12	1504	1435	0	0
Jul-12	1523	1478	0	0
Aug-12	1497	1513	0	0
Sep-12	1423	1381	0	0
Oct-12	1277	1300	0	0
Nov-12	1378	1355	0	0
Dec-12	1390	1484	0	0

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

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

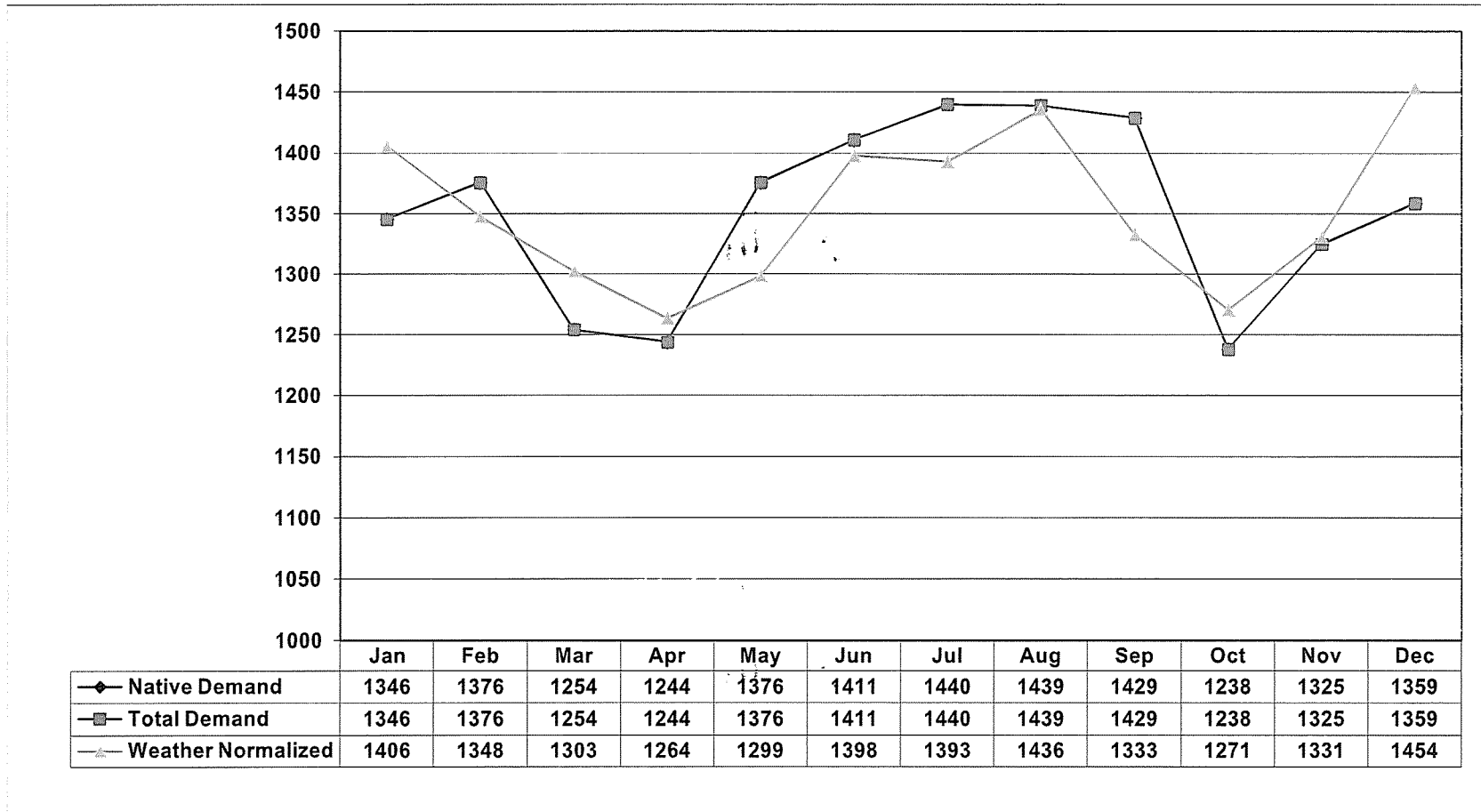
**Response)** Graph 4-G shows the monthly native load demand with the monthly weather normalized native load demand for 2012. The total curve represents the native load plus any actual off-system sales at the time of the native load peak.

**Respondent)** Michael J. Mattox

## Graph 4-G

### BIG RIVERS ELECTRIC CORPORATION

NATIVE LOAD AND TOTAL COINCIDENT PEAK DEMANDS (MW) - 2012





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

- a. 70% of the sum of installed generating capacity plus firm capacity purchases;*
- b. 80% of the sum of installed generating capacity plus firm capacity purchases;*
- c. 90% of the sum of installed generating capacity plus firm capacity purchases.*

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

**Respondent)**     Michael J. Mattox

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

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

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

**Respondent)** Michael J. Mattox

**Table 6-G**

**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)
2013	1,524	9,283,422	1,541	9,425,940	0	0	0	0
2014	1,064	3,754,665	1,069	3,896,892	0	0	0	0
2015	689	3,514,422	705	3,662,168	0	0	0	0
2016	697	3,552,185	714	3,700,846	0	0	0	0
2017	704	3,586,251	730	3,751,580	0	0	0	0

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

**Response)** The current target reserve margin used for planning purposes is 6.2% as specified by MISO for the upcoming planning year effective June 1, 2013.

**Respondent)** Michael J. Mattox

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

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

**Table 1**

<u>Year</u>	<u>Reserve Margin (MW)</u>	<u>Reserve Margin (%)</u>	<u>Firm Capacity Purchases (MW)</u>	<u>Projected Deficit</u>
2013	226	12%	178	0
2014	686	37%	178	0
2015	1,060	57%	178	0
2016	1,052	57%	178	0
2017	1,044	57%	178	0

**Respondent)** Michael J. Mattox

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

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

**Respondent)** Michael J. Mattox

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

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

**Respondent)** Lawrence V. Baronowsky

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

**Response)** There are no retirements of generating capacity anticipated through 2017; however, [REDACTED]

[REDACTED]. The planned maintenance outage schedule for 2013 through 2017 is being provided pursuant to a Petition for Confidential Protection. The schedule is regularly modified based on actual operating conditions, forced outages, changes in the schedule required to meet environmental regulation compliance, fluctuation in wholesale prices, and other unforeseen events that may affect unit reliability or generation capacity. The scheduled outages for all units are listed below:

**Wilson Unit 1**

2013  
2014  
2015  
2016  
2017





**BIG RIVERS ELECTRIC CORPORATION**

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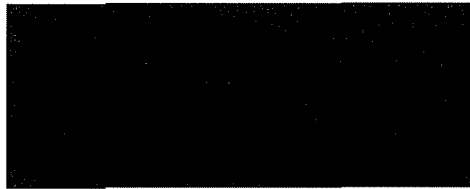
**Green Unit 1**

2013  
2014  
2015  
2016  
2017



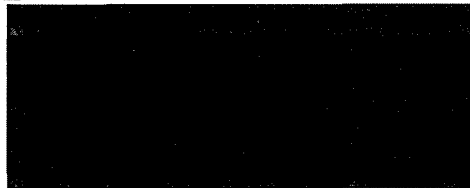
**Green Unit 2**

2013  
2014  
2015  
2016  
2017



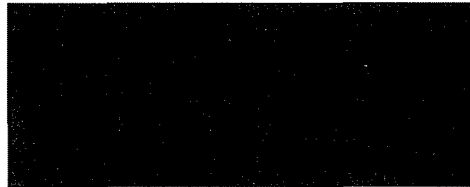
**HMP&L Unit 1**

2013  
2014  
2015  
2016  
2017



**HMP&L Unit 2**

2013  
2014  
2015  
2016  
2017



**BIG RIVERS ELECTRIC CORPORATION**

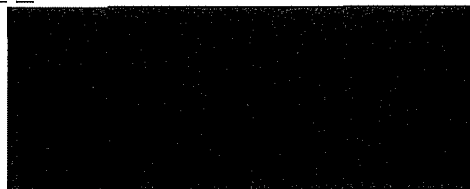
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**April 25, 2013**

**Coleman Unit 1**

2013  
2014  
2015  
2016  
2017



**Coleman Unit 2**

2013  
2014  
2015  
2016  
2017



**Coleman Unit 3**

2013  
2014  
2015  
2016  
2017



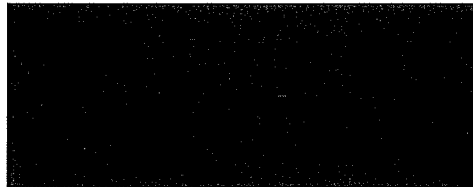
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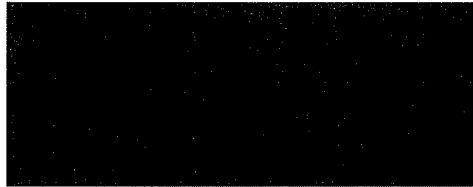
**Reid Unit 1**

2013  
2014  
2015  
2016  
2017



**Reid Combustion Turbine**

2013  
2014  
2015  
2016  
2017



**Respondent)**      Lawrence V. Baronowsky

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

**Response)** Big Rivers presently has no plans to make base load or peaking capacity additions to meet native load requirements for the years 2013 through 2022.

**Respondent)** Michael J. Mattox

**BIG RIVERS ELECTRIC CORPORATION**

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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>
2012	11,118,663	4,099,956	15,218,619

Projected System Energy Received (MWh)

2013	16,000,000
2014	16,000,000
2015	16,000,000
2016	16,000,000
2017	16,000,000

15

16

**BIG RIVERS ELECTRIC CORPORATION**

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1

b.

Transmission System Energy Delivered at Interconnections  
(MWh)

	<u>Total</u>
2012	4,863,154

Projected System Energy Delivered at Interconnection  
(MWh)

2013	5,000,000
2014	5,000,000
2015	5,000,000
2016	5,000,000
2017	5,000,000

2

3

c.

Transmission Peak Capacity (MW)  
2012 2,903

Projected Transmission Peak Capacity (MW)

2013	2,903
2014	2,903
2015	2,903
2016	2,903
2017	2,903

4

5

6

**BIG RIVERS ELECTRIC CORPORATION**

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1

d.

	<u>Transmission System Peak Demand (MW)</u>	
	<u>Winter</u>	<u>Summer</u>
2012	1,428	1,555

	<u>Projected System Peak Demand (MW)</u>	
	<u>Winter</u>	<u>Summer</u>
2013	1,589	1,589
2014	1,613	1,613
2015	1,617	1,617
2016	1,624	1,624
2017	1,628	1,628

2

3

4

**Respondent)** Christopher S. Bradley

5

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

**Response)** Attached hereto is a listing of Big Rivers' Transmission Capacity Additions for 2013 through 2022.

**Respondent)** Christopher S. Bradley