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PUBLIC SERVICE
COMMISSION

Your Touchstone Energy® Cooperative 

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

**APPLICATION OF BIG RIVERS)
ELECTRIC CORPORATION FOR A) Case No. 2013-00199
GENERAL ADJUSTMENT IN RATES)**

**Response to the Office of the Attorney General's
Initial Request for Information
dated August 19, 2013**

Volume 2 of 3

FILED: September 3, 2013

ORIGINAL

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
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1 **Item 66)** *Please state and describe the financial impact of all legal and other issues*
2 *which were in dispute with the City of Henderson regarding the operation of HMPL*
3 *Station Two, but were resolved since June 1, 2012.*

4

5 **Response)** There have been no legal or other issues which were in dispute with the City
6 of Henderson regarding the operation of HMP&L Station Two that have been resolved since
7 June 1, 2012. Please see Big Rivers' response to AG 1-65.

8

9 **Witness)** Robert W. Berry

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1 **Item 67)** *As to Big Rivers' budgeting for costs associated with HMPL, has Big Rivers*
2 *included all costs associated with the rulings arising out of the litigation/arbitration with*
3 *HMPL?*

4

5 **Response)** Please refer to Big Rivers' response to AG 1-65.

6

7 **Witness)** Robert W. Berry

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1 **Item 68)** *Please provide Big Rivers' calculation of its share of the costs related to the*
2 *dispatch and operation of HMP&L's Station Two generating station included in the Big*
3 *Rivers' financial forecast used in this case. Information should include spreadsheets, etc.*
4 *in electronic format compatible with Microsoft Office programs.*

5

6 **Response)** Please reference the Monthly Resource Report tab of the CONFIDENTIAL
7 electronic file entitled "PSC 1-57 – Big Rivers 2013-2016 PCM – CONFIDENTIAL.xlsx"
8 provided in response to PSC 1-57.

9

10 **Witness)** Robert W. Berry

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1 **Item 69)** *Include on a current and updated basis all costs associated with possible*
2 *MISO requirement of HMPL operation with any Sebree smelter contract similar to the*
3 *Century agreement for Hawesville smelter.*

4

5 **Response)** The HMP&L Station Two plant is owned by Henderson Municipal Power and
6 Light; therefore, no analysis has been performed under this scenario.

7

8 **Witness)** Robert W. Berry

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1 **Item 70)** *If the Commission should approve the full amount of the increase the*
2 *Company seeks in Case No. 2012-00535 (the Hawesville smelter case), state, in terms of*
3 *percentages, the amount of the increase for both classes that will result (as contrasted with*
4 *BREC's current approved rates).*

5 *a. Added to the BREC-proposed increase in Hawesville case (2012-00535),*
6 *identify in terms of percentages the combined effect of the increases the*
7 *company seeks in the instant case (the Sebree smelter case) and Hawesville*
8 *case on both classes.*

9 *b. After reserves have been applied and exhausted, as per BREC's proposal in*
10 *the instant case, what will the percentage increase be (again, in terms of the*
11 *combined effects of both the Hawesville and Sebree smelter cases,*
12 *contrasted with BREC's current approved rates?*

13

14 **Response)** Please see the attachment to Tab No. 6 of the Application, on the pages
15 entitled *Schedule Showing the Amount of Rate Change Requested in Both Dollar Amounts*
16 *and Percentage Change for Each Customer Classification for which the Proposed Rate*
17 *Change will Apply [Gross of MRSM & RER] and Schedule Showing the Amount of Rate*

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- 1 *Change Requested in Both Dollar Amounts and Percentage Change for Each Customer*
- 2 *Classification for which the Proposed Rate Change will Apply [Net of MRSM & RER].*
- 3
- 4 **Witness)** John Wolfram

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- 1 **Item 71)** *Confirm the following:*
- 2 *a. BREC currently owns or has rights to 1,819MW of capacity;*
- 3 *b. BREC's expected 2013 peak demand will be 1,529MW;*
- 4 *c. BREC currently has a reserve margin of 19%;*
- 5 *d. the Midcontinent Independent System Operators ("MISO") currently has a*
- 6 *14.2% reserve margin requirement;*
- 7 *e. after the Hawesville smelter leaves the BREC system, the Company's load*
- 8 *will decline to 1,047MW, which will result in a 74% reserve margin;*
- 9 *f. the departure of the Sebree smelter will reduce BREC's peak load to*
- 10 *679MW, which will leads to a reserve margin of 168%;*
- 11 *g. If BREC cannot confirm these reserve margins, please state reserve margins*
- 12 *on the same basis as above, and provide supporting calculations.*

13

14 **Response)**

- 15 a. Confirmed. Please see Big Rivers' responses to parts b. through f., below.
- 16 b. Not confirmed. Big Rivers expects its coincident peak to be 1,497 in 2013.
- 17 c. Not confirmed. Big Rivers' estimated reserve margin is 22% for 2013.
- 18 (1819 MW Generation) / (1497 Peak 2013) - 1

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- 1 d. Not confirmed. Per MISO Business Practices Manual (“BPM”)-011r12 the
2 Planning Reserve Margin Requirement (“PRMR”) is not a percentage value.
3 PRMR is a MW value determined for each Load Serving Entity in MISO. Big
4 Rivers notes that per MISO BPM-011r12, page 24, MISO has a 14.2%
5 Coincident Load Based (ICAP) 14.2% Planning Reserve Margin (“PRM”) and
6 a Coincident Load Based (UCAP) 6.2% PRM for the 2013-2014 Planning
7 Year.
- 8 e. Not confirmed. After the Hawesville Smelter leaves the BREC System, Big
9 Rivers plans to idle the Coleman Station. At such time, Big Rivers reserve
10 margin will be roughly 36.5%. (1819 MW Generation – 443 MW Coleman) /
11 (1497 Peak 2013 - 489 Century with Losses) - 1
- 12 f. Not confirmed. After the Sebree Smelter leaves the BREC System, Big
13 Rivers plans to idle the Wilson Station. At such time, Big Rivers reserve
14 margin will be roughly 50.8%. (1819 MW Generation – 443 MW Coleman –
15 417 Wilson) / (1497 Peak 2013 - 489 Century Hawesville with Losses – 372
16 Century Sebree with Losses) - 1
- 17 g. Please see Big Rivers’ responses to parts a.-f., above.
- 18

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1 **Witness)** Lindsay N. Barron

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- 1 **Item 72)** *Referring to BREC's response to PSC 1-1:*
- 2 *a. Please provide all documents prepared for and presented to the BREC*
- 3 *Board or membership explaining the February 27, 2013 changes to the*
- 4 *Amended Bylaws of Big Rivers Electric Corporation.*
- 5 *b. Please explain why the February 27, 2013 changes were made to the*
- 6 *Amended Bylaws of Big Rivers Electric Corporation.*

7

8 **Response)**

- 9 a. Please see attached.
- 10 b. The bylaws were amended to reflect changes made in positions and
- 11 responsibilities of certain employees of the corporation.

12

13 **Witness)** Mark A. Bailey

Attachment for Response to AG 1-72(a)

ARTICLE IV

OFFICERS:

SECTION 1. Officers Authorized. The officers of the corporation shall be a Chair, Vice Chair, President, Secretary-Treasurer, and ~~Vice President-Production~~Chief Operating Officer. The Chair, Vice Chair and Secretary-Treasurer shall be elected by and from the membership of the Board of Directors. The President shall be elected by the Board of Directors. The ~~Vice President-Production~~Chief Operating Officer shall be appointed by the President. The Board of Directors may appoint an Executive Secretary and one or more Assistant Secretaries, who need not be members of the Board of Directors, to perform such duties and to have such powers of the secretary as shall from time to time be assigned to the Executive Secretary or to any Assistant Secretary by the Board of Directors or by the Secretary.

ARTICLE V

DUTIES OF OFFICERS:

SECTION 5. ~~Vice President-Production~~Chief Operating Officer. The ~~Vice President-Production~~Chief Operating Officer shall direct all activities related to operation and maintenance of the Corporation's generating facilities, including fuels procurement and management and power plant engineering; manage the energy services functions of the Corporation, including responsibility for generation and purchase resources, and wholesale power marketing activities; ~~system operations, environmental services and construction~~ and perform generally all duties incident to the office of ~~Vice President-Production~~Chief Operating Officer, along with such other duties as may be prescribed by the Board of Directors from time to time.

SECTION 7. Absence or Disability of President. If the President is absent or becomes disabled, the ~~Vice President-Production~~Chief Operating Officer shall have all the powers and be subject to all the duties of the President so long as such absence or disability continues.

Attachment for Response to AG 1-72(a)

SECTION 8. Compensation of Officers. The compensation of the officers of the corporation shall be fixed from time to time by the Board of Directors, except the compensation of the ~~Vice President Production~~Chief Operating Officer whose compensation shall be fixed by the President.

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1 **Item 73)** *Mr. Bailey (page 6, lines 3-6) states that the rate increase is required to*
2 *“continue to prudently operate and maintain its generating units, satisfy its obligations*
3 *under its loan agreements, and attract the capital necessary”. Address the following and*
4 *provide updates on a continuing basis:*

5 *a. For the period 2011 through 2013 YTD, provide copies of all reports,*
6 *correspondence, and documentation provided by Big Rivers to rating*
7 *agencies regarding the Company’s financial health and related issues*
8 *addressed at Mr. Bailey’s testimony above.*

9 *b. For the period 2011 through 2013 YTD, provide copies of all reports,*
10 *correspondence, and documentation provided by rate agencies to Big Rivers*
11 *regarding concerns with the Company’s financial health and related issues*
12 *addressed at Mr. Bailey’s testimony above.*

13 *c. Regarding items (a) and (b) above, provide the most recent specific*
14 *requirements and recommendations of rating agencies and provide related*
15 *supporting documentation (reports, etc.).*

16 *d. For the period 2011 through 2013 YTD, provide the amount paid by Big*
17 *Rivers to outside consultants to address matters in (a) to (c) above, and*
18 *provide the names of all consultants, the amounts paid by account number,*

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- 1 *a copy of all contracts, and a copy of all reports and recommendations of*
2 *the consultants. Identify all amounts included in the base period (show*
3 *actual and forecasted amounts separately) and forecasted test period by*
4 *account number, explain why these amounts differ from "actual" amounts,*
5 *provide all supporting documentation and calculations, and explain why*
6 *these amounts should be included.*
- 7 *e. For the period 2011 through 2013 YTD, provide the amount paid by Big*
8 *Rivers to rating agencies regarding the matters in (a) to (c) above, and*
9 *provide the names of the rating agencies, the amounts paid by account*
10 *number, a copy of all contracts, and a copy of all reports and*
11 *recommendations of the rating agency. Identify all amounts included in the*
12 *base period (show actual and forecasted amounts separately) and forecasted*
13 *test period by account number, explain why these amounts differ from*
14 *"actual" amounts, provide all supporting documentation and calculations,*
15 *and explain why these amounts should be included.*
- 16 *f. Explain if the rating agencies have expressed an opinion or made*
17 *recommendations regarding various significant issues facing Big Rivers*
18 *(i.e., loss of Century smelter, status with Alcan smelter and/or loss of its*

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1 *load, depreciation rates, rate case, etc.), and provide all related*
2 *documentation from rating agencies addressing these matters.*

3
4 **Response)** Big Rivers objects to this request on the grounds that it is overly broad and
5 unduly burdensome. Big Rivers also objects to this request on the grounds that it seeks
6 information that is irrelevant and not likely to lead to the discovery of admissible evidence.
7 Notwithstanding these objections, but without waiving them, Big Rivers states as follows.

8 a. Please see electronic attachments to this response for copies of all reports,
9 correspondence, and documentation between Big Rivers and rating agencies
10 for the period February 13, 2013 through September 3, 2013. Please see Big
11 Rivers' response to Item 1 of the supplemental request for information by the
12 KIUC dated February 5, 2013, in Case No. 2012-00492 for copies of all
13 reports, correspondence, and documentation between Big Rivers and rating
14 agencies, for the period January 1, 2013 through February 12, 2013. Please
15 see Big Rivers' response to Item 9 of the initial request for information by
16 KIUC dated December 19, 2012, in Case No. 2012-00492 for copies of all
17 reports, correspondence, and documentation between Big Rivers and rating
18 agencies, for the period January 1, 2012 through January 3, 2013. Please see

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- 1 Big Rivers' responses to Item 31 and Item 33 of the initial request for
2 information by the Attorney General dated May 21, 2012, in Case No. 2012-
3 00063 for copies of all reports, correspondence, and documentation between
4 Big Rivers and rating agencies, for the period January 1, 2011 through May
5 21, 2012.
- 6 b. Please see Big Rivers' response to subpart (a), above, for copies of the reports,
7 correspondence, and documentation provided by rating agencies to Big
8 Rivers.
- 9 c. Please refer to the rating agencies' opinions and reports issued and provided in
10 Big Rivers' responses to AG 1-6 and AG 1-7.
- 11 d. For the period 2011 through 2013 YTD, Big Rivers has not made payments to
12 any outside consultants to address matters in subparts (a) to (c), above. Please
13 refer to Tab 49 of the Application in this case for forecasted professional
14 service expenses. The forecasted amounts for outside consultants included in
15 the base period and forecasted test period are not broken out in the level of
16 detail requested. However, if vendors are known, amounts in the forecasted
17 base period and forecasted test period are broken out to specific vendors.

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- 1 e. For the period 2011 through 2013 YTD, Big Rivers has not made any
2 payments to rating agencies regarding the matters in (a) to (c) above. Please
3 see Big Rivers' response to subpart (d) above for amounts included in the
4 forecasted base period and forecasted test period.
- 5 f. Please refer to rating agencies' opinions and reports issued and provided in
6 Big Rivers' responses to AG 1-6 and AG 1-7.

7

8 **Witness)** Billie J. Richert

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

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1 **Item 74)** *Reference the Berry testimony at p. 13, where it states load replacement*

2 *"will require three or four years to come to full fruition."*

3 a. *Explain fully why the length of time necessary to achieve mitigation was not*
4 *factored into the wholesale and retail contracts with Century and Alcan.*

5 b. *Explain why no effort was made to begin mitigation efforts when aluminum*
6 *prices reached any certain threshold amounts, and why mitigation efforts*
7 *only began when Big Rivers received Century's termination notice.*

8
9 **Response)**

10 a. When the Unwind negotiations were underway, the wholesale power market
11 was very strong. At the time of the Unwind, the smelters wanted to be
12 customers of Big Rivers to avoid wholesale market prices, thus the trend was
13 expected to continue and Big Rivers believed it would have a viable outlet for
14 any excess energy in the future. The national recession had a significant
15 impact on electricity consumption throughout the nation. The drastic
16 downturn in the wholesale market was neither expected nor predicted as a
17 reasonable possibility by the industry.

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1 b. Until the time of the smelters notice of contract termination, Big Rivers had an
2 obligation to provide wholesale power to Kenergy to serve the smelters under
3 their contracts and was unable to begin mitigation efforts. It was unfeasible
4 for Big Rivers to begin mitigation efforts prior to receiving notice from the
5 smelters; however, Big Rivers was developing a plan to deal with the situation
6 if and when it occurred. At the time of the Unwind transaction, July 2009,
7 when the smelters executed their current contracts, the LME price of
8 aluminum was \$1,777 per metric ton. Century's notice was received in
9 August 2012 and the LME price of aluminum was \$2,046. The December
10 2012 LME price was \$2,327. Given the variations in LME prices throughout
11 these time periods, Big Rivers does not believe it is reasonable to rely on
12 LME as an indicator of smelter economic viability.

13

14 **Witness)** Robert W. Berry

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1 **Item 75)** *Has Mr. Bailey or anyone else on behalf of BREC spoken to Kenergy CEO*
2 *Starheim and the other member CEOs about the anticipated member retail impacts of the*
3 *proposed revenue increase in this case? Please provide copies of any and all*
4 *correspondence, reports and/or any related documents in this regard.*

5

6 **Response)** Yes. Please see the attached electronic file(s).

7

8 **Witness)** Mark A. Bailey

**ELECTRONIC
ATTACHMENT(S)
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1 **Item 76)** *Reference the Bailey testimony, p. 5, l. 16-19. Please show the calculations*
2 *necessary, and identify where in the application the calculations can be located) to*
3 *establish Mr. Bailey's statement that "temporarily" laying up another generating plant will*
4 *be "able to offset most of the revenue needed to make up for the Alcan contract*
5 *termination".*

6 *a. State Big Rivers' current anticipation of when (what year) it would restart*
7 *Wilson Station based on Big Rivers' implementation and operation of its*
8 *"Mitigation Plan," assuming no "must run" status.*

9 *b. State Big Rivers' current anticipation of when (what year) it would restart*
10 *Coleman Station based on Big Rivers' implementation and operation of its*
11 *"Mitigation Plan," assuming no "must run" status.*

12
13 **Response)** Please see the attachment to this response for the layup savings. Because
14 Wilson Station is intended to be laid-up in response to the Sebree smelter termination, the
15 costs associated with operating Wilson Station were excluded from the "O&M" worksheet
16 for incorporation of the labor & non-labor reductions, the "PCM" worksheet for variable
17 costs, and the "Fuel" worksheet for fuel expense in the financial model produced in response
18 to PSC 1-57.

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- 1 a. Please see Big Rivers' response to PSC 2-14.
- 2 b. Please see Big Rivers' response to PSC 2-14.
- 3
- 4 **Witness)** Robert W. Berry

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Attachment for Response to AG 1-76

Plant Layup Savings (\$ millions)

| | |
|---------------------------------|------------|
| Alcan Revenue Loss | \$ 155 |
| Savings: | |
| Variable Costs | ██████████ |
| Wilson Non-Labor Expenses | ██████████ |
| Wilson Labor Reduction | \$ 11 |
| Total Savings | ██████████ |
| Deficiency after Savings | ██████████ |

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1 **Item 77)** *Break down the \$46.7 million in "Alcan contribution to Big Rivers' costs,"*
2 *per Bailey testimony at page 5, line 23, into the revenue requirement components of*
3 *depreciation, interest, operating expenses, other expenses, plant assets, accumulated*
4 *depreciation, and all other rate base and revenue requirement components. Provide the*
5 *amounts included in the base period (show actual and forecasted amounts separately) and*
6 *the forecasted test period by account number and provide all supporting documentation*
7 *and calculations.*

8
9 **Response)** Please see Big Rivers' response to AG 1-84.

10

11 **Witness)** John Wolfram

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1 **Item 78)** *Please refer to the Bailey testimony at page 9, line 7 where it states the*
2 *Century “contracts should have no financial impact on this case at this time.” (Emphasis*
3 *added.)*

4 *a. Describe in detail why it is necessary for Mr. Bailey to qualify this statement*
5 *with “at this time.”*

6 *b. The need to qualify this statement suggests that there may be a time at*
7 *which the contracts will have a financial impact. Describe in detail when*
8 *and under what circumstances the contracts would have a financial impact.*

9
10 **Response)** As stated on page 9, line 6 of Mr. Bailey’s testimony, the reason for this
11 statement is found in the testimony of Robert W. Berry. Please refer to that testimony,
12 Application Tab 63, page 16:17 through page 17:21. Also please refer to Big Rivers’
13 response to AG 1-1 in Case No. 2013-00221.

14
15 **Witness)** Robert W. Berry

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- 1 **Item 79)** *Please refer to the Bailey testimony at page 6, line 11 where it states access*
2 *to the capital markets will be on “a limited basis at first.”*
- 3 *a. Describe in detail what Big Rivers means by a “limited basis” for access to*
4 *capital markets. If assumptions are necessary, state the assumptions.*
- 5 *i. In what ways will access to capital be limited?*
- 6 *ii. State to the best of Big Rivers’ knowledge precisely what those limits*
7 *will be for the next two years.*
- 8 *b. Big Rivers further qualifies the statement by “at first.” State how long this*
9 *“at first” period is anticipated by Big Rivers to last.*

10
11 **Response)**

- 12 a. Please see below for an explanation of the “limited basis” for access to capital
13 markets.
- 14 i. Accessing capital markets for long-term financing encompasses
15 having access to public financing; private placements; asset-based
16 lending; leveraged financing; syndicated financing, issuance of high
17 grade and high yield debt. Big Rivers has limited availability to access
18 each of these types of financing vehicles, at a cost-effective rate, due

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1 to the present credit ratings issued by the three major rating agencies;
2 the uncertainty surrounding the outcome of the pending rate cases; and
3 the 850 MW load reduction stemming from the smelters' termination
4 notices.

5 ii. See Big Rivers' response to subpart (a)(i), above. Over the next two
6 years, Big Rivers' access to the full complement of capital market
7 opportunities could be limited to costly private placements for high-
8 risk investments resulting largely from the lack of a minimum of two
9 investment grade ratings and questions regarding the regulatory
10 support that will be afforded to Big Rivers.

11 b. Please see Big Rivers' response to subpart (a)(ii) above.

12

13 **Witness)** Billie J. Richert

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1 **Item 80)** *Reference the Bailey testimony at p. 6, l. 11-12. Identify which specific*
2 *capital markets BREC will be able to access if it is granted the full amount of revenue it*
3 *seeks in the instant case.*

4

5 **Response)** Please see Big Rivers' response to AG 1-79.

6

7 **Witness)** Billie J. Richert

BIG RIVERS ELECTRIC CORPORATION

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FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199**

**Response to the Office of the Attorney General's
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September 3, 2013

1 **Item 81)** *Reference the Bailey testimony at p. 10, l. 12-14. Provide a breakdown of the*
2 *retail rate increase based on retail customer usages of 800 kWh, 900 kWh, 1000 kWh,*
3 *1100 kWh, 1200 kWh, 1400 kWh and 1500 kWh.*

4

5 **Response)** Please refer to the Direct Testimony of John Wolfram, Exhibit Wolfram-7.

6

7 **Witness)** John Wolfram

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1 **Item 82)** *Reference the Bailey testimony p. 15, l. 8-10. What methods designed to put*
2 *BREC "on a path of recovery" other than rate increases has BREC explored? If none,*
3 *explain in complete detail why not.*

4
5 **Response)** In designing its rates and planning for its operations after Century's and/or
6 Alcan's termination, Big Rivers planned for long-term success and developed an operational
7 strategy likely to produce long-term benefits to its Members and their member-owners. To
8 address the long-term interests of its Members, Big Rivers researched and developed its
9 mitigation plan over the past several years to help mitigate the adverse financial
10 consequences of a potential smelter closure. Now that both smelters have given notice of the
11 termination of their contracts, Big Rivers is implementing the mitigation plan not only to
12 increase revenues to address its immediate financial needs, but also to reduce the long-term
13 impact of the resulting rate cases on its Members.

14 For the continued benefit of its Members, and consistent with the Commission's
15 expectations set forth as part of the Unwind Transaction, Big Rivers has approached this
16 question of available generation capacity resulting from the termination of the smelter
17 contracts as a unique opportunity to benefit its Members.

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1 Big Rivers has identified numerous opportunities in the medium- and long-term
2 markets and has in fact pursued numerous requests for proposal to provide power to other
3 utilities, both in Kentucky and in other states. Medium- and long-term firm power sales
4 contracts will obviously command a premium over current, day-ahead and hourly prices.
5 Similarly, Big Rivers reasonably anticipates an eventual increase in off-system sales revenue,
6 as indicated by its research on the likely effects of MATS compliance on older coal-fired
7 generation in the region, as well as the likely trajectory of the cost of coal generation relative
8 to the costs of natural gas generation.

9 Big Rivers has also explored and continues to actively explore the possibility of
10 selling certain generation assets. It is currently engaged in discussions with multiple entities
11 about the possible sale of the Wilson Station or the Coleman Station, and it has set a price on
12 both plants.

13 In addition to the cost savings and potential revenue increases resulting from the
14 possible idling or sale of a power plant, Big Rivers also expects to increase revenues by
15 marketing its available generation capacity in order to increase off-system sales. Big Rivers
16 has invested significant time and energy into researching the market and developing its off-
17 system sales plan. Based on this research, Big Rivers reasonably anticipates that increased
18 off-system sales will benefit its Members and their member-owners when wholesale

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1 electricity prices have recovered from their current slump, currently expected to occur around
2 2019.

3 Big Rivers is actively pursuing bilateral sales and wholesale power agreements to
4 take advantage of those opportunities. Big Rivers has already responded to multiple requests
5 for proposal and initiated informal discussions with still other potential counterparties. Big
6 Rivers is also able to pursue interstate opportunities due to its participation in Midcontinent
7 Independent System Operator, Inc. ("MISO").

8 Please also see the response to PSC 2-16.

9
10 **Witness)** Mark A. Bailey

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1 **Item 83)** *Reference the Bailey testimony at p. 15, l. 15-17. If BREC is not granted all*
2 *the rate relief it requested in both the Century rate case and the instant case, describe any*
3 *and all methods BREC is prepared to pursue to avoid having to file for bankruptcy*
4 *reorganization.*

5

6 **Response)** Big Rivers objects that this request seeks information subject to the attorney-
7 client and attorney work product privileges. Notwithstanding this objection, but without
8 waiving it, Big Rivers states that if it is not granted the rate relief requested in Cases No.
9 2012-00535 and 2012-00199 (the "Rate Cases"), it will evaluate its circumstances at that
10 time. Absent further information regarding the consequences of the Commission's orders in
11 the Rate Cases, the status of Big Rivers' Load Concentration Analysis and Mitigation Plan at
12 that time, and any other regulatory matters that may be pending or approaching, this request
13 cannot be answered. For purposes of clarity, Big Rivers remains opposed to bankruptcy, and
14 it believes that bankruptcy does not serve the best interests of its members.

15

16 **Witness)** Mark A. Bailey

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1 **Item 84)** *Reference Mr. Bailey's testimony at p. 4, l. 16-18 where he states that the*
2 *rate relief Big Rivers is seeking in this case is necessary to replace the net revenues that*
3 *Big Rivers will lose beginning January 31, 2014 as a result of the termination of Alcan.*
4 *Also, at p. 5, line 21 he identifies \$70.4 million in new revenues that Alcan will need when*
5 *the Alcan contract termination takes effect, and at p. 5, l. 23 and p. 6., l.1-2 he explains*
6 *that the \$70.4 million in new revenues consists of Alcan's contribution to Big Rivers' costs*
7 *of about \$46.7 million and a portion of Century revenues allocated to Alcan in the Century*
8 *rate case of about \$23.7. Address the following:*

9 *a. Mr. Bailey's testimony gives the impression that the entire \$70.4 million in*
10 *new revenues requested in this rate case, Case No. 2013-00199 ("CN*
11 *00199") is related to the loss of Alcan revenues, but if this is the case then*
12 *why is it necessary to change or revise all other costs included in this*
13 *revenue requirement in this case compared to the forecasted revenue*
14 *requirement in the prior rate case, Case No. 2012-00535 ("CN 00535")?*
15 *Why didn't Big Rivers merely take the forecasted revenue requirement from*
16 *the prior rate case and add in the \$68.6 million of revised requested relief*
17 *from the prior rate case, and then only make adjustments to costs in this*
18 *rate case only related to the loss of Alcan? Explain why this would not have*

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1 *been an easier and more cost effective and efficient manner of filing this*
2 *rate case.*

3 *b. Mr. Bailey's testimony gives the impression that the entire \$70.4 million in*
4 *new revenues requested in this rate case is related to the loss of Alcan*
5 *revenues, but isn't BREC also seeking rate relief based for other costs based*
6 *on changes to forecasted amounts that vary from historical amounts?*
7 *Explain why it is necessary to propose and seek increases in other costs in*
8 *this rate case if the entire rate case is supposedly only related to the loss of*
9 *Alcan revenues of \$70.4 million as claimed by Mr. Bailey.*

10 *c. Explain where the requested revised rate relief revenues of \$68.6 million*
11 *from the prior rate case are included in this rate case and show amounts by*
12 *account number for the base period (show actual and forecasted amounts*
13 *separately) and the forecasted test period. Alternatively, explain why Big*
14 *Rivers did not include these new revenues in this rate case if it is supposedly*
15 *only based on the loss of just Alcan, and not based on the prior loss of*
16 *Century also. Provide supporting documentation and calculations.*

17 *d. Identify all overlap of revenues and costs related to the loss of Century in*
18 *the prior rate case CN 00535 and the loss of Alcan in the current rate case*

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- 1 *CN 00199, and show all amounts by account number and for the base*
2 *period (show actual and forecasted amounts separately) and the forecasted*
3 *test period. Provide supporting documentation and calculations and explain*
4 *why this overlap of costs is reasonable and does not represent double-*
5 *recovery of the same type of costs in both of these rate cases.*
- 6 *e. Regarding Alcan's contribution to Big Rivers' costs of about \$46.7 million*
7 *and a portion of Century revenues allocated to Alcan in the Century rate*
8 *case of about \$23.7 million, provide these Alcan-specific costs by account*
9 *number and description in the base period (show actual and forecasted*
10 *amounts separately) and forecasted test period and provide all related*
11 *supporting documentation and calculations.*
- 12 *f. Regarding the portion of Century revenues allocated to Alcan in the*
13 *Century rate case of about \$23.7 million, show these amounts of revenues*
14 *and costs by account number that were included in the base period (show*
15 *actual and forecasted amounts separately) and forecasted test period of the*
16 *prior rate case CN 00535, and provide related supporting documentation*
17 *and workpapers.*

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1 g. *Explain why the \$23.7 million of Century revenues allocated to Alcan in the*
2 *Century rate case is not an overlap of amounts that BREC included in its*
3 *revised requested revenues of \$68.6 million in the prior rate case CN 00535*
4 *and explain why this does not represent a double-recovery of costs in this*
5 *rate case CN 00199 and the prior rate case 00535. Provide all supporting*
6 *documentation and calculations.*

7
8 **Response)** Big Rivers objects that these requests are argumentative and that Mr. Bailey
9 did not testify that Alcan would need new revenues. Notwithstanding this objection, and
10 without waiving the same, Big Rivers states as follows.

11 a. One reason that Big Rivers did not “merely take the forecasted revenue
12 requirement from the prior rate case and add in the \$68.6 million” plus other
13 adjustments is because doing so would be inconsistent with the applicable
14 statutes. KRS 278.192 provides very specific requirements for which months
15 may be included in the base period and the test period for rate filings using a
16 fully-forecasted test period, and the use of the test period from the last rate
17 case would violate those requirements.

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1 Another reason for Big Rivers' approach is to ensure that the test
2 period reflects the conditions that Big Rivers anticipates for the period of time
3 that the rates will become effective. In other words, the test period financials
4 should be based on the same forecast that Big Rivers relies upon to manage
5 the utility. The goals of producing a forecast that most accurately captures
6 Big Rivers' expectations for future financial and operating conditions, and
7 designing rates that account for those conditions, outweigh the desire to file
8 this case in an "easier" manner.

9 Also, the termination of the Sebree smelter agreement introduces very
10 significant changes to Big Rivers' operations. It is not feasible for Big Rivers
11 to estimate the effects of the changes resulting from the contract termination –
12 including changes to Big Rivers' load, generation dispatch, idling of power
13 plants, staffing, etc. – and accurately reflect those in pro forma adjustments.
14 The timing differences between the two rate filings and between the two
15 smelter contract terminations exacerbates the difficulty of estimating those
16 adjustments to revenues and expenses.

17 While the contract termination drives the need for the rate filing, Big
18 Rivers does include updates to other inputs to its modeling and forecasts, in

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1 order to reflect the most recent information available, when developing a
2 revised forecast. Big Rivers would have to update all other expenses and
3 revenues, even those not affected by the Sebree smelter contract termination,
4 in order to be consistent with the matching principle and to avoid single-issue
5 ratemaking. These updates may also impact the revenue deficiency proposed
6 in this case relative to any amounts in the previous rate filing.

7 For these reasons, rather than attempting to revise the forecast from the
8 previous rate filing with a patchwork of estimated adjustments, Big Rivers
9 instead developed an updated forecast (which supersedes the previous
10 forecast) for management to use for the operation of the business, and then
11 relied upon that forecast to develop the test period in this rate filing. Big
12 Rivers believes that this approach is the best way to design rates that reflect
13 the conditions that are expected to prevail after January 30, 2014, when the
14 Sebree smelter contract termination takes place and the proposed rates take
15 effect.

16 b. Please see Big Rivers' response to subpart (a), above.

17 c. The rate relief of \$68.6 million from the prior rate case is included in this
18 case, but not in the manner indicated in the question. For the forecasted test

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1 period, the revenue deficiency is determined first by identifying all of Big
2 Rivers' costs (including the application of target TIER, and including all of
3 the costs related to both smelter contract terminations), and then comparing
4 that to the revenues produced by existing rates. The proposed rates from the
5 last rate filing (which in that case produced \$68.6 million in incremental
6 revenues relative to the existing rates) were used as the starting point for
7 revenue calculations in this case. The question implies that those incremental
8 revenues can be distinguished from other base revenues, which is not the case.
9 Big Rivers did not simply add an assumed impact from the Sebree smelter
10 contract termination on top of the revenue requirement from Case No. 2012-
11 00535. Also, for the base period, the increase from Case No. 2012-00535 is
12 included in member revenues from August 20, 2013 (the effective date of the
13 rates proposed in Case No. 2012-00535) through September 30, 2013 (the end
14 of the base period in this case). All of the revenues are included in Account
15 447.

16 d. There is no "overlap" of revenues and expenses as that term is understood to
17 be used in the question. The revenue deficiency in this case is based on Big
18 Rivers' projected revenues and expenses in the forecasted test period. Big

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1 Rivers did not add the revenues and expenses in the forecasted test period in
2 this case on top of the revenues and expenses in the forecasted test period in
3 Case No. 2012-00535. All of the costs are only included once in the test
4 period, so there is no double-recovery.

5 e. Neither the \$46.7 million nor the \$23.7 million are Alcan-specific costs.
6 Instead, the \$46.7 million is an estimate of the impact of the Sebree smelter
7 contract termination on Big Rivers' revenue deficiency, based on the full
8 amount of the increase sought in this case less the \$23.7 million attributed to
9 the Sebree smelter's share of the increase from Case No. 2012-00535. The
10 \$23.7 million is a proportional amount of the increased revenues provided by
11 the Sebree smelter after the increase in Case No. 2012-00535. During the
12 base period in this case, those increased revenues are a portion of the total
13 revenues provided by the Sebree smelter from August 20, 2013 (the effective
14 date of the proposed increase in Case No. 2012-00535) through September 30,
15 2013 (the end of the base period). The revenue increase is included in
16 Account 447. Since the Sebree smelter's contract terminates prior to the
17 forecasted test period, these increased revenues are not included in the test
18 period.

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1 f. The base period in Case No. 2012-00535 was May 1, 2012-April 30, 2013.
2 The increase proposed in that case took effect August 20, 2013. Thus, none of
3 the increase proposed in Case No. 2012-00535 was in the base period.

4 The \$23.7 million is a portion of the total Sebree smelter revenues in
5 the forecasted test period in Case No. 2012-00535. The \$23.7 million
6 represents a proportional amount of the increased revenues from the Sebree
7 smelter resulting from the increase proposed in Case No. 2012-00535. The
8 revenue increase is included in Account 447.

9 g. There is no "overlap" of revenues as that term is understood to be used in the
10 question. The revenue requirement in this case is not based on Big Rivers'
11 estimate of the impact of the Sebree smelter contract termination or Big
12 Rivers' estimate of the Sebree smelter's share of the increase from Case No.
13 2012-00535 (i.e., in determining the revenue requirement in this case, Big
14 Rivers did not simply add the two estimates together). Instead, Big Rivers
15 determined its revenue requirement in this case based on its revenues and
16 expenses in the forecasted test period, consistent with the requirements of
17 KRS 278.192 and the applicable regulations.

18

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1 **Witness)** John Wolfram

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1 Item 85) *Reference Mr. Bailey's testimony at p. 4, l. 16-18 where he states that the*
2 *rate relief Big Rivers is seeking in this case is necessary to replace the net revenues that*
3 *Big Rivers will lose beginning January 31, 2014 as a result of the termination of Alcan,*
4 *and at p. 5, line 21 where he identifies this amount as \$70.4 million. Address the*
5 *following:*

6 a. *Show the impact of the loss of Century in the prior rate case CN 00535 and*
7 *compare this to loss of Alcan in the current rate case CN 00199 by account*
8 *number and type of revenue and cost, and show and compare the impacts*
9 *for the loss of each of Century and Alcan on all revenues, expenses and rate*
10 *base components for the base period in each rate case (show actual and*
11 *forecasted amounts separately) and the forecasted test period in each rate*
12 *case.*

13 b. *Regarding (a), explain and identify the changes in inputs, assumptions, and*
14 *other amounts in the Financial Model that affected the calculation of the*
15 *impacts of the loss of Century compared to the loss of Alcan, and explain*
16 *why these changes were made in the Financial Model for calculating the*
17 *impact of loss of Century versus the loss of Alcan. In all cases, explain why*
18 *these changes in inputs and assumptions were made to the Financial Model*

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Response to AG 1-85

Witnesses: John Wolfram, Christopher A. Warren

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1 *for calculating the impact of the loss of Century compared to the loss of*
2 *Alcan.*

3 c. *Regarding (b), quantify and explain this difference in cost showing the loss*
4 *of Century using the assumptions in the Financial Model for the Alcan loss*
5 *calculation in this case CN 00199. Provide related supporting*
6 *documentation and calculations and citations to all changes in the*
7 *Financial Model by specific field, row, column, tab, and other reference.*

8 d. *Regarding (b), quantify and explain this difference in cost showing the loss*
9 *of Alcan using the assumptions in the Financial Model for the Century loss*
10 *calculation in the prior rate case CN 00535. Provide related supporting*
11 *documentation and calculations and citations to all changes in the*
12 *Financial Model by specific field, row, column, tab, and other reference.*

13
14 **Response)** Big Rivers objects that this request is overly broad and unduly burdensome.
15 Notwithstanding this objection, and without waiving it, Big Rivers responds as follows.

16 a. Big Rivers does not have the requested analysis. The data for the requested
17 comparison of each rate case “impacts” by account number and type of
18 revenue and cost for the base periods and test periods is not available. For the

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- 1 last rate case, the forecast was prepared assuming that the Century contract
2 was terminated and that a plant was idled. For this rate case, the forecast was
3 prepared assuming that both smelter contracts were terminated and that two
4 plants were idled. Neither filing included the preparation of a forecast that
5 retained both smelters and both units, so it is not possible to compare the
6 “impact of the loss of Century” in the last case to the “impact of the loss of
7 Alcan” in this case. However, certain comparisons of data from the two cases
8 are possible; see Big Rivers’ responses to AG 1-86, AG 1-276, and AG 1-287.
- 9 b. Big Rivers does not have the requested analysis; see Big Rivers’ response to
10 subpart (a) above. Also, please see Big Rivers’ responses to AG 1-86, AG 1-
11 276, and AG 1-287.
- 12 c. Big Rivers does not have the requested analysis because the assumptions
13 applicable to this rate case are not applicable to the last rate case.
- 14 d. Big Rivers does not have the requested analysis because the assumptions
15 applicable to the last rate case are not applicable to this rate case.
- 16
- 17 **Witnesses)** John Wolfram, Christopher A. Warren

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1 **Item 86)** *Reference Mr. Bailey's testimony at p. 4, l. 16-18 where he states that the*
2 *rate relief Big Rivers is seeking in this case is necessary to replace the net revenues that*
3 *Big Rivers will lose beginning January 31, 2014 as a result of the termination of Alcan. Is*
4 *it BREC's contention that this entire rate case is related only to the loss of Alcan*
5 *revenues? If not, please explain. Regardless, address the following:*

6 a. *The forecasted test period in the prior rate case CN 00535 was for the period*
7 *September 1, 2013 through August 31, 2014, and the forecasted period in*
8 *this case CN 00199 is for the period February 1, 2014 (date of Alcan*
9 *termination) through January 28, 2015. There is an overlap of the same*
10 *seven months of February 2013 through August 2013 in the forecasted test*
11 *periods of these two cases. Provide the forecasted test period revenues,*
12 *expenses, interest expense, taxes, depreciation (and all other expenses) and*
13 *plant investment, accumulated depreciation, long-term debt (and all other*
14 *rate base components) by account number in the prior rate case CN 00535*
15 *for each month February 2013 through August 2013, and compare to the*
16 *amounts for the same revenues, expenses, and rate base components in the*
17 *current rate case CN 00199 for the same forecasted test period months of*
18 *February 2013 through August 2013 and explain the reasons for all*
19 *differences in amounts for each revenue, expense, and rate base component*

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1 *by account number and major cost element (revenues, cost of fuel, payroll,*
2 *depreciation, taxes, rate case expense, profession fees, etc.). In all cases,*
3 *explain and quantify the changes in inputs, assumptions, and all other*
4 *changes to the Financial Model that caused a change in these amounts and*
5 *explain why it was necessary to change assumptions and inputs to the*
6 *Financial Model for the same months in forecasted test period of prior rate*
7 *case CN 00535 compared to the current rate case CN 00199. Provide*
8 *related supporting documentation and calculations and citations to all*
9 *changes in the Financial Model by specific field, row, column, tab, and*
10 *other reference.*

11
12 **Response)** Big Rivers' position is that the driver for the instant filing is the Alcan smelter
13 contract termination. However, the fully forecasted test period does include updates to other
14 parameters (consistent with the requirements set forth in 807 KAR 5:001 Section 16) which
15 may affect the revenue deficiency calculation in this case. Please see Big Rivers' response to
16 AG 1-230.

17 a. Big Rivers agrees that there are seven months, February 2014 through August
18 2014, in common in the forecasted test periods of these two cases. The

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1 CONFIDENTIAL attachment, which is provided pursuant to a petition for
2 confidential treatment, to this response provides a comparison of revenues and
3 expenses included in these seven months, along with an explanation where
4 applicable. The revenues and expenses included here tie to the amounts
5 included in the Big Rivers Financial Model that was used to develop the
6 revenue deficiency calculation for this case, therefore no pro forma
7 adjustments are included. The attachment lists the information by revenue or
8 expense item category, not by account number, consistent with Big Rivers'
9 budget variance analyses. However, the attachment also provides the
10 worksheet and row reference in the Big Rivers Financial Model where the
11 revenues and expenses are located by account number.

12 It was necessary to change certain assumptions for this filing, even
13 though there are seven months in common with the last rate case filing. This
14 is so because it is prudent for Big Rivers' forecast to reflect its most up-to-
15 date expectations for budgeting purposes, and 807 KAR 5:001 Section 16
16 requires that the forecast in the rate filing contain the same assumptions and
17 methodologies as used in the forecast prepared for use by management. The

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1 forecast development is discussed in the Direct Testimony of Mr. Jeffrey R.
2 Williams.
3
4 **Witnesses)** Jeffrey R. Williams, John Wolfram

Big Rivers Energy Corporation
Case No. 2013-00199
Attachment for Response to AG 1-86(a)
7 Month Overlap

Worksheet and Row Reference
 In Financial Model
 By Account Number

| | Feb 14 - Aug 14 CN 2012-00535 | Feb 14 - Aug 14 CN 2013-00199 | Difference | Explanation | |
|---|----------------------------------|----------------------------------|---------------|------------------------------------|--|
| Revenues | | | | | |
| Rural | 105,988,908 | 135,545,345 | 29,556,437 | Rate Increase | Trial Bal, Row 464 |
| Large Industrial Smelter | 32,097,920 | 43,885,311 | 11,787,391 | Rate Increase | Trial Bal, Row 465 |
| Off-System/Other | 110,696,569 | 0 | (110,696,569) | Contract Termination | Trial Bal, Row 466 |
| Other Electric Revenue-Power Supply | 1,254,169 | 1,232,000 | (22,169) | | Trial Bal, Row 468 |
| Rent from Electric Property | 14,000 | 14,000 | 0 | | O&M, Row 63 |
| Other Electric Revenues | 885,500 | 879,200 | (6,300) | | O&M, Row 64 |
| Total Operating Revenues & Patronage Capital | | | | | |
| Cost of Electric Service | | | | | |
| Fuel | | | | Idling Plant | Fuel, Rows 39-49 |
| Reagent & Allowances | | | | Idling Plant | PCM, Rows 121-135, 140 |
| Purchased Power | | | | Variable Flow Through | PCM, Rows 146-148 |
| Non-FAC PPA - NonSmelter | | | | Variable Flow Through | Regulatory Charge, Row 62 |
| Power Supply Transmission Reservation | | | | MISO Transmission Rate Increase | O&M, Row 65 |
| PJM | 5,150 | 0 | 5,150 | | |
| Production Expense Non-Labor | | | | Savings from plant idling | O&M, Rows 127-129, 131-132, 135-139, 142 |
| Emission Fees | | | | Lower generation from idling plant | O&M, Rows 130 and 143 |
| MISO Administrative Fees | 1,401,489 | 1,115,957 | 285,532 | Savings from plant idling | O&M, Rows 119-121 |
| ACES FEES | 1,321,831 | 1,326,981 | (5,150) | | O&M, Row 60 |
| TVA Transmission Fees | | | | TVA transmission rate increase | O&M, Row 61 |
| FDE (Excluding Production O&M) | | | | | O&M, Rows 18-55, 106-109, 113-116 |
| Labor | 34,596,487 | 31,128,150 | 3,468,338 | Savings from staffing reductions | O&M, Rows 149-179 |
| Property Tax | 2,454,410 | 2,460,521 | (6,111) | | O&M, Rows 84-94 |
| Insurance | 2,275,889 | 2,275,889 | 0 | | O&M, Rows 70-77 |
| Line of Credit Fees | 26,870 | 11,492 | 15,378 | | O&M, Row 198 |
| Amortization of upfront LOC Fees | 214,295 | 178,907 | 35,388 | | O&M, Row 196 |
| Amortize Environmental Compliance Plan Expenses | 149,545 | 149,210 | 335 | | Regulatory Charge, Row 63 |
| Amortize Rate Case Expenses | 308,384 | 581,798 | (273,414) | 2013-00199 Rate Case expenses | Regulatory Charge, Row 63 |
| Amortize Severance Package Expenses | 536,667 | 968,333 | (431,667) | 2nd Plant Idling Severance Payout | Regulatory Charge, Row 64 |
| HMPL G&A Agreement | 334,084 | 334,084 | 0 | | O&M, Row 197 |
| Hanson Lease | 3,220 | 3,222 | (2) | | O&M, Rows 9-10 |
| Depreciation & Amortization Expense | 27,834,143 | 28,185,005 | (350,862) | | Capex & Depr, Rows 37-51 |
| Other Taxes | 885 | 885 | 0 | | O&M, Row 99 |
| Interest on Long-Term Debt | 27,448,333 | 25,379,237 | 2,069,096 | Savings from refinance | Debt (Row 160) and Pat.(Row 44) |
| Interest Charged to Construction-Credit | (1,837,786) | (1,720,113) | (117,673) | | Debt, Row 107 |
| Other Deductions | 282,242 | 307,447 | (25,205) | | Debt, Row 162 |
| Total Cost of Electric Service | | | | | |
| Operating Margins | | | | | |
| Interest Income | 1,142,695 | 1,073,818 | (68,877) | | Interest (Row 38) and Pat.(Row 43) |
| Other Capital Credits & Pat. Dividends | 2,706,448 | 1,723,991 | (982,457) | Timing of CFC Patronage | Pat.(Row 45) |
| Net Patronage Capital or Margins | | | | | |

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199

Response to the Office of the Attorney General's
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dated August 19, 2013

September 3, 2013

1 **Item 87)** *Reference Mr. Bailey's testimony at p.6, l. 2-16 where he states the rate*
2 *relief from the prior rate case and for this rate case will be sufficient for Big Rivers to*
3 *prudently operate, maintain its generating units, satisfy its loan agreements, attract capital,*
4 *and be well –positioned for the future. Address the following:*

5 *a. Provide a cash flow analysis for the actual FY 2011, actual FY 2012, actual*
6 *2013 YTD, base period (showing actual and forecasted amounts separately),*
7 *forecasted test period and forecasted 2016, that shows beginning cash and*
8 *equivalents and reserve funds (identify amounts by account name and*
9 *description, and identify reserve funds separately), cash flows in to*
10 *operations, cash flows out of operations, and ending cash balance and*
11 *equivalents and reserve funds (identify amounts by account name and*
12 *description and identify reserve funds separately).*

13 *b. Regarding (a) above, show all detailed amounts by line item, including (but*
14 *not limited to) the following: beginning cash and equivalents and economic*
15 *reserve funds plus positive cash flows (cash sources flowing in to the*
16 *operations) related to rate relief/new revenues from prior rate case CN*
17 *00535, energy revenues, proceeds from economic reserve fund, proceeds*
18 *from rural economic reserve funds (and proceeds from all other reserve*

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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CASE NO. 2013-00199**

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- 1 *funds), cash from debt and outside financing, cash from investments, and*
2 *all other cash in-flows (provide type and description). Also, show negative*
3 *cash flows (cash sources flowing out of the operations), all cash flow*
4 *expenses by type of expense, interest expense, principal payments on debt*
5 *(by type of debt), debt issuance costs, investments, capital expenditures, and*
6 *all other cash out-flows (provide type and description). Provide related*
7 *supporting documents and calculations.*
- 8 c. *Regarding (b) above, show the cash flow analysis under two scenarios: i)*
9 *assuming Big Rivers receives all of its requested rate relief in prior rate case*
10 *CN 00535, and show impacts for each specific period; and ii) assume that*
11 *Big Rivers does not receive any rate relief from rate case CN 00535 and*
12 *show impacts for each specific period.*
- 13 d. *Regarding (b) above, show the cash flow analysis under two scenarios: i)*
14 *idling both Wilson and Coleman as Big Rivers proposes in this case (show*
15 *Wilson and Coleman impacts separately); and ii) neither Wilson nor*
16 *Coleman is idled.*
- 17 e. *Regarding (b) above, explain and show how this supports Mr. Bailey's*
18 *testimony.*

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 *f. Regarding (a) and (b) above, compare cash flow analysis for this rate case*
2 *compared to the periods for cash flow in the prior rate case CN 00199 at the*
3 *"Statement of Cash Flows" at Tab 31, Attachment 3, page 4 of 10,*
4 *sponsored by Ms. Speed. Explain the response for all changes in cash flow*
5 *amounts and assumptions and provide related supporting documentation*
6 *and calculations.*

7
8 **Response)** Big Rivers objects that this request is overly broad and unduly burdensome.
9 Notwithstanding this objection, and without waiving it, Big Rivers responds as follows.

10 a. Please refer to Tab 32 of the Application in this case for the audited cash flow
11 statements for FY 2011 and FY 2012 included in Big Rivers' 2012 Annual
12 Report. Please see the attached document for the YTD 2013 cash flow
13 statement as of June 30, 2013. Please refer to Tab 28, Section 16(12)(h)(Item
14 #3) of the Application in this case for forecasted cash flow statements for
15 years 2013 through 2016. Cash flow analysis for the base period (Oct 2012-
16 Sep 2013) was not part of the filing requirement and has not been performed.
17 Please refer to the Big Rivers Financial Model, on the "Stmts RUS"

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 worksheet (rows 193-300), which was provided in response to PSC 1-57, for
2 monthly cash flow analysis for the forecasted test period.

3 b. See Big Rivers' response to subpart (a) above. Big Rivers further objects that
4 this request is overly broad and unduly burdensome because Big Rivers does
5 not, in the ordinary course of business, maintain its records in the manner
6 requested.

7 c. Cash flow analysis has been provided in the financial model in Big Rivers'
8 response to PSC 1-57 and in Tab 28 Section 16(12)(h)(Item #3) of the
9 Application in this case. The cash flow analysis assuming that Big Rivers
10 does not receive any rate relief in Case No. 2012-00535 has not been
11 performed.

12 d.

13 i. The cash flow analysis discussed in Big Rivers' response to subpart
14 (c), above, includes the idling of both Wilson and Coleman in this
15 case.

16 ii. The revenues and expenses from operating the Coleman and Wilson
17 locations are not included in this case; therefore the cash flow analysis
18 with those units running has not been performed.

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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- 1 e. The rate relief sought in this case results in positive cash flows from
2 operations as shown in Big Rivers' response to subpart (a), above, which
3 supports Mr. Bailey's testimony.
- 4 f. Big Rivers does not possess a cash flow analysis comparing this rate case to
5 the prior rate case. Cash flow statements were provided in the Application for
6 each rate case and can be found for Case No. 2012-00535 in Tab 31 Section
7 10(9)(h)(Item #3) and for Case No. 2013-00199 in Tab 28 Section
8 16(12)(h)(Item #3).
- 9
- 10 **Witness)** Billie J. Richert

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-87(a)
Statement of Cash Flows

BIG RIVERS ELECTRIC CORPORATION
Statement of Cash Flows
For The Quarter Ended June 30, 2013
In Thousands \$

| | <u>Three Months Ended June 30,</u> | | <u>Six Months Ended June 30,</u> | |
|---|------------------------------------|----------------|----------------------------------|---------------|
| | <u>2013</u> | <u>2012</u> | <u>2013</u> | <u>2012</u> |
| CASH FLOWS FROM OPERATING ACTIVITIES: | | | | |
| Net margin | 4,170 | 3,739 | 13,692 | 1,635 |
| Adjustments to reconcile net margin to net cash provided by operating activities: | | | | |
| Depreciation and amortization | 11,826 | 11,017 | 22,946 | 22,015 |
| Interest compounded - RUS Series B Note | 1,911 | 1,800 | 3,775 | 3,574 |
| Interest compounded - RUS Series A Note | 11 | 0 | 22 | 7,596 |
| Noncash Member Rate Mitigation Revenue | (6,136) | (6,270) | (12,923) | (11,980) |
| Changes in certain assets and liabilities: | | | | |
| Accounts receivable | 751 | (1,683) | 1,968 | 468 |
| Inventories | (7,833) | (959) | (4,188) | (2,532) |
| Prepaid expenses | 1,896 | 483 | 1,784 | 2,101 |
| Deferred charges | (516) | 28 | (985) | 57 |
| Accounts payable | (830) | (5,899) | (4,639) | (7,316) |
| Accrued expenses | 2,676 | 2,918 | (996) | 187 |
| Other - Net | 693 | 738 | 1,169 | 2,254 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| Net cash provided by operating activities | 8,619 | 5,912 | 21,645 | 18,059 |
| CASH FLOWS FROM INVESTING ACTIVITIES: | | | | |
| Capital expenditures - net | (9,547) | (9,106) | (15,334) | (21,105) |
| Proceeds from Restricted Investments and Other Deposits and Investments | 16,087 | 5,678 | 20,702 | 10,394 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| Net cash used in investing activities | 6,540 | (3,428) | 5,368 | (10,711) |
| CASH FLOWS FROM FINANCING ACTIVITIES: | | | | |
| Principal payments on long-term obligations | (64,500) | (3,990) | (70,147) | (3,990) |
| Proceeds from long-term obligations | 0 | 0 | 0 | 0 |
| Principal payments on short-term notes payable | 0 | 0 | 0 | 0 |
| Proceeds from short-term notes payable | 0 | 0 | 0 | 0 |
| Debt Issuance Cost Bond Refunding | 0 | (302) | 0 | (548) |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| Net cash used in financing activities | (64,500) | (4,292) | (70,147) | (4,538) |
| NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS | (49,341) | (1,808) | (43,134) | 2,810 |
| CASH AND CASH EQUIVALENTS - Beginning | 116,380 | 49,467 | 110,173 | 44,849 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| CASH AND CASH EQUIVALENTS - Ending | 67,039 | 47,659 | 67,039 | 47,659 |
| SUPPLEMENTAL CASH FLOW INFORMATION: | | | | |
| Cash paid for interest | 8,437 | 8,672 | 18,422 | 11,186 |
| Cash paid in taxes | 0 | 0 | 0 | 0 |

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199

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September 3, 2013

1 **Item 88)** *Reference Mr. Bailey's testimony at p. 6, l. 20-23, and p. 7, l. 1-20, where he*
2 *addresses the Economic Reserve and Rural Economic Reserve funds. Address the*
3 *following:*

4 *a. Start with the beginning balance of all actual Reserve funds at January 1,*
5 *2012 provide the requested information through the most recent date in 2013 (and provide*
6 *continuing updated information), and start with the amount at the beginning of the month,*
7 *show and explain the use of funds during the month, and show the monthly ending*
8 *balance. As updates are provided, show the actual amount of rate relief received in prior*
9 *rate case CN 00535 and explain how this impacts the use (or non-use) of reserve fund*
10 *balances by month.*

11 *b. In addition, provide the information in (a) above for each of the months in*
12 *the base period (show actual and forecasted amounts separately) through the forecasted*
13 *test period, and forecasted 2016.*

14 *c. Show the analysis in (b) above under two scenarios: i) assuming Big Rivers*
15 *receives all of its requested rate relief in prior rate case CN 00535 and show and explain*
16 *impacts by month on the reserve fund with this assumption; and ii) assume that Big Rivers*
17 *does not receive any rate relief from rate case CN 00535 and show and explain impacts by*
18 *month on the reserve fund with this assumption.*

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199

Response to the Office of the Attorney General's
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1 *d. Show the analysis in (b) above under two scenarios: i) assuming Big Rivers*
2 *receives all of its requested rate relief in this rate case CN 00199; and ii) assuming that Big*
3 *Rivers does not receive any rate relief in this rate case CN 00199.*

4

5 **Response)**

6 a. To the extent this request seeks continuous or ongoing updates, Big Rivers
7 objects on the grounds that it is overbroad and unduly burdensome; Big Rivers
8 states that it will update its response as required by law, as ordered by the
9 Commission, or as it otherwise deems appropriate. Notwithstanding these
10 objections and without waiving them, Big Rivers responds as follows. Please
11 see the attached document for Reserve Fund beginning balances, use of funds
12 during the month and ending balances from January 1, 2012 through and
13 including July 31, 2013.

14 b. The information in subpart (a) above is provided on the attachment for each of
15 the months in the base period (actual and forecasted amounts separately)
16 through the forecasted test period, and forecasted 2016.

17 c. No offset to base rates using the reserve fund was proposed in CN 2012-
18 00535, so the analysis would be the same as the answer to part (b) above.

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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September 3, 2013

- 1 d. i. This analysis would be the same as part (b) above.
- 2 ii. This analysis is provided as an attachment to this response.
- 3
- 4 **Witness)** Billie J. Richert

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - January 31, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$100,310,266.22 | \$62,851,736.18 |
| Accrued Interest | 290,916.98 | 649,093.80 |
| Total | <u>100,601,183.20</u> | <u>63,500,829.98</u> |
| Interest Accrued | | |
| Gross | 64,889.38 | 128,944.32 |
| (Premium) Amortization | <u>(12,601.77)</u> | <u>(32,389.26)</u> |
| Net Interest Accrued | 52,287.61 | 96,555.06 |
| Interest Received | 204,360.81 | 0.62 |
| Withdraws -MRSM | (1,741,389.80) | |
| Ending Balance | | |
| Principal | 98,760,635.46 | 62,819,347.54 |
| Accrued Interest | 151,445.55 | 778,037.50 |
| Total | <u>\$98,912,081.01</u> | <u>\$63,597,385.04</u> |

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Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - February 29, 2012

| | Economic Reserve | Rural Economic Reserve |
|---------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$98,760,635.46 | \$62,819,347.54 |
| Accrued Interest | 151,445.55 | 778,037.50 |
| Total | <u>98,912,081.01</u> | <u>63,597,385.04</u> |
| Interest Accrued | | |
| Gross | 57,808.61 | 128,945.21 |
| (Premium) Amortization | <u>(11,360.67)</u> | <u>(32,389.26)</u> |
| Net Interest Accrued | 46,447.94 | 96,555.95 |
| Interest Received | 65,418.45 | 773,663.95 |
| Withdrawals - MRSM | (1,820,287.22) | |
| Ending Balance | | |
| Principal | 96,994,406.02 | 63,560,622.23 |
| Accrued Interest | <u>143,835.71</u> | <u>133,318.76</u> |
| Total | <u>\$97,138,241.73</u> | <u>\$63,693,940.99</u> |

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Witness: Billie J. Richert
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - March 31, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$96,994,406.02 | \$63,560,622.23 |
| Accrued Interest | 143,835.71 | 133,318.76 |
| Total | <u>97,138,241.73</u> | <u>63,693,940.99</u> |
| Interest Accrued | | |
| Gross | 56,879.10 | 130,218.45 |
| (Premium) Amortization | <u>(11,564.56)</u> | <u>(33,306.00)</u> |
| Net Interest Accrued | 45,314.54 | 96,912.45 |
| Interest Received | (15,132.78) | (3,100.31) |
| Withdraws - MRSM | (1,640,240.32) | |
| Ending Balance | | |
| Principal | 95,327,468.36 | 63,524,215.92 |
| Accrued Interest | 215,847.59 | 266,637.52 |
| Total | <u>\$95,543,315.95</u> | <u>\$63,790,853.44</u> |

Case No. 2013-00199

Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
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Reserve Funds - April 30, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$95,327,468.36 | \$63,524,215.92 |
| Accrued Interest | 215,847.59 | 266,637.52 |
| Total | <u>95,543,315.95</u> | <u>63,790,853.44</u> |
| Interest Accrued | | |
| Gross | 54,439.88 | 131,131.26 |
| (Premium) Amortization | <u>(11,070.28)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 43,369.60 | 96,908.67 |
| Interest Received | 65,142.38 | 0.00 |
| Withdraws - MRSM | (1,708,652.00) | |
| Ending Balance | | |
| Principal | 93,672,888.46 | 63,489,993.33 |
| Accrued Interest | 205,145.09 | 397,768.78 |
| Total | <u>\$93,878,033.55</u> | <u>\$63,887,762.11</u> |

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - May 31, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$93,672,888.46 | \$63,489,993.33 |
| Accrued Interest | 205,145.09 | 397,768.78 |
| Total | <u>93,878,033.55</u> | <u>63,887,762.11</u> |
| Interest Accrued | | |
| Gross | 42,180.03 | 131,131.26 |
| (Premium) Amortization | <u>(9,138.42)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 33,041.61 | 96,908.67 |
| Interest Received | 70,509.19 | 0.00 |
| Withdraws - MRSM | (1,657,615.04) | |
| Ending Balance | | |
| Principal | 92,076,644.19 | 63,455,770.74 |
| Accrued Interest | 176,815.93 | 528,900.04 |
| Total | <u>\$92,253,460.12</u> | <u>\$63,984,670.78</u> |

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Attachment for Response for AG 1-88(a)
Witness: Billie J. Richert
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - June 30, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$92,076,644.19 | \$63,455,770.74 |
| Accrued Interest | 176,815.93 | 528,900.04 |
| Total | <u>92,253,460.12</u> | <u>63,984,670.78</u> |
| Interest Accrued | | |
| Gross | 43,431.13 | 131,131.24 |
| (Premium) Amortization | <u>(8,986.90)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 34,444.23 | 96,908.65 |
| Interest Received | 32,406.13 | 0.00 |
| Withdraws - MRSM | (1,946,348.29) | |
| Ending Balance | | |
| Principal | 90,153,715.13 | 63,421,548.15 |
| Accrued Interest | <u>187,840.93</u> | <u>660,031.28</u> |
| Total | <u>\$90,341,556.06</u> | <u>\$64,081,579.43</u> |

Case No. 2013-00199

Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - July 31, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$90,153,715.13 | \$63,421,548.15 |
| Accrued Interest | 187,840.93 | 660,031.28 |
| Total | <u>90,341,556.06</u> | <u>64,081,579.43</u> |
| Interest Accrued | | |
| Gross | 38,509.22 | 131,131.22 |
| (Premium) Amortization | <u>(7,539.47)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 30,969.75 | 96,908.63 |
| Interest Received | 137,689.82 | 0.00 |
| Withdraws - MRSM | (1,971,823.94) | |
| Ending Balance | | |
| Principal | 88,312,041.54 | 63,387,325.56 |
| Accrued Interest | 88,660.33 | 791,162.50 |
| Total | <u>\$88,400,701.87</u> | <u>\$64,178,488.06</u> |

Case No. 2013-00199

Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - August 31, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$88,312,041.54 | \$63,387,325.56 |
| Accrued Interest | 88,660.33 | 791,162.50 |
| Total | <u>88,400,701.87</u> | <u>64,178,488.06</u> |
| Interest Accrued | | |
| Gross | 39,034.96 | 131,131.88 |
| (Premium) Amortization | <u>(7,479.25)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 31,555.71 | 96,909.29 |
| Interest Received | 59,639.41 | 786,788.12 |
| Withdraws - MRSM | (1,755,392.39) | |
| Ending Balance | | |
| Principal | 86,608,809.31 | 64,139,891.09 |
| Accrued Interest | <u>68,055.88</u> | <u>135,506.26</u> |
| Total | <u>\$86,676,865.19</u> | <u>\$64,275,397.35</u> |

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Attachment for Response for AG 1-88(a)
Witness: Billie J. Richert
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - September 30, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$86,608,809.31 | \$64,139,891.09 |
| Accrued Interest | 68,055.88 | 135,506.26 |
| Total | <u>86,676,865.19</u> | <u>64,275,397.35</u> |
| Interest Accrued | | |
| Gross | 38,872.79 | 131,131.86 |
| (Premium) Amortization | <u>(7,479.25)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 31,393.54 | 96,909.27 |
| Interest Received | 606.13 | 0.60 |
| Withdraws - MRSM | (1,790,954.79) | |
| Ending Balance | | |
| Principal | 84,810,981.40 | 64,105,669.10 |
| Accrued Interest | <u>106,322.54</u> | <u>266,637.52</u> |
| Total | <u>\$84,917,303.94</u> | <u>\$64,372,306.62</u> |

Case No. 2013-00199

Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - October 31, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-------------------------|-------------------------------|
| Beginning Balance | | |
| Principal | \$84,810,981.40 | \$64,105,669.10 |
| Accrued Interest | 106,322.54 | 266,637.52 |
| Total | <u>84,917,303.94</u> | <u>64,372,306.62</u> |
| Interest Accrued | | |
| Gross | 38,702.65 | 131,131.88 |
| (Premium) Amortization | <u>(7,479.25)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 31,223.40 | 96,909.29 |
| Interest Received | 435.99 | 0.62 |
| Withdraws - MRSM | (1,344,479.90) | |
| Ending Balance | | |
| Principal | 83,459,458.24 | 64,071,447.13 |
| Accrued Interest | <u>144,589.20</u> | <u>397,768.78</u> |
| Total | <u>\$83,604,047.44</u> | <u>\$64,469,215.91</u> |

Case No. 2013-00199

Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - November 30, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$83,459,458.24 | \$64,071,447.13 |
| Accrued Interest | 144,589.20 | 397,768.78 |
| Total | <u>83,604,047.44</u> | <u>64,469,215.91</u> |
| Interest Accrued | | |
| Gross | 38,516.55 | 131,131.86 |
| (Premium) Amortization | <u>(7,479.25)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 31,037.30 | 96,909.27 |
| Interest Received | 26,499.89 | 0.60 |
| Withdraws - MRSM | (1,441,083.54) | |
| Ending Balance | | |
| Principal | 82,037,395.34 | 64,037,225.14 |
| Accrued Interest | <u>156,605.86</u> | <u>528,900.04</u> |
| Total | <u>\$82,194,001.20</u> | <u>\$64,566,125.18</u> |

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Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - December 31, 2012

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$82,037,395.34 | \$64,037,225.14 |
| Accrued Interest | 156,605.86 | 528,900.04 |
| Total | <u>82,194,001.20</u> | <u>64,566,125.18</u> |
| Interest Accrued | | |
| Gross | 38,108.63 | 131,131.88 |
| (Premium) Amortization | <u>(7,479.25)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 30,629.38 | 96,909.29 |
| Interest Received | 62,291.97 | 0.62 |
| Withdraws - MRSM | (1,581,279.44) | |
| Ending Balance | | |
| Principal | 80,510,928.62 | 64,003,003.17 |
| Accrued Interest | <u>132,422.52</u> | <u>660,031.30</u> |
| Total | <u>\$80,643,351.14</u> | <u>\$64,663,034.47</u> |

Case No. 2013-00199
Attachment for Response for AG 1-88(a)
Witness: Billie J. Richert
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - January 31, 2013

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$80,510,928.62 | \$64,003,003.17 |
| Accrued Interest | 132,422.52 | 660,031.30 |
| Total | <u>80,643,351.14</u> | <u>64,663,034.47</u> |
| Interest Accrued | | |
| Gross | 30,728.35 | 131,131.82 |
| (Premium) Amortization | <u>(4,550.05)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 26,178.30 | 96,909.23 |
| Interest Received | 108,317.52 | 786,788.12 |
| Withdraws - MRSM | (1,412,276.33) | |
| Ending Balance | | |
| Principal | 79,202,419.76 | 64,755,568.70 |
| Accrued Interest | <u>54,833.35</u> | <u>4,375.00</u> |
| Total | <u>\$79,257,253.11</u> | <u>\$64,759,943.70</u> |

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Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - February 28, 2013

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$79,202,419.76 | \$64,755,568.70 |
| Accrued Interest | 54,833.35 | 4,375.00 |
| Total | <u>79,257,253.11</u> | <u>64,759,943.70</u> |
| Interest Accrued | | |
| Gross | 22,981.50 | 131,132.57 |
| (Premium) Amortization | <u>(1,829.58)</u> | <u>(34,222.59)</u> |
| Net Interest Accrued | 21,151.92 | 96,909.98 |
| Interest Received | 49,239.84 | 1.31 |
| Withdraws - MRSM | (1,902,320.93) | |
| Ending Balance | | |
| Principal | 77,347,509.09 | 64,721,347.42 |
| Accrued Interest | 28,575.01 | 135,506.26 |
| Total | <u>\$77,376,084.10</u> | <u>\$64,856,853.68</u> |

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Attachment for Response for AG 1-88(a)
Witness: Billie J. Richert
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - March 31, 2013

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$77,347,509.09 | \$64,721,347.42 |
| Accrued Interest | 28,575.01 | 135,506.26 |
| Total | <u>77,376,084.10</u> | <u>64,856,853.68</u> |
| Interest Accrued | | |
| Gross | 22,391.97 | 133,113.50 |
| (Premium) Amortization | <u>(1,829.58)</u> | <u>(36,268.09)</u> |
| Net Interest Accrued | 20,562.39 | 96,845.41 |
| Interest Received | 1,337.77 | (2,392.76) |
| Withdraws - MRSM | (2,010,694.44) | |
| Ending Balance | | |
| Principal | 75,336,322.84 | 64,682,686.57 |
| Accrued Interest | 49,629.21 | 271,012.52 |
| Total | <u>\$75,385,952.05</u> | <u>\$64,953,699.09</u> |

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Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - April 30, 2013

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$75,336,322.84 | \$64,682,686.57 |
| Accrued Interest | 49,629.21 | 271,012.52 |
| Total | <u>75,385,952.05</u> | <u>64,953,699.09</u> |
| Interest Accrued | | |
| Gross | 17,772.13 | 133,318.76 |
| (Premium) Amortization | <u>(1,829.58)</u> | <u>(36,268.04)</u> |
| Net Interest Accrued | 15,942.55 | 97,050.72 |
| Interest Received | 13,129.08 | 0.00 |
| Withdraws - MRSM | (2,051,017.81) | |
| Ending Balance | | |
| Principal | 73,296,604.53 | 64,646,418.53 |
| Accrued Interest | 54,272.26 | 404,331.28 |
| Total | <u>\$73,350,876.79</u> | <u>\$65,050,749.81</u> |

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Attachment for Response for AG 1-88(a)
Witness: Billie J. Richert
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - May 31, 2013

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$73,296,604.53 | \$64,646,418.53 |
| Accrued Interest | 54,272.26 | 404,331.28 |
| Total | <u>73,350,876.79</u> | <u>65,050,749.81</u> |
| Interest Accrued | | |
| Gross | 15,929.45 | 133,318.76 |
| (Premium) Amortization | <u>(2,752.58)</u> | <u>(36,268.04)</u> |
| Net Interest Accrued | 13,176.87 | 97,050.72 |
| Interest Received | 11,796.13 | 0.00 |
| Withdraws - MRSM | (1,569,851.53) | |
| Ending Balance | | |
| Principal | 71,735,796.55 | 64,610,150.49 |
| Accrued Interest | 58,405.58 | 537,650.04 |
| Total | <u>\$71,794,202.13</u> | <u>\$65,147,800.53</u> |

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Attachment for Response for AG 1-88(a)

Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - June 30, 2013

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$71,735,796.55 | \$64,610,150.49 |
| Accrued Interest | 58,405.58 | 537,650.04 |
| Total | <u>71,794,202.13</u> | <u>65,147,800.53</u> |
| Interest Accrued | | |
| Gross | 14,272.10 | 133,318.76 |
| (Premium) Amortization | <u>(3,675.08)</u> | <u>(36,268.04)</u> |
| Net Interest Accrued | 10,597.02 | 97,050.72 |
| Interest Received | 51,539.72 | 0.00 |
| Withdraws - MRSM | (1,802,465.90) | |
| Ending Balance | | |
| Principal | 69,981,195.29 | 64,573,882.45 |
| Accrued Interest | 21,137.96 | 670,968.80 |
| Total | <u>\$70,002,333.25</u> | <u>\$65,244,851.25</u> |

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Attachment for Response for AG 1-88(a)
Witness: Billie J. Richert
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-88(a)
Reserve Funds - July 31, 2013

| | Economic Reserve | Rural Economic Reserve |
|--------------------------|-----------------------------|-----------------------------------|
| Beginning Balance | | |
| Principal | \$69,981,195.29 | \$64,573,882.45 |
| Accrued Interest | 21,137.96 | 670,968.80 |
| Total | <u>70,002,333.25</u> | <u>65,244,851.25</u> |
| Interest Accrued | | |
| Gross | 14,186.91 | 133,520.11 |
| (Premium) Amortization | <u>(3,675.08)</u> | <u>(36,268.04)</u> |
| Net Interest Accrued | 10,511.83 | 97,252.07 |
| Interest Received | 579.53 | 787,829.19 |
| Withdraws - MRSM | (2,088,387.65) | |
| Ending Balance | | |
| Principal | 67,889,712.09 | 65,325,443.60 |
| Accrued Interest | <u>34,745.34</u> | <u>16,659.72</u> |
| Total | <u>\$67,924,457.43</u> | <u>\$65,342,103.32</u> |

Case No. 2013-00199
Attachment for Response for AG 1-88(a)
Witness: Billie J. Richert
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment to Response for AG 1-88 (b)
Reserve Fund Balances (In Millions)

| | Actual 2012 <u>October</u> | Actual 2012 <u>November</u> | Actual 2012 <u>December</u> | Actual 2013 <u>January</u> | Actual 2013 <u>February</u> | Actual 2013 <u>March</u> | Forecast 2013 <u>April</u> | Forecast 2013 <u>May</u> |
|--------------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------------|--------------------------------|
| <u>Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 84.9 | \$ 83.6 | \$ 82.2 | \$ 80.6 | \$ 79.3 | \$ 77.4 | \$ 75.4 | \$ 74.0 |
| Interest | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Withdraws (MRSM) | \$ (1.3) | \$ (1.4) | \$ (1.6) | \$ (1.3) | \$ (1.9) | \$ (2.0) | \$ (1.4) | \$ (1.7) |
| Ending Balance | \$ 83.6 | \$ 82.2 | \$ 80.6 | \$ 79.3 | \$ 77.4 | \$ 75.4 | \$ 74.0 | \$ 72.3 |
| <u>Rural Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 64.4 | \$ 64.5 | \$ 64.6 | \$ 64.7 | \$ 64.8 | \$ 64.9 | \$ 64.7 | \$ 64.7 |
| Interest | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ - | \$ 0.1 |
| Withdraws (MRSM) | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Ending Balance | \$ 64.5 | \$ 64.6 | \$ 64.7 | \$ 64.8 | \$ 64.9 | \$ 65.0 | \$ 64.7 | \$ 64.8 |

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment to Response for AG 1-88 (b)
Reserve Fund Balances (In Millions)

| | Forecast 2013 <u>June</u> | Forecast 2013 <u>July</u> | Forecast 2013 <u>August</u> | Forecast 2013 <u>September</u> | Forecast 2013 <u>October</u> | Forecast 2013 <u>November</u> | Forecast 2013 <u>December</u> | Forecast 2014 <u>January</u> |
|--------------------------------------|---------------------------------|---------------------------------|-----------------------------------|--------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| <u>Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 72.3 | \$ 70.1 | \$ 67.8 | \$ 65.8 | \$ 64.0 | \$ 62.0 | \$ 60.0 | \$ 57.8 |
| Interest | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Withdraws (MRSM) | \$ (2.2) | \$ (2.3) | \$ (2.0) | \$ (1.8) | \$ (2.0) | \$ (2.0) | \$ (2.2) | \$ (3.4) |
| Ending Balance | \$ 70.1 | \$ 67.8 | \$ 65.8 | \$ 64.0 | \$ 62.0 | \$ 60.0 | \$ 57.8 | \$ 54.4 |
| <u>Rural Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 64.8 | \$ 64.9 | \$ 65.0 | \$ 65.1 | \$ 65.2 | \$ 65.3 | \$ 65.4 | \$ 65.6 |
| Interest | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.2 | \$ 0.1 |
| Withdraws (MRSM) | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Ending Balance | \$ 64.9 | \$ 65.0 | \$ 65.1 | \$ 65.2 | \$ 65.3 | \$ 65.4 | \$ 65.6 | \$ 65.7 |

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Attachment to Response for AG 1-88(b)

Sponsoring Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment to Response for AG 1-88 (b)
Reserve Fund Balances (In Millions)

| | Forecast 2014 <u>February</u> | Forecast 2014 <u>March</u> | Forecast 2014 <u>April</u> | Forecast 2014 <u>May</u> | Forecast 2014 <u>June</u> | Forecast 2014 <u>July</u> | Forecast 2014 <u>August</u> | Forecast 2014 <u>September</u> |
|--------------------------------------|-------------------------------------|----------------------------------|----------------------------------|--------------------------------|---------------------------------|---------------------------------|-----------------------------------|--------------------------------------|
| <u>Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 54.4 | \$ 44.9 | \$ 35.8 | \$ 27.8 | \$ 19.2 | \$ 9.2 | \$ - | \$ - |
| Interest | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Withdraws (MRSM) | \$ (9.5) | \$ (9.1) | \$ (8.0) | \$ (8.6) | \$ (10.0) | \$ (9.2) | \$ - | \$ - |
| Ending Balance | \$ 44.9 | \$ 35.8 | \$ 27.8 | \$ 19.2 | \$ 9.2 | \$ - | \$ - | \$ - |
| <u>Rural Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 65.7 | \$ 65.8 | \$ 65.9 | \$ 66.0 | \$ 66.1 | \$ 66.2 | \$ 64.6 | \$ 56.3 |
| Interest | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 |
| Withdraws (MRSM) | \$ - | \$ - | \$ - | \$ - | \$ - | \$ (1.7) | \$ (8.4) | \$ (6.9) |
| Ending Balance | \$ 65.8 | \$ 65.9 | \$ 66.0 | \$ 66.1 | \$ 66.2 | \$ 64.6 | \$ 56.3 | \$ 49.5 |

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment to Response for AG 1-88 (b)
Reserve Fund Balances (In Millions)

| | Forecast 2014 <u>October</u> | Forecast 2014 <u>November</u> | Forecast 2014 <u>December</u> | Forecast 2015 <u>January</u> | Forecast <u>2016</u> |
|--------------------------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------|
| <u>Economic Reserve</u> | | | | | |
| Beginning Balance | \$ - | \$ - | \$ - | \$ - | \$ - |
| Interest | \$ - | \$ - | \$ - | \$ - | \$ - |
| Withdraws (MRSM) | \$ - | \$ - | \$ - | \$ - | \$ - |
| Ending Balance | \$ - | \$ - | \$ - | \$ - | \$ - |

| | | | | | |
|--------------------------------------|----------|----------|----------|----------|------|
| <u>Rural Economic Reserve</u> | | | | | |
| Beginning Balance | \$ 49.5 | \$ 43.6 | \$ 37.0 | \$ 28.7 | \$ - |
| Interest | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ - | \$ - |
| Withdraws (MRSM) | \$ (6.0) | \$ (6.7) | \$ (8.4) | \$ (8.6) | \$ - |
| Ending Balance | \$ 43.6 | \$ 37.0 | \$ 28.7 | \$ 20.1 | \$ - |

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment to Response for AG 1-88(d)(ii)
Reserve Fund Balances (In Millions)

| | Actual 2012 <u>October</u> | Actual 2012 <u>November</u> | Actual 2012 <u>December</u> | Actual 2013 <u>January</u> | Actual 2013 <u>February</u> | Actual 2013 <u>March</u> | Forecast 2013 <u>April</u> | Forecast 2013 <u>May</u> |
|--------------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------------|----------------------------------|--------------------------------|
| <u>Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 84.9 | \$ 83.6 | \$ 82.2 | \$ 80.6 | \$ 79.3 | \$ 77.4 | \$ 75.4 | \$ 74.0 |
| Interest | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Withdraws (MRSM) | \$ (1.3) | \$ (1.4) | \$ (1.6) | \$ (1.3) | \$ (1.9) | \$ (2.0) | \$ (1.4) | \$ (1.7) |
| Ending Balance | \$ 83.6 | \$ 82.2 | \$ 80.6 | \$ 79.3 | \$ 77.4 | \$ 75.4 | \$ 74.0 | \$ 72.3 |
| <u>Rural Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 64.4 | \$ 64.5 | \$ 64.6 | \$ 64.7 | \$ 64.8 | \$ 64.9 | \$ 64.7 | \$ 64.7 |
| Interest | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ - | \$ 0.1 |
| Withdraws (MRSM) | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Ending Balance | \$ 64.5 | \$ 64.6 | \$ 64.7 | \$ 64.8 | \$ 64.9 | \$ 65.0 | \$ 64.7 | \$ 64.8 |

Case No. 2013-00199

Attachment to Response for AG 1-88(d)(ii)

Sponsoring Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment to Response for AG 1-88(d)(ii)
Reserve Fund Balances (In Millions)

| | Forecast 2013 <u>June</u> | Forecast 2013 <u>July</u> | Forecast 2013 <u>August</u> | Forecast 2013 <u>September</u> | Forecast 2013 <u>October</u> | Forecast 2013 <u>November</u> | Forecast 2013 <u>December</u> | Forecast 2014 <u>January</u> |
|--------------------------------------|---------------------------------|---------------------------------|-----------------------------------|--------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| <u>Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 72.3 | \$ 70.1 | \$ 67.8 | \$ 65.8 | \$ 64.0 | \$ 62.0 | \$ 60.0 | \$ 57.8 |
| Interest | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Withdraws (MRSM) | \$ (2.2) | \$ (2.3) | \$ (2.0) | \$ (1.8) | \$ (2.0) | \$ (2.0) | \$ (2.2) | \$ (3.4) |
| Ending Balance | \$ 70.1 | \$ 67.8 | \$ 65.8 | \$ 64.0 | \$ 62.0 | \$ 60.0 | \$ 57.8 | \$ 54.4 |
| <u>Rural Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 64.8 | \$ 64.9 | \$ 65.0 | \$ 65.1 | \$ 65.2 | \$ 65.3 | \$ 65.4 | \$ 65.6 |
| Interest | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.2 | \$ 0.1 |
| Withdraws (MRSM) | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Ending Balance | \$ 64.9 | \$ 65.0 | \$ 65.1 | \$ 65.2 | \$ 65.3 | \$ 65.4 | \$ 65.6 | \$ 65.7 |

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment to Response for AG 1-88(d)(ii)
Reserve Fund Balances (In Millions)

| | Forecast 2014 <u>February</u> | Forecast 2014 <u>March</u> | Forecast 2014 <u>April</u> | Forecast 2014 <u>May</u> | Forecast 2014 <u>June</u> | Forecast 2014 <u>July</u> | Forecast 2014 <u>August</u> | Forecast 2014 <u>September</u> |
|--------------------------------------|-------------------------------------|----------------------------------|----------------------------------|--------------------------------|---------------------------------|---------------------------------|-----------------------------------|--------------------------------------|
| <u>Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 54.4 | \$ 50.8 | \$ 47.3 | \$ 44.1 | \$ 40.6 | \$ 36.6 | \$ 32.8 | \$ 28.6 |
| Interest | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Withdraws (MRSM) | \$ (3.6) | \$ (3.5) | \$ (3.2) | \$ (3.5) | \$ (4.0) | \$ (3.8) | \$ (4.2) | \$ (3.8) |
| Ending Balance | \$ 50.8 | \$ 47.3 | \$ 44.1 | \$ 40.6 | \$ 36.6 | \$ 32.8 | \$ 28.6 | \$ 24.8 |
| <u>Rural Economic Reserve</u> | | | | | | | | |
| Beginning Balance | \$ 65.7 | \$ 65.8 | \$ 65.9 | \$ 66.0 | \$ 66.1 | \$ 66.2 | \$ 66.3 | \$ 66.4 |
| Interest | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 |
| Withdraws (MRSM) | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Ending Balance | \$ 65.8 | \$ 65.9 | \$ 66.0 | \$ 66.1 | \$ 66.2 | \$ 66.3 | \$ 66.4 | \$ 66.5 |

Case No. 2013-00199

Attachment to Response for AG 1-88(d)(ii)

Sponsoring Witness: Billie J. Richert

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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment to Response for AG 1-88(d)(ii)
Reserve Fund Balances (In Millions)

| | Forecast 2014 <u>October</u> | Forecast 2014 <u>November</u> | Forecast 2014 <u>December</u> | Forecast 2015 <u>January</u> | Forecast <u>2016</u> |
|--------------------------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------|
| <u>Economic Reserve</u> | | | | | |
| Beginning Balance | \$ 24.8 | \$ 21.5 | \$ 18.1 | \$ 14.2 | \$ - |
| Interest | \$ - | \$ - | \$ - | \$ - | \$ - |
| Withdraws (MRSM) | \$ (3.3) | \$ (3.4) | \$ (3.9) | \$ (4.1) | \$ - |
| Ending Balance | \$ 21.5 | \$ 18.1 | \$ 14.2 | \$ 10.1 | \$ - |

Rural Economic Reserve

| | | | | | |
|-------------------|---------|---------|---------|---------|-----------|
| Beginning Balance | \$ 66.5 | \$ 66.6 | \$ 66.7 | \$ 66.8 | \$ 43.6 |
| Interest | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.1 | \$ 0.8 |
| Withdraws (MRSM) | \$ - | \$ - | \$ - | \$ - | \$ (36.4) |
| Ending Balance | \$ 66.6 | \$ 66.7 | \$ 66.8 | \$ 66.9 | \$ 8.0 |

Case No. 2013-00199

Attachment to Response for AG 1-88(d)(ii)

Sponsoring Witness: Billie J. Richert

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BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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CASE NO. 2013-00199**

**Response to the Office of the Attorney General's
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September 3, 2013

1 **Item 89)** *Provide all documents which contain analysis supporting any decision made*
2 *by Big Rivers to defer previously scheduled production plant maintenance outages*
3 *beginning in 2010 through 2016. Show and explain the amount and impact by account*
4 *number (or cost element) for actual FYs 2010 through 2012, actual 2013 YTD, base period*
5 *(show actual and forecasted amounts separately) and the forecasted test period), and*
6 *forecasted 2016.*

7

8 **Response)** Please refer to the files as provided in Big Rivers' response to AG 1-85 in
9 Case No. 2012-00535 for outage deferrals/cancellations in years 2010-12. In 2013, the
10 Coleman Unit 1 outage was deferred from the spring of 2013 to the fall of 2013 due to the
11 uncertainty surrounding the Century Hawesville smelter and the potential temporary idling of
12 the Coleman plant. There have been no outage deferrals/cancellations in years 2014-2016.

13

14 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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- 1 **Item 90)** *Please refer to the Berry Direct Testimony. Provide five year benchmarking*
2 *study completed in April 2013 for period from January 2008 through December 2012.*
3 *Provide any subsequent benchmarking study.*
4
5 **Response)** Please see Big Rivers' response to KIUC 1-39.
6
7 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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Response to the Office of the Attorney General's
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1 **Item 91)** *Please provide all company staff assessments and risk evaluations regarding*
2 *the condition of each production facility and planned maintenance schedule and activities*
3 *from 2010 through 2016.*

4

5 **Response)** Please see Big Rivers' response to KIUC 1-40.

6

7 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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- 1 **Item 92)** *Please provide historical and projected MISO costs used to develop Big*
2 *Rivers forecast in electronic format compatible with Microsoft Office programs.*
3
4 **Response)** Please see Big Rivers' response to AG 1-125.
5
6 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 93)** *Please provide historical values associated with MISO FTR Market*
2 *settlements used to develop Big Rivers' forecast in electronic format compatible with*
3 *Microsoft Office programs.*

4

5 **Response)** Please see Big Rivers' response to AG 1-125.

6

7 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 94)** *Please provide historical values used to develop Big Rivers' forecast for*
2 *MISO non-administrative and non-transmission related costs in electronic format*
3 *compatible with Microsoft Office programs.*

4

5 **Response)** Please see Big Rivers' response to AG 1-125.

6

7 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 95)** *Please provide calculations and results used to determine "realized*
2 *revenues" from the TVA transmission path in 2012 as well as the calculations and*
3 *assumptions that were used to use this 2012 "realized revenue" to forecast projected*
4 *revenues. Provide information in electronic format compatible with Microsoft Office*
5 *programs.*

6
7 **Response)** Please see the attached spreadsheet which shows the realized revenues on the
8 TVA transmission in 2012. For budgeting purposes, Big Rivers assumed it would sell the
9 full capacity of the TVA transmission reservation in 2014 for [REDACTED]/MWh. The resulting
10 revenues were [REDACTED] (100 MW times 8,760 hours times [REDACTED]). These numbers have
11 been provided under petition for confidential treatment.

12
13 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION
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FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199

Response to the Office of the Attorney General's
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1 **Item 95)** *Please provide calculations and results used to determine "realized*
2 *revenues" from the TVA transmission path in 2012 as well as the calculations and*
3 *assumptions that were used to use this 2012 "realized revenue" to forecast projected*
4 *revenues. Provide information in electronic format compatible with Microsoft Office*
5 *programs.*

6

7 **Response)** Please see the attached spreadsheet which shows the realized revenues on the
8 TVA transmission in 2012. For budgeting purposes, Big Rivers assumed it would sell the
9 full capacity of the TVA transmission reservation in 2014 for [REDACTED]/MWh. The resulting
10 revenues were [REDACTED] (100 MW times 8,760 hours times [REDACTED]). These numbers have
11 been provided under petition for confidential treatment.

12

13 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION
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1 **Item 96)** *Please refer to the Berry Direct Testimony at page 20, line 15-18: Provide*
2 *the generating operating characteristics (capacity, heat rates, outage rates, ramp rates, fuel*
3 *contract information, demand and energy forecasts and other production cost model input)*
4 *that Big Rivers supplied ACES to run the production cost model used in the application in*
5 *electronic format compatible with Microsoft Office programs.*

6

7 **Response)** Please see Big Rivers' response to KIUC 1-12(b,d-g).

8

9 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION
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1 **Item 97)** *Please refer to the Berry Direct Testimony at page 20, line 22: Provide the*
2 *ACES production model output used in the Big Rivers financial forecast used in the*
3 *application in electronic format compatible with Microsoft Office programs.*

4
5 **Response)** Please see the Confidential CD provided in response to PSC 1-57 and the file
6 entitled "PCM Run".

7
8 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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**Response to the Office of the Attorney General's
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1 **Item 98)** *Please refer to the Berry Direct Testimony at page 20, line 22: Provide all*
2 *Big Rivers' production cost models resulting from ACES PAR outputs provided to Big*
3 *Rivers since January 1, 2012 in electronic format compatible with Microsoft Office*
4 *programs.*

5
6 **Response)** Please see the attached CONFIDENTIAL electronic file(s) containing 57
7 production cost model runs exhibits (outputs) ACES has provided since January 1, 2012,
8 provided under a petition for confidential treatment. PCM run file names are listed below in
9 chronological order with most recent listed first. There were also an additional 32 models
10 runs during this time period which are not provided in this response. Ten of the 32 runs were
11 provided in Case No. 2012-00535 and the remaining 22 were provided in Case No 2012-
12 00063.

13 "AG 1-98, PCM Run,WilsonColeIdle,10% higher (5-3-13).xlsx"

14 "AG 1-98, PCM Run,WilsonColeIdle,10% lower (5-3-13).xlsx"

15 "AG 1-98, PCM Run,All Running,10% higher (5-3-13).xlsx"

16 "AG 1-98, PCM Run,All Running,10% lower (5-3-13).xlsx"

17 "AG 1-98, PCM Run,WilsonIdle (4-23-13).xlsx"

18 "AG 1-98, PCM Run,ColemanIdle (4-23-13).xlsx"

BIG RIVERS ELECTRIC CORPORATION

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September 3, 2013

- 1 "AG 1-98, PCM Run,ColeGreenIdle (4-23-13).xlsx"
- 2 "AG 1-98, PCM Run,WilsonGreenIdle (4-23-13).xlsx"
- 3 "AG 1-98, PCM Run,WilsonColeIdle-Back (4-22-13).xlsx"
- 4 "AG 1-98, PCM Run,WilsonColeIdle (4-15-13).xlsx"
- 5 "AG 1-98, PCM Run,All Running (4-15-13).xlsx"
- 6 "AG 1-98, PCM Run,WilsonColeIdle (4-8-13).xlsx"
- 7 "AG 1-98, PCM Run,WilsonIdle (4-8-13).xlsx"
- 8 "AG 1-98, PCM Run,ColemanIdle (4-8-13).xlsx"
- 9 "AG 1-98, PCM Run,WilsonGreenIdle (4-8-13).xlsx"
- 10 "AG 1-98, PCM Run,ColeGreenIdle (4-8-13).xlsx"
- 11 "AG 1-98, PCM Run,All Running (4-8-13).xlsx"
- 12 "AG 1-98, PCM Run,Deterministic,WilsonIdle (2-25-13).xlsx"
- 13 "AG 1-98, PCM Run,Stochastic,WilsonIdle (2-25-13).xlsx"
- 14 "AG 1-98, PCM Run,All Running (1-31-13).xlsx"
- 15 "AG 1-98, PCM Run,WilsonIdle (1-23-13).xlsx"
- 16 "AG 1-98, PCM Run,ColemanIdle (1-23-13).xlsx"
- 17 "AG 1-98, PCM Run,GreenIdle (1-23-13).xlsx"
- 18 "AG 1-98, PCM Run,HMPLIdle (1-23-13).xlsx"

BIG RIVERS ELECTRIC CORPORATION
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- 1 "AG 1-98, PCM Run,Deterministic,WilsonIdle (1-10-13).xlsx"
- 2 "AG 1-98, PCM Run,Stochastic,WilsonIdle (1-10-13).xlsx"
- 3 Five 15 year PCM runs (11-27-12) and five 4 year PCM runs (10-17-12), provided in Case
- 4 No 2012-00535.
- 5 "AG 1-98, PCM Run,BaseCase (9-7-12).xlsx"
- 6 "AG 1-98, PCM Run,Sens.1 (9-7-12).xlsx"
- 7 "AG 1-98, PCM Run,Sens.2 (9-7-12).xlsx"
- 8 "AG 1-98, PCM Run,Sens.3 (9-7-12).xlsx"
- 9 "AG 1-98, PCM Run,BaseCase, (9-5-12).xlsx"
- 10 "AG 1-98, PCM Run,BaseCase,NoCentury (9-5-12).xlsx"
- 11 "AG 1-98, PCM Run,MustRun, (9-5-12).xlsx"
- 12 "AG 1-98, PCM Run,MustRun,NoCentury (9-5-12).xlsx"
- 13 "AG 1-98, PCM Run,BaseCase rev.1, (8-6-12).xlsx"
- 14 "AG 1-98, PCM Run,MustRun rev.1, (8-6-12).xlsx"
- 15 "AG 1-98, PCM Run,BaseCase, (8-1-12).xlsx"
- 16 "AG 1-98, PCM Run,MustRun, (8-1-12).xlsx"
- 17 "AG 1-98, PCM Run,MustRun rev.2 (7-5-12).xlsx"
- 18 "AG 1-98, PCM Run,BaseCase v-limits rev.2 (7-5-12).xlsx"

BIG RIVERS ELECTRIC CORPORATION

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- 1 "AG 1-98, PCM Run,BaseCase v-limits rev.1 (7-3-12).xlsx"
- 2 "AG 1-98, PCM Run,MustRun rev.1 (7-3-12).xlsx"
- 3 "AG 1-98, PCM Run,BaseCase v-limits (6-8-12).xlsx"
- 4 "AG 1-98, PCM Run,BaseCase (6-6-12).xlsx"
- 5 "AG 1-98, PCM Run,MustRun (6-6-12).xlsx"
- 6 Twenty-two PCM Runs dated between 5-22-12 to 2-2-12 (all 15 year runs), provided in Case
- 7 No. 2012-00063
- 8 "AG 1-98, PCM Run,BaseCase (4-30-12).xlsx"
- 9 "AG 1-98, PCM Run,MustRun (4-30-12).xlsx"
- 10 "AG 1-98, PCM Run,EconSens (4-30-12).xlsx"
- 11 "AG 1-98, PCM Run,BaseSens (4-3-12).xlsx"
- 12 "AG 1-98, PCM Run,EconSens (4-3-12).xlsx"
- 13 "AG 1-98, PCM Run,BaseCase (3-28-12).xlsx"
- 14 "AG 1-98, PCM Run,Sens 2 (3-12-12).xlsx"
- 15 "AG 1-98, PCM Run,Sens 1 (3-12-12).xlsx"
- 16 "AG 1-98, PCM Run,BaseCase (3-7-12).xlsx"
- 17 "AG 1-98, PCM Run,BaseCase (1-26-12).xlsx"
- 18 "AG 1-98, PCM Run,GreenIdle (1-26-12).xlsx"

BIG RIVERS ELECTRIC CORPORATION

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September 3, 2013

1 "AG 1-98, PCM Run,GreenIdleShldrs (1-26-12).xlsx"

2

3 **Witness)** Robert W. Berry

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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**Response to the Office of the Attorney General's
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- 1 **Item 99)** *Please refer to the Berry Direct Testimony at page 20, line 22: Provide*
2 *copies of all written and electronic correspondence between Big Rivers and ACES*
3 *regarding PAR model outputs ACES has performed for Big Rivers since January 1, 2012.*
4
5 **Response)** Please see Big Rivers' response to KIUC 1-88.
6
7 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION
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Response to the Office of the Attorney General's
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1 **Item 100)** *Please provide a list of planned major outage activities for each unit for*
2 *each outage for 2013 through 2016.*

3

4 **Response)** Please see Big Rivers' response to KIUC 1-40(c)

5

6 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 101)** *Please provide any changes to the 2013 through 2017 outage schedule from*
2 *implementation of the Load Concentration Mitigation Plan. Detail should include all*
3 *major outage activities for each unit and each outage.*

4

5 **Response)** Please see the CONFIDENTIAL attachments to this response for the outage
6 schedule changes and a list of the outage activities that were scheduled prior to
7 implementation of Big Rivers' Load Concentration Analysis and Mitigation Plan. The 2013
8 Coleman outage was reduced in scope to lower the cost due to the expected temporary idling
9 of the plant. No scheduled outages will be performed on the units while they are in an idled
10 status; therefore, the remaining Coleman and Wilson scheduled outages were cancelled
11 during the period in which they are temporary idled.

12

13 **Witness)** Robert W. Berry

**Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-101
Outage Changes Since Implementation of the Load Concentration Mitigation Plan**

2013 Major Outage Objectives

[REDACTED]

**Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-101
Outage Changes Since Implementation of the Load Concentration Mitigation Plan**

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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[REDACTED]

[REDACTED]

Outage Changes Since Implementation of the Load Concentration Mitigation Plan

[Redacted text block]

[Redacted text block]

[Redacted text block]

**Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-101
Outage Changes Since Implementation of the Load Concentration Mitigation Plan**

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**Big Rivers Electric Corporation
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Outage Changes Since Implementation of the Load Concentration Mitigation Plan**

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Outage Changes Since Implementation of the Load Concentration Mitigation Plan

[REDACTED]

[REDACTED]

[REDACTED]

**Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-101**

Outage Changes Since Implementation of the Load Concentration Mitigation Plan

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

**Big Rivers Electric Corporation
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Attachment for Response to AG 1-101
Outage Changes Since Implementation of the Load Concentration Mitigation Plan**

[REDACTED]

[REDACTED]

When the Load Concentration Analysis and Mitigation Plan was implemented in August of 2012, detailed plans for the 2017 outages had not yet been prepared. Detailed plans for the 2017 outages are currently being drafted for inclusion in Big Rivers' 2014 - 2017 Production Work Plan.

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-101
Outage Changes Since Implementation of the Load Concentration Mitigation Plan

| | Unit | Net MW | 2013 | Change | 2014 | Change | 2015 | Change | 2016 | Change | 2017 | Change | Overall Change |
|-----------------------------|-------------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|----------------|
| Outage Schedule August 2012 | Wilson | 417 | | | | | | | | | | | |
| Current Outage Schedule | Wilson | | | | | | | | | | | | |
| Outage Schedule August 2012 | Coleman 1 | 150 | | | | | | | | | | | |
| Current Outage Schedule | Coleman 1 | | | | | | | | | | | | |
| Outage Schedule August 2012 | Coleman 2 | 138 | | | | | | | | | | | |
| Current Outage Schedule | Coleman 2 | | | | | | | | | | | | |
| Outage Schedule August 2012 | Coleman 3 | 155 | | | | | | | | | | | |
| Current Outage Schedule | Coleman 3 | | | | | | | | | | | | |
| Outage Schedule August 2012 | Coleman FGD | | | | | | | | | | | | |
| Current Outage Schedule | Coleman FGD | | | | | | | | | | | | |
| Total Changes | | | | | | | | | | | | | |

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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CASE NO. 2013-00199**

**Response to the Office of the Attorney General's
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September 3, 2013

1 **Item 102)** *Please refer to Exhibit Berry 2: Provide detail of each item in capital*
2 *construction budget 2014-2016 by unit and year. Include description of implementation*
3 *and if and why an outage or derate is required for implementation (as well as expected*
4 *duration of outage or derate), reason for performance of activity (environmental*
5 *requirement, recommended maintenance, industry issue, etc.), and whether activity is*
6 *scheduled based on expected run hours, age, commitment or expected inspection results or*
7 *other basis for schedule.*

8
9 **Response)** Please see the CONFIDENTIAL attachment to this response, which is
10 provided pursuant to a petition for confidential treatment, for the details requested of the
11 capital construction budget for 2014 - 2016.

12
13 **Witness)** Robert W. Berry

**CONFIDENTIAL
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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**Response to the Office of the Attorney General's
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1 **Item 103)** *Please refer to Exhibit Berry 2: Provide all details of any changes to each*
2 *item in capital construction budget 2014-2016 by unit and year caused by implementation*
3 *of Load Concentration Mitigation Plan. Information should include details previously*
4 *provided including changes to implementation (as well as expected duration of outage or*
5 *derate), changes to reason for performance of activity (environmental requirement,*
6 *recommended maintenance, industry issue, etc.), and changes to whether activity is*
7 *scheduled based on expected run hours, age, commitment or expected inspection results or*
8 *other basis for schedule.*

9
10 **Response)** Big Rivers objects that this request is overly broad and unduly burdensome
11 insofar as it seeks "details previously provided." Notwithstanding these objections, and
12 without waiving them, please see Big Rivers response to KIUC 1-42(a).

13
14 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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Response to the Office of the Attorney General's
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1 **Item 104)** *Provide Wilson and Coleman Lay-Up plans as well as all scheduled*
2 *activities to occur during Wilson and Coleman Lay-Up as well as details regarding Wilson*
3 *Lay-Up plan security, operating, maintenance and administration staff necessary to*
4 *implement the plan.*

5

6 **Response)** Please see the attachments to this response for copies of the Wilson and
7 Coleman layup plan overviews.

8

9 **Witness)** Robert W. Berry

Big Rivers Electric Corporation
Case No. 2013-00199

Attachment for Response to AG 1-104

BIG RIVERS ELECTRIC CORPORATION

PLANT LAY-UP OVERVIEW

COLEMAN STATION

Lay-up Committee

8/23/2013

River Area

| | |
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| Circulating water pumps | |
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- Maintain and operate pumps monthly
- Operate intake crane monthly

- Clean, flush, drain
- Secure gantry crane to prevent movement during storms

Case No. 2013-00199, Attachment for Response to AG 1-104, Witness: Robert W. Berry

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In-Service

Lay-up Preparation

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| | <ul style="list-style-type: none"> • Protect cables and sheaves with corrosion inhibitors • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Circulating water intake screen</p> <ul style="list-style-type: none"> • Maintain and operate intake screens monthly • Maintain and operate screen wash pumps monthly | <ul style="list-style-type: none"> • Clean, flush and drain screens and screen wash pumps • Close cell gates to each circulating water pump |
| <p>Circulating water piping</p> <ul style="list-style-type: none"> • Maintain piping drained but ready for service | <ul style="list-style-type: none"> • Clean, flush, drain and winterize |
| <p>Intake electrical motor control center</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors |
| <p>Tug boat</p> | <ul style="list-style-type: none"> • Relocate to other station or dry dock |
| <p>Barge unloader</p> <ul style="list-style-type: none"> • Maintain access doors closed to eliminate bird entry • Operate equipment monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize barge unloader • Place clamshell bucket on grate and thoroughly lubricate • Protect cables and sheaves with corrosion inhibitors • Protect gearbox oil with dispersion / stabilization chemicals • Prevent bird entry by closing all access openings |
| <p>Barge unloader electrical and engine room</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors • Prevent bird entry by closing all access openings • Protect cables and sheaves with corrosion inhibitors • Protect gearbox oil with dispersion / stabilization chemicals |

In-Service

Lay-up Preparation

Fueland Material Handling

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| <p>Conveyor #1</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor #2</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor #3</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor #4</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |

Placing the station in an extended lay-up condition will require effective corrosion control to ensure maximum value retention of the assets. If the station is idled without proper preservation measures in place there will be considerable equipment deterioration. The degradation could be severe enough to warrant major repairs and/or restoration efforts when the plant is restored to service. Based on decades of research, the Electric Power Research Institute (EPRI) has published guidelines for best practices when laying-up a fossil fuel plant. These guidelines were used as the basis for this document. This document outlines a comprehensive plan to provide the greatest long term protection to the maximum amount of equipment, yet maintain the ability to restart the plant with minimal effort. From this document will be derived specific procedures for cleaning, preparing, preserving and maintaining the station as well as procedures for a future return to service. Routine maintenance considerations have been outlined in the column titled in-service. Activities associated with equipment lay-up are listed as lay-up preparation.

Activities associated with equipment lay-up pertains to all Coleman Station generating units, FGD, and auxiliary equipment

In-Service

Lay-up Preparation

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| <p>Conveyor #5</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor #6</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor #11 and 12</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Bunker Conveyors #7,8,9,10,13,and 14</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Segregating Gates</p> <ul style="list-style-type: none"> Operate gates monthly | <ul style="list-style-type: none"> Power wash and neutralize with 5% soda ash solution Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Fuel Blending Conveyors 15-18</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Limestone, Gypsum, Radial Stacker, Vacuum Filter Belts and Truck Unloading Conveyor</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals Secure Radial Stacker in place |
| <p>Crusher house</p> <ul style="list-style-type: none"> Maintain bird deterrents Rotate crusher 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize all equipment Protect hoppers with corrosion inhibitors Prevent bird entry by closing all access openings |

In-Service

Lay-up Preparation

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| | <ul style="list-style-type: none"> • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Crusher house electrical and fuel blending deluge building</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain and operate building heat • Maintain and operate deluge building heat • Maintain access doors closed to eliminate bird entry • Maintain ABB DCS control cabinets | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors |
| <p>Coal Reclaim, Limestone Reclaim, Truck Unloading Reclaim, & Egress Tunnels</p> <ul style="list-style-type: none"> • Maintain and operate sumps and vents continuously, verify weekly | |

Water Plant Area

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| <p>Site drainage</p> <ul style="list-style-type: none"> • Maintain and operate sump pumps as needed, verify weekly • Maintain and operate associated heat trace • Isolate pumps and seal water unless needed • Continue to perform required environmental sampling (KPDES) | |
| <p>Make-up clarifiers and water treatment pumps</p> <ul style="list-style-type: none"> • Rotate rake 1 ¼ turn with drive motor monthly • Rotate clarified water and backwash pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize clarifier and piping • Protect tank from sunlight and birds with mesh screen cover • Protect pumps in place with corrosion inhibitors |
| <p>Water plant building</p> <ul style="list-style-type: none"> • Maintain and operate building heat and fire protection • Maintain access doors closed to eliminate bird entry • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize all equipment and piping • Remove all media from vessels and dispose of properly, including RO membrane |
| <p>Bulk Acid & Caustic tanks</p> <ul style="list-style-type: none"> • Maintain, inspect, and drain as needed • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Drain and neutralize tank contents • Clean, flush, drain, and winterize pumps and piping |
| <p>Raw water pumps</p> | |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize all circulating water pumps |
| Raw water pump piping | <ul style="list-style-type: none"> • Clean, flush, drain and winterize • Protect pipe by increasing normal chemical concentrations |
| Well water pumps <ul style="list-style-type: none"> • Maintain and operate all pumps as needed, alternate monthly • Ensure heat trace and insulation are in good condition | <ul style="list-style-type: none"> • Open crosstie valve to provide firewater |

Turbine Generator

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| Transformer area sump pumps <ul style="list-style-type: none"> • Maintain and operate pumps as needed, verify weekly | |
| Air compressor <ul style="list-style-type: none"> • Rotate air compressors 1 ¼ turn by hand weekly • Maintain and operate lube oil system weekly • Maintain and operate new compressor continuously | <ul style="list-style-type: none"> • Install an air cooled air compressor capable of 200 CFM • Protect compressors in place with corrosion inhibitors • Protect lube oil with dispersion / stabilization chemicals |
| Air dryer system <ul style="list-style-type: none"> • Maintain and operate continuously, alternate monthly | |
| Vacuum pumps <ul style="list-style-type: none"> • Rotate vacuum pumps 1 ¼ turns by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps and piping • Protect pumps in place with corrosion inhibitors • Protect coolers with corrosion inhibitor capsules |
| Feedwater HP heaters - 5,6 | <ul style="list-style-type: none"> • Open all vents and drains to boil water from vessel • Protect with dehumidification before dew point is reached |
| Station and FGD batteries | |

In-Service

Lay-up Preparation

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|---|--|
| <ul style="list-style-type: none"> Maintain and inspect per current procedure | |
| <p>Laboratory area</p> | <ul style="list-style-type: none"> Remove and dispose of all laboratory chemicals Clean, flush, drain and winterize boiler water sample panel Protect equipment in place with corrosion inhibitors Protect electrical cabinets with corrosion inhibitors |
| <p>Chemical Make-up Area C1, C2, C3, & sumps</p> <ul style="list-style-type: none"> Maintain and operate as needed, verify weekly Maintain and operate seal water and associated heat trace Isolate sump pump and seal water unless needed Rotate chemical injection pumps 1 ¼ turns by hand monthly | <ul style="list-style-type: none"> Protect pumps in place with corrosion inhibitors Clean and remove any contaminants including hydrazine and ammonia Clean, flush, drain, and winterize chemical injection pump |
| <p>Lube oil system includes storage tanks</p> <ul style="list-style-type: none"> Maintain and operate lube oil system weekly Maintain and operate filtration system Maintain and operate clean and dirty storage tanks May require heat or continuous operating if temp < 70°F Test and analyze oil per established procedure | <ul style="list-style-type: none"> Protect lube oil with dispersion / stabilization chemicals Install new tank heaters at each lube oil tanks |
| <p>Hotwell</p> | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached |
| <p>Condenser and waterbox</p> | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached |
| <p>Closed cooling water system</p> <ul style="list-style-type: none"> Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize pumps and piping Protect pumps in place with corrosion inhibitors |
| <p>Feedwater LP heater 1,2,3</p> | <ul style="list-style-type: none"> Open all vents and drains to boil water from vessel Protect with dehumidification before dew point is reached |
| <p>Relay room and cable pull room</p> <ul style="list-style-type: none"> Maintain and operate fire protection system Maintain and operate HVAC systems Maintain ABB DCS control cabinets | |
| <p>EH system</p> <ul style="list-style-type: none"> Maintain and operate EH system weekly | <ul style="list-style-type: none"> Protect EH fluid with dispersion / stabilization chemicals |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> • May require heat or continuous operating if temp < 70°F • Test and analyze oil per established procedure | |
| Main turbine <ul style="list-style-type: none"> • Rotate turbine for 1 hour on turning gear weekly • Position rotor 90° from start position each time | <ul style="list-style-type: none"> • Open all vents and drains @ 400°F to boil water from vessel • Protect with dehumidification before dew point is reached • Install mechanical blocking devices to hold valves open |
| Generator/Exciter <ul style="list-style-type: none"> • Rotate generator for 1 hour on turning gear weekly | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Protect H₂ coolers, water side, with corrosion inhibitors • Protect exciter coolers, water side, with corrosion inhibitors • Purge and remove hydrogen from site |
| Seal Oil system <ul style="list-style-type: none"> • Maintain and operate seal oil system weekly • May require heat or continuous operating if temp < 70°F • Test and analyze oil per established procedure | <ul style="list-style-type: none"> • Protect seal oil fluid with dispersion / stabilization chemicals |
| 4160V Switchgear/480V bus/Motor Control Centers <ul style="list-style-type: none"> • Maintain integrity of switchgear heaters | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors |
| Control room <ul style="list-style-type: none"> • Maintain and operate HVAC systems | |

Boiler Building

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|--|--|
| PA Fan <ul style="list-style-type: none"> • Rotate fan 1 ¼ turn by hand weekly • May require heat or continuous operating if temp < 70°F | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Clean by dry vacuum after dry air equipment is in service • Protect lube oil with dispersion / stabilization chemicals |
| FD Fan <ul style="list-style-type: none"> • Rotate fan 1 ¼ turn by hand weekly • Stroke fan inlet vanes monthly • May require heat or continuous operating if temp < 70°F | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Clean by dry vacuum after dry air equipment is in service • Protect lube oil with dispersion / stabilization chemicals |
| Sump pumps | |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> Maintain and operate as needed, verify weekly | |
| Wetbottom and Bottom Ash Removal System <ul style="list-style-type: none"> Maintain seal on wetbottom Rotate ash sluice pumps 1 ¼ turn by hand monthly Rotate slag grinder 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment and piping Protect equipment with corrosion inhibitors Clean, flush, drain and winterize pyrite holding bin and equipment Protect pyrite holding bin with corrosion inhibitors Deslag unit when offline Protect lube oil with dispersion / stabilization chemicals |
| Pulverizers <ul style="list-style-type: none"> Maintain proper level for lube oil system weekly Operate pulverizers monthly | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service Protect lube oil with dispersion / stabilization chemicals |
| Ball Mill <ul style="list-style-type: none"> Rotate ballmill 1 ¼ turn with drive motor weekly Maintain and operate mill lift pump and lube oil pumps weekly | <ul style="list-style-type: none"> Remove, sort and drum ball charge or sell to supplier Clean, flush, drain and winterize ball mills Protect lubricant with dispersion / stabilization chemicals |
| Plant and FGD Diesel generator <ul style="list-style-type: none"> Maintain and operate per current OPL | <ul style="list-style-type: none"> Protect diesel fuel by adding stabilizer to storage tank |
| Air Preheater <ul style="list-style-type: none"> Maintain proper level for lube oil system weekly Rotate air heater 1 ¼ turn with air drive weekly | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service Protect lube oil with dispersion / stabilization chemicals |
| Burners / Windbox <ul style="list-style-type: none"> Move burner hoods by hand monthly Rotate Burner Seal Air fans 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service Protect lube oil with dispersion / stabilization chemicals |
| Coal bunkers | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| Radiation Sources <ul style="list-style-type: none"> Radiation officers to remove all radiation sources and relocate to | |

In-Service

Lay-up Preparation

| Wilson Station | |
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| Sootblowers <ul style="list-style-type: none"> Rotate sootblower gearbox monthly | <ul style="list-style-type: none"> Clean and remove fuel residue from all surfaces Protect steam piping Protect lube oil with dispersion / stabilization chemicals Protect electrical cabinets with corrosion inhibitors |
| Waterwalls, superheat, reheat and economizer, fire side <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Deslag on-line to thoroughly remove slag Install airtight seal at knees Protect with dehumidification before dew point is reached |
| Waterwalls, superheat, reheat and economizer, water side <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Open all vents and drains @ 400°F to boil water from tubes Protect with dehumidification before dew point is reached |
| Deaerator storage tank, #4 heater <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Open all vents and drains to boil water from vessel Protect with dehumidification before dew point is reached |
| Drums <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Open all vents and drains @ 400°F to boil water from vessel Protect with dehumidification before dew point is reached |
| Penthouses <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| Dead air spaces <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| Boiler Building <ul style="list-style-type: none"> Maintain and operate fire protection system above freezing Flush, drain and winterize external boiler firewater headers and piping | <ul style="list-style-type: none"> Construct enclosure to protect fire water headers Clean by dry vacuum all fuel residue from the boiler building |
| Deluge System <ul style="list-style-type: none"> Maintain, operate, and test per work package | |
| Station service, instrument, and FGD air compressor <ul style="list-style-type: none"> Rotate air compressors 1 ¼ turn by hand weekly | <ul style="list-style-type: none"> Protect compressors in place with corrosion inhibitors |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> Maintain and operate lube oil system weekly | <ul style="list-style-type: none"> Protect lube oil with dispersion / stabilization chemicals |
| Ash Recirculation system and pumps <ul style="list-style-type: none"> Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize pumps and piping Protect pumps in place with corrosion inhibitors |
| Propane tanks, vaporizers, and pumps <ul style="list-style-type: none"> Maintain, test and operate as needed | |
| Natural Gas System | <ul style="list-style-type: none"> Blank Natural Gas at isolation valve at each unit |

Electrostatic Precipitator

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| Precipitator Box and ductwork <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Internally wash ESP and neutralize with 5% soda ash solution |
| Plates, wires and rappers <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Internally wash ESP and neutralize with 5% soda ash solution Protect rappers with corrosion inhibitors |
| Flyash transport system | <ul style="list-style-type: none"> Clean, flush, drain and winterize Flyash system piping |

FGD – Flue Gas Desulfurization

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|--|---|
| Booster Fans <ul style="list-style-type: none"> Maintain and operate lube oil system weekly Rotate fan 1 ¼ turn by hand weekly | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Protect lube oil with dispersion / stabilization chemicals |
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In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> • May require heat or continuous operating if temp < 70°F • Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> • Clean by dry vacuum after dry air equipment is in service |
| <p>Inlet ducts</p> <ul style="list-style-type: none"> • Close and seal inlet guillotine dampers • Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • High pressure wash and rinse until discharge water is > 6pH • Passivate all internal surfaces with a 5% solution of soda ash • Dry out with heaters and seal access openings • Protect seal air blowers in place with corrosion inhibitors |
| <p>Absorber Module</p> <ul style="list-style-type: none"> • Maintain access doors closed to eliminate bird entry • Close and seal inlet guillotine dampers • Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> • Clean, flush, drain and winterize modules and piping • Lower doors open/covered by screens, access to agitators • Close all other access openings • Protect with dehumidification before dew point is reached • High pressure wash and rinse until discharge water is > 6pH • Passivate all internal surfaces with a 5% solution of soda ash • Dry out with heaters and seal access openings |
| <p>Outlet duct</p> <ul style="list-style-type: none"> • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize outlet duct and drain piping • Drains to remain open to allow moisture to escape • Close all other access openings • Protect seal air blowers in place with corrosion inhibitors |
| <p>FGD Stack</p> <ul style="list-style-type: none"> • Rotate pressurization fans 1 ¼ turn by hand monthly • Stroke louver damper by hand monthly • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize stack liner and drain piping • Protect pressurization fans in place with corrosion inhibitors • Protect louver dampers in place with corrosion inhibitors |
| <p>By-pass Stacks</p> <ul style="list-style-type: none"> • Stroke louver damper by hand monthly | <ul style="list-style-type: none"> • Protect louver dampers in place with corrosion inhibitors |
| <p>Recycle Pumps</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turns by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain, and winterize pumps and piping • Protect lubricant with dispersion / stabilization chemicals |
| <p>Agitators (Absorber module and storage tanks)</p> | |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> • Rotate agitator impeller 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize agitators • Protect lubricant with dispersion / stabilization chemicals • Release belt tension and apply corrosion inhibitors to drives • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Oxidation Air Blowers</p> <ul style="list-style-type: none"> • Maintain proper level for lube oil system weekly • Rotate gearbox 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Protect lube oil with dispersion / stabilization chemicals |
| <p>Primary Hydroclone pumps & sumps</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly • Maintain sump level with a portable sump pump | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps • Clean all slurry accumulations from all trenches and sumps • Protect bearing cartridges by thoroughly lubricating • Release belt tension and apply corrosion inhibitors to drives |
| <p>GDE Building</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly • Maintain and operate sump pumps as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed • Maintain and operate floor sumps as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize underflow pumps and piping • Protect gearbox oil with dispersion / stabilization chemicals • Prevent bird entry by closing all access openings • Clean slurry from all surfaces • Floor drains and sumps be left empty • Clean, flush, drain and winterize building • Prevent bird entry by closing all access openings |
| <p>GDE building electrical rooms</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain and operate HVAC systems • Maintain ABB DCS control cabinets | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors |

Limestone mill area

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| <p>Limestone mills</p> <ul style="list-style-type: none"> • Rotate ballmill 1 ¼ turn with drive motor weekly • Maintain and operate lift pumps and lube oil pumps weekly | <ul style="list-style-type: none"> • Remove, sort and drum ball charge or sell to supplier • Clean, flush, drain and winterize ball mills • Protect lubricant with dispersion / stabilization chemicals |
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In-Service

Lay-up Preparation

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|---|---|
| <p>Product sump and pumps</p> <ul style="list-style-type: none"> • Rotate sump pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize sumps and pumps • Protect bearing cartridges by thoroughly lubricating • Release belt tension and apply corrosion inhibitors to drives |
| <p>Limestone silo</p> <ul style="list-style-type: none"> • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean all limestone from silo interior • Clean all limestone from the equipment level and ground floor • Protect conveyor idler bearings by thoroughly lubricating • Prevent bird entry by closing all access openings |
| <p>Limestone prep building</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize sumps and pumps • Protect electrical cabinets with corrosion inhibitors • Prevent bird entry by closing all access openings |

Dewatering

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| <p>Vacuum filters</p> <ul style="list-style-type: none"> • Rotate belts 1 ¼ turn with drive motor monthly • Rotate agitator with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize drums and piping • Vats shall be left empty • Protect lube oil with dispersion / stabilization chemicals • Remove and dispose of filter cloth and attachment rope |
| <p>Vacuum pumps</p> <ul style="list-style-type: none"> • Rotate vacuum pumps 1 ¼ turns by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps and piping • Protect pumps in place with corrosion inhibitors • Protect coolers with corrosion inhibitor capsules |
| <p>Surge tanks and filter feed pumps</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps and piping • Tanks shall be left empty • Protect bearing cartridges by thoroughly lubricating • Release belt tension and apply corrosion inhibitors to drives |
| <p>Filtrate return pumps</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean all slurry residue from all surfaces |

In-Service

Lay-up Preparation

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| | <ul style="list-style-type: none"> • Sump shall be left empty • Release belt tension and apply corrosion inhibitors to drives |
| Secondary tank, wastewater, & associated sump pumps <ul style="list-style-type: none"> • Maintain and operate as needed to control level, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> • Clean all FGD residue from sump and surrounding area |
| Conveyors <ul style="list-style-type: none"> • Maintain and operate conveyor monthly | <ul style="list-style-type: none"> • Clean slurry from all surfaces • Protect idler bearings by thoroughly lubricating • Place stackout conveyor in the lowest possible position • Secure stackout conveyor to prevent movement during storms |

Buildings and Grounds

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| Site Security & Communication <ul style="list-style-type: none"> • Maintain Gai-tronics for emergency alarms • Maintain radios/repeaters for personnel communication • Maintain and operate underground fire protection system • Maintain and operate all plant lighting for safety and security • Maintain and operate stack strobe lights • Maintain and operate all entrance gates for security • Maintain and operate all security cameras | <ul style="list-style-type: none"> • Security patrols to be performed by operational personnel • Winterize above ground fire protection system or lay-up dry |
| Buildings and Facilities <ul style="list-style-type: none"> • Maintain and inspect cathodic protection including water tower, 3 year inspection • Maintain and inspect fire extinguishers • Maintain and inspect eye wash stations • Maintain and inspect outlying restroom facilities • Maintain and inspect elevators, annual certification required • Maintain and operate all outlying HVAC systems | |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> • Maintain and operate all building sprinkler systems • Maintain current mowing and weed control • Conduct dam inspections of all three ponds on a monthly basis • Conduct SPCC, BMP, GPP inspections on a monthly basis | |
| <p>Sewage Collection System</p> <ul style="list-style-type: none"> • Maintain and operate sewage lift stations, verify weekly | |
| <p>Overhead Cranes and Hoists</p> <ul style="list-style-type: none"> • Secure when not in use • Operate overhead cranes monthly | <ul style="list-style-type: none"> • Protect cables and sheaves with corrosion inhibitors • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Plant Vehicles</p> <ul style="list-style-type: none"> • Maintain water truck to transport water | <ul style="list-style-type: none"> • Heavy equipment transferred to other stations • Majority of plant vehicles transferred to other stations |

Staffing

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| <p>Layup Staffing</p> <ul style="list-style-type: none"> • 1 Supervisor • 9 Control Room Operators • 1 Auxiliary Operators • 1 Laboratory Operator • 1 Mechanic • 1 Electrician • 1 Instrument Technician | |
|--|--|

Big Rivers Electric Corporation
Case No. 2013-00199

Attachment for Response to AG 1-104

PLANT LAY-UP OVERVIEW

WILSON STATION

Lay-up Committee
12/12/2012

In-Service

Lay-up Preparation

River Area

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| River water pumps <ul style="list-style-type: none"> Maintain and operate pumps in recirculation mode monthly | <ul style="list-style-type: none"> Clean, flush, drain Secure gantry crane to prevent movement during storms |
| River water intake screen <ul style="list-style-type: none"> Maintain and operate intake screens monthly Maintain and operate screen wash pumps monthly | <ul style="list-style-type: none"> Clean, flush and drain screens and screen wash pumps |
| River water piping <ul style="list-style-type: none"> Maintain piping drained but ready for service | <ul style="list-style-type: none"> Clean, flush, drain and winterize Protect pipe by increasing normal chemical concentrations |
| River water intake electrical building <ul style="list-style-type: none"> Maintain and operate switchgear heaters Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> Protect electrical cabinets with corrosion inhibitors |
| Chlorine feed system <ul style="list-style-type: none"> Maintain chlorine system in case river water piping is used Utilize smaller chlorine storage cylinder Maintain access doors closed to eliminate bird entry | |
| Tug boat | <ul style="list-style-type: none"> Relocate to Green Station |

Placing the station in an extended lay-up condition will require effective corrosion control to ensure maximum value retention of the assets. If the station is idled without proper preservation measures in place there will be considerable equipment deterioration. The degradation could be severe enough to warrant major repairs and/or restoration efforts when the plant is restored to service. Based on decades of research, the Electric Power Research Institute (EPRI) has published guidelines for best practices when laying-up a fossil fuel plant. These guidelines were used as the basis for this document. This document outlines a comprehensive plan to provide the greatest long term protection to the maximum amount of equipment, yet maintain the ability to restart the plant with minimal effort. From this document will be derived specific procedures for cleaning, preparing, preserving and maintaining the station as well as procedures for a future return to service. Routine maintenance considerations have been outlined in the column titled in-service. Activities associated with equipment lay-up are listed as lay-up preparation.

In-Service

Lay-up Preparation

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| <p>Barge unloader</p> <ul style="list-style-type: none"> • Maintain access doors closed to eliminate bird entry • Maintain locked gate barricades to prevent unauthorized entry • Maintain and operate river water pump | <ul style="list-style-type: none"> • Clean, flush, drain and winterize barge unloader • Place clamshell bucket on grate and thoroughly lubricate • Protect cables and sheaves with corrosion inhibitors • Protect gearbox oil with dispersion / stabilization chemicals • Prevent bird entry by closing all access openings • Install locking gate type barriers to prevent unauthorized entry |
| <p>Barge unloader electrical building</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain and test batteries per current OPL • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors • Prevent bird entry by closing all access openings |

Fuel Handling

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| <p>Conveyor 10-1</p> <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor 10-2</p> <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly • Maintain runoff pond as needed, verify weekly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor 7-1</p> <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly • Maintain runoff pond as needed, verify weekly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor 7-2</p> <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly • Maintain runoff pond as needed, verify weekly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor 7-3</p> <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment |

In-Service

Lay-up Preparation

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| | <ul style="list-style-type: none"> • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| Conveyor 7-4 <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| Conveyor 9 <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| Conveyor 11A & 11B <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| Conveyor 8-1 <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| Conveyor 8-2 <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| Car dumper <ul style="list-style-type: none"> • Maintain and operate sump pump as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect hoppers with corrosion inhibitors • Prevent bird entry by closing all access openings, build a temporary metal wall to close openings • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| Car dumper electrical building <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors • Prevent bird entry by closing all access openings |
| Conveyor 1 | |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Sample tower</p> <ul style="list-style-type: none"> Maintain and test batteries per current procedure Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect hoppers with corrosion inhibitors Prevent bird entry by closing all access openings Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Sample tower electrical building</p> <ul style="list-style-type: none"> Maintain and operate switchgear heaters Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> Protect electrical cabinets with corrosion inhibitors Prevent bird entry by closing all access openings |
| <p>Conveyor 2</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Stacker / Reclaimer</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly Maintain and test batteries per current procedure Maintain bird deterrents | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect buckets and hoppers with corrosion inhibitors Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals Prevent bird entry by closing all access openings Protect electrical cabinets with corrosion inhibitors Secure boom at the south end of track on anchor point |
| <p>Conveyor 3</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Conveyor 3A</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly Maintain and operate sump pump as needed, verify weekly Maintain and operate seal water and associated heat trace Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |

In-Service

Lay-up Preparation

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| <p>Conveyor 4</p> <ul style="list-style-type: none"> • Maintain and operate conveyor with drive motor monthly • Maintain and operate sump pump as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Crusher tower</p> <ul style="list-style-type: none"> • Maintain bird deterrents | <ul style="list-style-type: none"> • Clean, flush, drain and winterize all equipment • Protect hoppers with corrosion inhibitors • Prevent bird entry by closing all access openings • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Crusher tower electrical and deluge buildings</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain and operate building heat • Maintain and operate deluge building heat • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors |
| <p>Conveyor 5A & 5B</p> <ul style="list-style-type: none"> • Maintain and operate conveyors with drive motor monthly • Maintain and operate fire protection system | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Tripper tower</p> <ul style="list-style-type: none"> • Maintain bird deterrents | <ul style="list-style-type: none"> • Clean, flush, drain and winterize all equipment • Protect hoppers with corrosion inhibitors • Prevent bird entry by closing all access openings • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |
| <p>Tripper tower electrical building</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors |
| <p>Conveyor 6A & 6B</p> <ul style="list-style-type: none"> • Maintain and operate conveyors with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize equipment • Protect idler bearings by thoroughly lubricating • Protect gearbox oil with dispersion / stabilization chemicals |

In-Service

Lay-up Preparation

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| <p>Conveyor 12</p> <ul style="list-style-type: none"> Maintain and operate conveyor with drive motor monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Protect idler bearings by thoroughly lubricating Protect gearbox oil with dispersion / stabilization chemicals |
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Water Plant Area

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| <p>Site drainage (KPDES 003)</p> <ul style="list-style-type: none"> Maintain and operate pumps as needed, verify weekly Maintain and operate seal water and associated heat trace Isolate pumps and seal water unless needed Continue to perform required environmental sampling | |
| <p>Waste impoundment pond</p> <ul style="list-style-type: none"> Maintain and operate pumps as needed, verify weekly Maintain and operate seal water and associated heat trace Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> Modify pump discharge to fill waste water pond |
| <p>Waste water pond</p> <ul style="list-style-type: none"> Maintain and operate pumps as needed, verify weekly Maintain and operate seal water and associated heat trace Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> Modify pump discharge to fill cooling tower basin |
| <p>Concrete pond</p> <ul style="list-style-type: none"> Maintain and operate pumps as needed, verify weekly | <ul style="list-style-type: none"> Pump to waste impoundment pond |
| <p>Make-up clarifiers and blowdown pumps</p> <ul style="list-style-type: none"> Rotate rake 1 ¼ turn with drive motor monthly Rotate blowdown pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize clarifier and piping Protect tank from sunlight and birds with mesh screen cover Protect pumps in place with corrosion inhibitors |
| <p>Water plant building</p> <ul style="list-style-type: none"> Maintain and operate building heat and fire protection Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> Clean, flush, drain and winterize all equipment and piping Remove all media from vessels and dispose of properly |
| <p>Cooling tower</p> <ul style="list-style-type: none"> Maintain basin between half and three fourths full Maintain biological control of water as needed | <ul style="list-style-type: none"> Refill basin from waste water ponds or truck from river Protect tower from sunlight and birds with mesh screen cover |

In-Service

Lay-up Preparation

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| | <ul style="list-style-type: none"> • Clean, flush, drain and winterize all chemical feed systems • Secure gantry crane to prevent movement during storms |
| Cooling tower fans <ul style="list-style-type: none"> • Rotate fans 1 ¼ turn by hand weekly • Maintain and operate lube oil pumps weekly | <ul style="list-style-type: none"> • Secure fan blades to eliminate unintended rotation of gearbox • Protect gearbox oil with dispersion / stabilization chemicals |
| Circulating water pumps <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize all circulating water pumps |
| Circulating water piping | <ul style="list-style-type: none"> • Clean, flush, drain and winterize • Protect pipe by increasing normal chemical concentrations |
| Cooling tower electrical building <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors • Prevent bird entry by closing all access openings |
| Service water pumps <ul style="list-style-type: none"> • Maintain and operate all pumps as needed, alternate monthly • Ensure heat trace and insulation are in good condition | <ul style="list-style-type: none"> • Open crosstie valve to provide firewater |
| Electric fire water pump <ul style="list-style-type: none"> • Maintain and operate pump as needed | |
| Diesel fire water pump, jockey pump and water storage tank <ul style="list-style-type: none"> • Refill with potable water • Maintain and operate diesel pump as needed, verify monthly • Maintain and test batteries per current procedure • Maintain and operate jockey pump continuously, verify weekly • Maintain and operate tank winterization, verify monthly • Maintain and operate heat trace in good condition • Maintain and operate sump pump as needed, verify weekly | <ul style="list-style-type: none"> • Install winterized piping from potable water system • Protect diesel fuel by adding stabilizer to storage tank |
| Potable water building <ul style="list-style-type: none"> • Maintain and operate building heat and fire protection • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize all equipment and piping • Protect equipment in place with corrosion inhibitors |
| Waste water clarifier <ul style="list-style-type: none"> • Rotate rake 1 ¼ turn with drive motor monthly • Rotate blowdown pump 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize all equipment and piping • Protect tank from sunlight and birds with mesh screen cover • |

In-Service

Lay-up Preparation

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| <p>Waste water discharge pumps (KPDES 001)</p> <ul style="list-style-type: none"> • Maintain and operate pumps as needed, verify weekly • Maintain and operate seal water and associated heat trace • Continue to perform required environmental sampling | <ul style="list-style-type: none"> • Sump can overflow to waste impoundment pond |
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Turbine Building

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| <p>Transformer area sump pumps</p> <ul style="list-style-type: none"> • Maintain and operate pumps as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed | |
| <p>Air compressor</p> <ul style="list-style-type: none"> • Rotate Centac air compressors 1 ¼ turn by hand weekly • Maintain and operate lube oil system weekly • Maintain and operate new compressor continuously | <ul style="list-style-type: none"> • Install an air cooled air compressor capable of 200 CFM • Protect compressors in place with corrosion inhibitors • Protect lube oil with dispersion / stabilization chemicals |
| <p>Air dryer system</p> <ul style="list-style-type: none"> • Maintain and operate continuously, alternate monthly | |
| <p>Vacuum pumps</p> <ul style="list-style-type: none"> • Rotate vacuum pumps 1 ¼ turns by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps and piping • Protect pumps in place with corrosion inhibitors • Protect coolers with corrosion inhibitor capsules |
| <p>Auxiliary BFP lube oil system</p> <ul style="list-style-type: none"> • Maintain and operate lube oil system weekly • Turn rotor 1 ¼ turn by hand weekly • May require heat or continuous operating if temp < 70°F • Test and analyze oil per established procedure | <ul style="list-style-type: none"> • Open all vents and drains @ 400°F to boil water from vessel • Protect lube oil with dispersion / stabilization chemicals • Clean, flush, drain and winterize pumps and piping |
| <p>Feedwater heaters, CH-J-1A and CH-J-1B</p> | <ul style="list-style-type: none"> • Open all vents and drains @ 400°F to boil water from vessel • Protect with dehumidification before dew point is reached |
| <p>Station batteries</p> <ul style="list-style-type: none"> • Maintain and inspect per current procedure | |
| <p>Laboratory area</p> | |

In-Service

Lay-up Preparation

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| | <ul style="list-style-type: none"> • Remove and dispose of all laboratory chemicals • Clean, flush, drain and winterize boiler water sample panel • Protect equipment in place with corrosion inhibitors • Protect electrical cabinets with corrosion inhibitors |
| Polisher area | <ul style="list-style-type: none"> • Remove and dispose of all media from process vessels • Clean, flush, drain and winterize all process vessels • Protect equipment in place with corrosion inhibitors • Remove insulation from vessels to prevent exterior corrosion |
| <p>Chemical area sump pumps</p> <ul style="list-style-type: none"> • Maintain and operate as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> • Clean and remove any contaminants |
| <p>Lube oil system includes storage tanks</p> <ul style="list-style-type: none"> • Maintain and operate lube oil system weekly • Maintain and operate filtration system "bowser" • Maintain and operate clean and dirty storage tanks • May require heat or continuous operating if temp < 70°F • Test and analyze oil per established procedure • Maintain and verify operation of tank cathodic protection • Maintain and operate leak detection system | <ul style="list-style-type: none"> • Protect lube oil with dispersion / stabilization chemicals |
| <p>Turbine building area sump</p> <ul style="list-style-type: none"> • Maintain and operate pumps as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> • Clean and remove any contaminants |
| Hotwell | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached |
| Condenser and waterbox | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached |
| <p>Closed cooling water system</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps and piping • Protect pumps in place with corrosion inhibitors |
| Boiler Feed Pump Turbine | |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> • Maintain and operate lube oil system weekly • Rotate turbine 1 ¼ turn with turning gear weekly • May require heat or continuous operating if temp < 70°F • Test and analyze oil per established procedure | <ul style="list-style-type: none"> • Open all vents and drains @ 400°F to boil water from vessel • Protect with dehumidification before dew point is reached • Protect lube oil with dispersion / stabilization chemicals • Clean, flush, drain and winterize pumps and piping |
| Feedwater heater, FD-J-4 | <ul style="list-style-type: none"> • Open all vents and drains @ 400°F to boil water from vessel • Protect with dehumidification before dew point is reached |
| Relay room and cable pull room <ul style="list-style-type: none"> • Maintain and operate fire protection system | |
| EH system <ul style="list-style-type: none"> • Maintain and operate EH system weekly • May require heat or continuous operating if temp < 70°F • Test and analyze oil per established procedure | <ul style="list-style-type: none"> • Protect EH fluid with dispersion / stabilization chemicals |
| Main turbine <ul style="list-style-type: none"> • Rotate turbine for 1 hour on turning gear weekly • Position rotor 90° from start position each time | <ul style="list-style-type: none"> • Open all vents and drains @ 400°F to boil water from vessel • Protect with dehumidification before dew point is reached • Install mechanical blocking devices to hold valves open |
| Generator/Exciter <ul style="list-style-type: none"> • Rotate generator for 1 hour on turning gear weekly | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Protect H₂ coolers, water side, with corrosion inhibitors • Protect exciter coolers, water side, with corrosion inhibitors • Purge and remove hydrogen from site |
| Feedwater heater, FD-J-2 and FD-J-3 | <ul style="list-style-type: none"> • Open all vents and drains @ 400°F to boil water from vessel • Protect with dehumidification before dew point is reached |
| Control room | <ul style="list-style-type: none"> • Install stand-alone HVAC system |
| Feedwater heater, FD-J-6 and FD-J-7 | <ul style="list-style-type: none"> • Open all vents and drains @ 400°F to boil water from vessel • Protect with dehumidification before dew point is reached |

In-Service

Lay-up Preparation

Boiler Building

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| <p>PA Fan</p> <ul style="list-style-type: none"> • Maintain and operate lube oil system weekly • Rotate fan 1 ¼ turn by hand weekly • Maintain and operate hydraulic system weekly • Stroke fan blades hydraulically weekly • May require heat or continuous operating if temp < 70°F | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Clean by dry vacuum after dry air equipment is in service • Protect lube oil with dispersion / stabilization chemicals |
| <p>FD Fan</p> <ul style="list-style-type: none"> • Maintain and operate lube oil system weekly • Rotate fan 1 ¼ turn by hand weekly • Maintain and operate hydraulic system weekly • Stroke fan blades hydraulically weekly • May require heat or continuous operating if temp < 70°F | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Clean by dry vacuum after dry air equipment is in service • Protect lube oil with dispersion / stabilization chemicals |
| <p>Sump pumps</p> <ul style="list-style-type: none"> • Maintain and operate as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed | |
| <p>Drag chain and surge tank</p> <ul style="list-style-type: none"> • Maintain and operate drag chain with drive motor monthly • Maintain and operate hydraulic system monthly • Rotate surge tank recirc pumps 1 ¼ turn by hand monthly • Rotate pyrite sluice pumps 1 ¼ turn by hand monthly • Rotate economizer pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Drag chain to remain in place under boiler • Clean, flush, drain and winterize drag chain and equipment • Protect drag chain with corrosion inhibitors • Prevent bird entry by closing all access openings • Clean, flush, drain and winterize drag chain and equipment • Clean, flush, drain and winterize surge tank and equipment • Protect surge tank with corrosion inhibitors • Clean, flush, drain and winterize pH control system |
| <p>Pulverizers</p> <ul style="list-style-type: none"> • Maintain and operate lube oil system weekly • Rotate table 1 ¼ turn with turning gear monthly | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Clean by dry vacuum after dry air equipment is in service • Protect lube oil with dispersion / stabilization chemicals |
| <p>CO2 System</p> <ul style="list-style-type: none"> • Maintain and operate for fire protection | |

In-Service

Lay-up Preparation

| | |
|---|---|
| <p>Diesel generator</p> <ul style="list-style-type: none"> Maintain and operate per current OPL Maintain and test batteries per current procedure | <ul style="list-style-type: none"> Protect diesel fuel by adding stabilizer to storage tank |
| <p>Primary air preheater</p> <ul style="list-style-type: none"> Maintain and operate lube oil system weekly Rotate baskets 1 ¼ turn with air drive weekly | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service Protect lube oil with dispersion / stabilization chemicals |
| <p>Secondary air preheater</p> <ul style="list-style-type: none"> Maintain and operate lube oil system weekly Rotate baskets 1 ¼ turn with air drive weekly | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service Protect lube oil with dispersion / stabilization chemicals |
| <p>Burners / Windbox</p> <ul style="list-style-type: none"> Move burner hoods by hand monthly Rotate tertiary fans 1 ¼ turn by hand monthly Rotate scanner blowers 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| <p>Tripper cars and bunkers</p> <ul style="list-style-type: none"> Rotate tripper car gearbox monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize equipment Park both tripper cars over #3 bunker Protect hoppers with corrosion inhibitors Protect idler bearings by thoroughly lubricating Protect lube oil with dispersion / stabilization chemicals |
| <p>Sootblowers</p> <ul style="list-style-type: none"> Rotate sootblower gearbox monthly | <ul style="list-style-type: none"> Clean and remove fuel residue from all surfaces Protect steam piping by removing insulation and painting Protect lube oil with dispersion / stabilization chemicals Protect electrical cabinets with corrosion inhibitors |
| <p>Waterwalls, superheat, reheat and economizer, fire side</p> <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Deslag on-line to thoroughly remove slag Install airtight seal at knees Protect with dehumidification before dew point is reached |
| <p>Waterwalls, superheat, reheat and economizer, water side</p> <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Open all vents and drains @ 400°F to boil water from tubes Protect with dehumidification before dew point is reached |

In-Service

Lay-up Preparation

| | |
|---|--|
| Deaerator and storage tank, CH-J-5 <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Open all vents and drains @ 400°F to boil water from vessel Protect with dehumidification before dew point is reached |
| Drum <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Open all vents and drains @ 400°F to boil water from vessel Protect with dehumidification before dew point is reached |
| Penthouse <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration Rotate pressurization fans 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| Dead air spaces <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| Boiler Building <ul style="list-style-type: none"> Maintain and operate fire protection system above freezing | <ul style="list-style-type: none"> Construct enclosure to protect fire water headers Clean by dry vacuum all fuel residue from the boiler building |
| Ignition oil tanks <ul style="list-style-type: none"> Maintain, inspect and drain as needed storm water in berm | <ul style="list-style-type: none"> Drain fuel oil to lowest level possible Protect tank by leaving small amount of fuel oil in tank Protect fuel oil with dispersion / stabilization chemicals |
| Ignition oil pumps <ul style="list-style-type: none"> Rotate pumps 1 ¼ turns by hand monthly | <ul style="list-style-type: none"> Clean, flush, drain and winterize pumps and piping Protect pumps in place with corrosion inhibitors Protect lube oil with dispersion / stabilization chemicals |
| Ignition oil fire protection foam system <ul style="list-style-type: none"> Maintain and operate foam system | |

SCR

| | |
|---|--|
| Reactor and ductwork <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| Catalyst | |

In-Service

Lay-up Preparation

| | |
|--|---|
| <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| <p>Sootblowers</p> <ul style="list-style-type: none"> Rotate gearbox 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Clean all fuel residue from all surfaces Protect lube oil with dispersion / stabilization chemicals Protect electrical cabinets with corrosion inhibitors |
| <p>Dilution air blowers</p> <ul style="list-style-type: none"> Rotate blowers 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> Protect blowers in place with corrosion inhibitors Protect duct work with corrosion inhibitors Protect electrical cabinets with corrosion inhibitors |
| <p>Ammonia</p> <ul style="list-style-type: none"> Maintain residual pressure to prevent moisture infiltration | <ul style="list-style-type: none"> Evacuate all liquid ammonia Protect pumps in place with corrosion inhibitors |

Electrostatic Precipitator

| | |
|--|---|
| <p>Reactor and ductwork</p> <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service |
| <p>Plates, wires and rappers</p> <ul style="list-style-type: none"> Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> Protect with dehumidification before dew point is reached Clean by dry vacuum after dry air equipment is in service Protect rappers with corrosion inhibitors |
| <p>Precipitator area sump pumps</p> <ul style="list-style-type: none"> Clean all flyash residue from sump and surrounding area Maintain and operate as needed to control level, verify weekly Maintain and operate seal water and associated heat trace Isolate sump pump and seal water unless needed | |
| <p>Flyash transport system</p> <ul style="list-style-type: none"> Rotate blowers 1 ¼ turn by hand weekly | <ul style="list-style-type: none"> Clean all combustion residue from all internal surfaces Protect blowers in place with corrosion inhibitors Protect lube oil with dispersion / stabilization chemicals |

In-Service

Lay-up Preparation

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|--|---|
| <p>Flyash silo and vent fans</p> <ul style="list-style-type: none"> • Rotate vent fans 1 ¼ turn by hand monthly • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean all combustion residue from all internal surfaces • Protect fans in place with corrosion inhibitors • Prevent bird entry by closing all access openings |
|--|---|

Scrubber

| | |
|---|---|
| <p>ID Fan</p> <ul style="list-style-type: none"> • Maintain and operate lube oil system weekly • Rotate fan 1 ¼ turn with turning gear weekly • Maintain and operate louver dampers weekly • May require heat or continuous operating if temp < 70°F • Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • Protect lube oil with dispersion / stabilization chemicals • Clean by dry vacuum after dry air equipment is in service |
| <p>Inlet duct</p> <ul style="list-style-type: none"> • Close and seal inlet guillotine dampers • Maintain effective sealing to minimize moisture infiltration | <ul style="list-style-type: none"> • Protect with dehumidification before dew point is reached • High pressure wash and rinse until discharge water is > 6pH • Passivate all internal surfaces with a 5% solution of soda ash • Dry out with heaters and seal access openings • Protect seal air blowers in place with corrosion inhibitors |
| <p>Reactor vessels</p> <ul style="list-style-type: none"> • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize modules and piping • Lower doors open/covered by screens, access to agitators • Close all other access openings |
| <p>Outlet duct</p> <ul style="list-style-type: none"> • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize outlet duct and drain piping • Drains to remain open to allow moisture to escape • Close all other access openings • Protect seal air blowers in place with corrosion inhibitors |
| <p>Stack</p> <ul style="list-style-type: none"> • Rotate pressurization fans 1 ¼ turn by hand monthly • Stroke louver damper by hand monthly • Maintain and operate sump pump as needed, verify weekly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize stack liner and drain piping • Protect pressurization fans in place with corrosion inhibitors • Protect louver dampers in place with corrosion inhibitors |

In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed • Maintain access doors closed to eliminate bird entry | |
| <p>Slurry circulation pumps</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly • Maintain doors closed to eliminate bird entry to pump houses | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps and piping • Protect bearing cartridges by thoroughly lubricating • Release belt tension and apply corrosion inhibitors to drives |
| <p>Agitators</p> <ul style="list-style-type: none"> • Rotate agitator impeller 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize agitators • Protect lubricant with dispersion / stabilization chemicals • Release belt tension and apply corrosion inhibitors to drives |
| <p>Blowdown</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly • Maintain sump level with a portable sump pump | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps • Clean all slurry accumulations from all trenches and sumps • Protect bearing cartridges by thoroughly lubricating • Release belt tension and apply corrosion inhibitors to drives |
| <p>Thickeners</p> <ul style="list-style-type: none"> • Rotate rake 1 ¼ turn with drive motor monthly • Maintain and operate sump pumps as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> • Clean, flush, drain and winterize thickeners • Clean all slurry accumulations from sump and trenches • Protect support bearing by thoroughly lubricating • Protect lubricant with dispersion / stabilization chemicals • Remove pump suction to allow rainwater to drain to sump |
| <p>Underflow</p> <ul style="list-style-type: none"> • Rotate underflow pumps 1 ¼ turn by hand monthly • Maintain and operate sump pumps as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize underflow pumps and piping • Protect gearbox oil with dispersion / stabilization chemicals • Prevent bird entry by closing all access openings |

Ballmill area

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| Ballmill | |
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In-Service

Lay-up Preparation

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| <ul style="list-style-type: none"> • Rotate ballmill 1 ¼ turn with drive motor weekly • Maintain and operate jacking and lube oil pumps weekly | <ul style="list-style-type: none"> • Build containment area and drop ball charge on floor • Remove, sort and drum ball charge or sell to supplier • Clean, flush, drain and winterize ball mills • Protect lubricant with dispersion / stabilization chemicals |
| <p>Product sump and pumps</p> <ul style="list-style-type: none"> • Rotate sump pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize sumps and pumps • Protect bearing cartridges by thoroughly lubricating • Release belt tension and apply corrosion inhibitors to drives |
| <p>Ballmill building</p> <ul style="list-style-type: none"> • Maintain and operate floor sumps as needed, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize building • Prevent bird entry by closing all access openings |
| <p>Ballmill building electrical rooms</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters | <ul style="list-style-type: none"> • Protect electrical cabinets with corrosion inhibitors |
| <p>Limestone silo</p> <ul style="list-style-type: none"> • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean all limestone from silo interior • Clean all limestone from the equipment level and ground floor • Protect conveyor idler bearings by thoroughly lubricating • Prevent bird entry by closing all access openings |
| <p>Limestone prep building</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean, flush, drain and winterize sumps and pumps • Protect electrical cabinets with corrosion inhibitors • Prevent bird entry by closing all access openings |

CSI

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|---|--|
| <p>Vacuum filter drums</p> <ul style="list-style-type: none"> • Rotate drums 1 ¼ turn with drive motor monthly • Rotate agitator with drive motor monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize drums and piping • Vats shall be left empty • Protect lube oil with dispersion / stabilization chemicals • Remove and dispose of filter cloth and attachment rope |
|---|--|

In-Service

Lay-up Preparation

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| <p>Surge tanks and filter feed pumps</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean, flush, drain and winterize pumps and piping • Tanks shall be left empty • Protect bearing cartridges by thoroughly lubricating • Release belt tension and apply corrosion inhibitors to drives |
| <p>Filtrate return pumps</p> <ul style="list-style-type: none"> • Rotate pumps 1 ¼ turn by hand monthly | <ul style="list-style-type: none"> • Clean all slurry residue from all surfaces • Sump shall be left empty • Release belt tension and apply corrosion inhibitors to drives |
| <p>Solid waste area sump pumps</p> <ul style="list-style-type: none"> • Maintain and operate as needed to control level, verify weekly • Maintain and operate seal water and associated heat trace • Isolate sump pump and seal water unless needed | <ul style="list-style-type: none"> • Clean all FGD residue from sump and surrounding area |
| <p>Conveyors</p> <ul style="list-style-type: none"> • Maintain and operate conveyor monthly | <ul style="list-style-type: none"> • Clean slurry from all surfaces • Protect idler bearings by thoroughly lubricating • Place stackout conveyor in the lowest possible position • Secure stackout conveyor to prevent movement during storms |
| <p>Building</p> <ul style="list-style-type: none"> • Maintain and operate switchgear heaters • Maintain access doors closed to eliminate bird entry | <ul style="list-style-type: none"> • Clean slurry from all surfaces • Floor drains and sumps shall be left empty • Prevent bird entry by closing all access openings • Protect electrical cabinets with corrosion inhibitors |

Landfill

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|---|---|
| <p>Landfill cover</p> <ul style="list-style-type: none"> • Maintain landfill mowing, permit requirement • Maintain landfill erosion control, permit requirement | <ul style="list-style-type: none"> • Place temporary cover on all active areas of landfill |
| <p>Landfill sample wells</p> <ul style="list-style-type: none"> • Continue to perform required environmental sampling | |
| <p>Landfill runoff pond (KPDES 002)</p> | |

In-Service

Lay-up Preparation

| | |
|--|--|
| <ul style="list-style-type: none"> • Maintain and operate as needed to control level • Perform required environmental sampling | |
|--|--|

Buildings and Grounds

| | |
|---|--|
| <p>Site Security & Communication</p> <ul style="list-style-type: none"> • Maintain Gai-tronics for emergency alarms • Maintain radios/repeaters for personnel communication • Maintain and operate underground fire protection system • Maintain and operate all plant lighting for safety and security • Maintain and operate stack strobe lights • Maintain and operate all entrance gates for security • Maintain and operate all security cameras | <ul style="list-style-type: none"> • Security patrols to be performed by operational personnel • Winterize above ground fire protection system or lay-up dry |
| <p>Buildings and Facilities</p> <ul style="list-style-type: none"> • Maintain and inspect cathodic protection, 3 year inspection • Maintain and inspect radiation sources, twice a year inventory • Maintain and inspect fire extinguishers • Maintain and inspect eye wash stations • Maintain and inspect outlying restroom facilities • Maintain and inspect elevators, annual certification required • Maintain and operate all outlying HVAC systems • Maintain and operate all building sprinkler systems • Maintain current mowing and weed control | |
| <p>Sewage treatment plant (KPDES 007)</p> <ul style="list-style-type: none"> • Waste water operator licensed personnel required • Maintain and operate sewage treatment plant, verify weekly • Maintain and operate sewage lift stations, verify weekly • Perform required environmental sampling | |
| <p>Plant Vehicles</p> <ul style="list-style-type: none"> • Maintain water truck to transport water | <ul style="list-style-type: none"> • Heavy equipment transferred to other stations • Emergency response vehicle to Green Station • Majority of plant vehicles transferred to other stations |

Staffing

| | |
|---|--|
| <p>Layup Staffing</p> <ul style="list-style-type: none">• 2 Supervisors• 5 Control Room Operators• 5 Auxiliary Operators• 1 Laboratory Operator• 1 Mechanic• 1 Electrician• 1 Instrument Technician | |
|---|--|

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199

Response to the Office of the Attorney General's
Initial Request for Information
dated August 19, 2013

September 3, 2013

- 1 **Item 105)** *If Big Rivers decides to idle the Wilson plant, which carries the lowest*
2 *variable costs on Big Rivers' system, describe how this will change MISO's economic*
3 *dispatch of Big Rivers' generation units.*
- 4 *a. Does Big Rivers agree that if Wilson is idled, its sales to MISO will be*
5 *reduced? If not, why not?*
- 6 *b. Provide an analysis of Big Rivers' expected sales to MISO through all of the*
7 *forecasted test period, both with Wilson being idled, and with Wilson not*
8 *being idled.*
- 9 *c. In the event Big Rivers idles the Wilson plant, please confirm that the plant*
10 *will remain in the company's rate base and that ratepayers will continue to*
11 *pay for various costs associated with the plant.*
- 12 *d. Please confirm that the budget included in the filing, which forms the basis*
13 *for Big Rivers' fully forecasted test period assumes Wilson is idled.*
- 14 *e. Please provide a summary depicting the expected net total projected savings*
15 *of shuttering the plant, for as long of a time period as such projections have*
16 *been made.*

BIG RIVERS ELECTRIC CORPORATION

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1 *f. Please provide the specific amount of cost that Big Rivers' ratepayers will*
2 *bear for keeping the Wilson plant in the company's rate base in the event*
3 *the plant is idled.*

4 **Response)**

5 a. Agreed.

6 b. Big Rivers sells all of its generation into and purchases all of its load from
7 MISO. Big Rivers' forecasted generation sold to MISO with Wilson idled
8 during the forecasted test period is [REDACTED] MWh. Big Rivers' forecasted
9 generation sold to MISO with Wilson operating during forecasted test period
10 is [REDACTED] MWh.

11 c. Confirmed.

12 d. Confirmed.

13 e. Big Rivers objects to the use of the unduly vague and ambiguous term
14 "shuttering." Big Rivers further states that it does not intend to retire Wilson
15 Station. Notwithstanding these objections, and without waiving them, Big
16 Rivers states that it intends to idle Wilson Station. Big Rivers' analysis
17 estimates that idling the Wilson Station will save its Members a total of
18 approximately \$73 Million in fixed costs during the 2014-2016 timeframe.

BIG RIVERS ELECTRIC CORPORATION
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1 f. As a result of having Wilson remain in the rate base, Big Rivers' Members
2 will continue to pay the interest, depreciation, insurance, and property taxes
3 on the Wilson Station, as well as the cost of maintaining the unit in an idled
4 state.

| | |
|--------------------------|-------------------|
| Depreciation | 20,177,365 |
| Property Tax | 1,097,363 |
| Property Insurance | 1,252,679 |
| Interest Expense | 20,981,499 |
| Fixed Department Expense | ██████████ |
| Labor/Labor Overhead | 1,636,619 |
| Total for FTP | ██████████ |

5

6

7 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

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- 1 **Item 106)** *If Big Rivers decides to idle the Coleman plant upon completion of the SSR*
2 *with MISO, describe how this will change MISO's economic dispatch of Big Rivers'*
3 *generation units.*
- 4 **a.** *Does Big Rivers agree that if Coleman is idled, its sales to MISO will be*
5 *reduced? If not, why not?*
- 6 **b.** *Provide an analysis of Big Rivers' expected sales to MISO through all of the*
7 *forecasted test period, both with Coleman being idled, and with Coleman not*
8 *being idled.*
- 9 **c.** *In the event Big Rivers idles the Coleman plant, please confirm that the*
10 *plant will remain in the company's rate base and that ratepayers will*
11 *continue to pay for various costs associated with the plant.*
- 12 **d.** *Please confirm that the budget included in the filing, which forms the basis*
13 *for Big Rivers' fully forecasted test period assumes Coleman is idled.*
- 14 **e.** *Please provide a summary depicting the expected net total projected savings*
15 *of shuttering the plant, for as long of a time period as such projections have*
16 *been made.*

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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**Response to the Office of the Attorney General's
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1 *f. Please provide the specific amount of cost that Big Rivers' ratepayers will*
2 *bear for keeping the Coleman plant in the company's rate base in the event*
3 *the plant is idled.*

4
5 **Response)**

6 a. Agreed.

7 b. Big Rivers sells all of its generation into and purchases all of its load from
8 MISO. Big Rivers' forecasted generation sold to MISO with Coleman idled
9 during the forecasted test period is ██████████ MWh. Big Rivers' forecasted
10 generation sold to MISO with Coleman operating during forecasted test period
11 is ██████████ MWh.

12 c. Confirmed.

13 d. Coleman is assumed idled starting on February 1, 2014, with related
14 headcount reductions as of May 1, 2014. Any non-recurring costs for
15 Coleman in the fully forecasted test period (labor and non-labor) are included
16 in a pro forma adjustment to reduce the revenue requirement. Please refer to
17 Exhibit Wolfram-2 from the Direct Testimony of Mr. John Wolfram for all
18 pro forma adjustments.

BIG RIVERS ELECTRIC CORPORATION
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September 3, 2013

1 e. Big Rivers objects to the use of the unduly vague and ambiguous term
2 "shuttering." Big Rivers further states that it does not intend to retire
3 Coleman Station. Notwithstanding these objections, and without waiving
4 them, Big Rivers states that it intends to idle Coleman Station. Big Rivers'
5 analysis estimates that idling the Coleman Station will save its Members a
6 total of approximately \$78 Million in fixed costs during the 2014-2016
7 timeframe.

8 f. As a result of remaining in the rate base, Big Rivers' Members will continue
9 to pay the interest, depreciation, insurance, and property taxes on the Coleman
10 Station, as well as the cost of maintaining the unit in an idled state.

11

| | | |
|----------------------------|-----------|-------------------|
| Depreciation | \$ | 6,466,191 |
| Property Tax | | 476,341 |
| Property Insurance | | 732,474 |
| Interest Expense | | 6,786,057 |
| **Fixed Department Expense | | [REDACTED] |
| ** Labor/Labor Overhead | | 1,500,832 |
| Total for FTP | \$ | [REDACTED] |

12

13

**Pro Forma adjustments have been applied.

14

BIG RIVERS ELECTRIC CORPORATION
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1 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL
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1 **Item 107)** *Please provide a copy of any and all economic analysis(es) upon which Big*
2 *Rivers bases or will base its decision to close the Wilson generation unit, and/or any other*
3 *generation unit(s).*

4 *a. Explain fully why idling Wilson is better and more cost-effective than selling it.*

5

6 **Response)** Please see Big Rivers' response to AG 1-108(a) in Case No 2012-00535.

7

8 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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**Response to the Office of the Attorney General's
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September 3, 2013

1 **Item 108)** *Has MISO performed any studies upon which Big Rivers will or may rely in*
2 *making any decision regarding the idling of any particular plant? If so, please provide a*
3 *copy of any and all such studies, and any other documents related thereto.*

4
5 **Response)** On December 19, 2012, Big Rivers submitted to MISO an Attachment Y-2,
6 Request for Non-Binding Study Regarding Potential SSR Status for Big Rivers' Coleman
7 Station. The confidential Y-2 report titled Attachment Y-2 Study Report May 2, 2013 is
8 attached. On May 24, 2013 Big Rivers submitted to MISO an Attachment Y notice for the
9 suspension of Coleman Units 1, 2 & 3. A redacted MISO Attachment Y Study Report titled
10 Attachment Y Study Report July 18, 2013 Draft was provided in response to KIUC 1-46(e).

11 On December 28, 2012, MISO received an Attachment Y-2 request for Non-Binding
12 Study Regarding Potential SSR Status for Big Rivers' Wilson Unit 1. The confidential Y-2
13 report titled Attachment Y-2 Study Report Final June 12, 2013 is attached. Big Rivers has
14 requested additional Y-2 studies for suspensions of Wilson Unit 1 and Green Units 1 & 2.
15 These studies are on-going.

16

17 **Witness)** Robert W. Berry

**CONFIDENTIAL
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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September 3, 2013

1 **Item 109)** *Reference the Williams Testimony, p. 14, l. 12, why does the forecast*
2 *assume that severance costs for Coleman layup will begin in February 2014 when the*
3 *Century Agreement assumes Coleman operation until after May of 2014? Please update*
4 *forecast and affected numbers to reflect the Century Agreement.*

5

6 **Response)** Please see Big Rivers' response to PSC 2-25.

7

8 **Witness)** Jeffrey R. Williams

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1 **Item 110)** *Provide a cost-benefit analysis which illustrates the total of all costs*
2 *associated with idling generation plant(s) (including but not limited to stranded costs),*
3 *contrasted with the costs of leaving the plant(s) running.*

4

5 **Response)** Big Rivers objects to the characterization of the costs described here as
6 “stranded costs.” Notwithstanding this objection, but without waiving it, please see Big
7 Rivers’ response to KIUC 1-67.

8

9 **Witness)** Robert W. Berry

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1 **Item 111)** *Please provide all Big Rivers correspondence to RUS that includes the*
2 *subject of “scheduled major inspections and maintenance per prudent utility operations”*
3 *since January 1, 2012.*

4

5 **Response)** Please refer to Big Rivers' responses to AG 1-142, PSC 2-15, and PSC 2-30 in
6 Case No. 2012-00535.

7

8 **Witness)** Billie J. Richert

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1 **Item 112)** *Please provide assumptions, data, and summary of fuel procurement*
2 *contracts Big Rivers provided to ACES in development of the production cost modeling*
3 *used as an input to the Big Rivers Financial forecast used in this case. Information should*
4 *include spreadsheets, etc., in electronic format compatible with Microsoft Office programs.*

5

6 **Response)** Please see Big Rivers' response and attachments to KIUC 1-12(b).

7

8 **Witness)** Robert W. Berry

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1 **Item 113)** *Please provide production cost model output data received from ACES for*
2 *inclusions in the Big Rivers financial forecast used in this case. Information should*
3 *include input and output spreadsheets, etc. in electronic format compatible with Microsoft*
4 *Office programs.*

5

6 **Response)** Please see Big Rivers' response to PSC 2-14.

7

8 **Witness)** Robert W. Berry

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1 **Item 114)** *Please provide any changes to information provided to ACES or production*
2 *cost model outputs from implementation of the Load Concentration Mitigation plan.*

3

4 **Response)** Please see Big Rivers' response to KIUC 1-12(b,d-g) for production cost
5 model inputs. Fuel forecasts, planned outage schedules, and load forecast have been changed
6 due to implementation of the Load Concentration Mitigation plan. Please see Big Rivers'
7 response to AG 1-98 listing the PCM runs with many of those runs being performed due to
8 implementation of the Load Concentration Mitigation plan.

9

10 **Witness)** Robert W. Berry

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1 **Item 115)** *Please provide details of the emission fee budget included in the Big Rivers*
2 *financial forecast used in this case. Information should include spreadsheets, etc. in*
3 *electronic format compatible with Microsoft Office programs.*

4

5 **Response)** Please see Big Rivers' response to KIUC 1-61 for details of the emission fee
6 budget calculations.

7

8 **Witness)** Robert W. Berry

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1 **Item 116)** *Given that the U.S. Army Corps of Engineers repair work to Wolf Creek*
2 *dam is being completed ahead of schedule, has Big Rivers performed any analyses or*
3 *studies regarding:*

4 a. *when the Southeastern Power Administration (SEPA)'s provision of 178*
5 *MW of power to Big Rivers will be restored; and*

6 b. *if so, whether that could change Big Rivers' order of economic dispatch? If*
7 *your response to either (a) and/or (b) above is "yes," please provide copies*
8 *of any and all such analyses/studies, and any and all other documents*
9 *associated therewith.*

10

11 **Response)**

12 a. Big Rivers objects to this request as no entity can reasonably perform analyses
13 or studies that can predict with any certainty SEPA's internal decision making
14 processes for determining when to end the SEPA contract Force Majeure.
15 Notwithstanding this objection, and without waiving the same, Big Rivers
16 states as follows. In April 2013 a Big Rivers employee attended a meeting
17 between SEPA, the U.S Army Corps of Engineers ("USACE") and SEPA
18 customers. At that meeting USACE confirmed that Wolf Creek dam repairs

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1 were ahead of schedule. SEPA indicated that the Force Majeure was
2 expected, but not guaranteed, to terminate no later than the end of 2014.
3 b. As a member of MISO, Big Rivers does not determine the order of dispatch of
4 its units. MISO dispatches generation to optimize system reliability and
5 economics. However, Big Rivers offers the following. Upon exiting the
6 Force Majeure, Big Rivers will schedule SEPA within the limits set forth in
7 the SEPA contract while optimizing Member value of the SEPA resource.

8
9 **Witness)** Robert W. Berry

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1 **Item 117)** *Please refer to page 33 of the PSC Order in Case No. 2007-00455 dated*
2 *March 6, 2009, where the Commission finds “all necessary actions to correct the*
3 *deficiencies are scheduled to be performed as part of Big Rivers’ 2009 – 2011 Production*
4 *Work Plan.” Provide documents which show each of the deficiencies, and the date at*
5 *which they were corrected by Big Rivers per the Production Work Plan.*

6
7 **Response)** Big Rivers takes very seriously its obligation to maintain its assets in
8 accordance with prudent utility practice. The Big Rivers 2009 – 2011 Production Work Plan
9 provides direction of activities related to inspections and maintenance on its assets. Big
10 Rivers has selectively deferred certain inspection and maintenance activities recommended
11 by experienced plant staff but never has Big Rivers deferred maintenance activities that
12 would knowingly put assets at risk or create safety concerns. When Big Rivers resumed
13 control of the generating units in 2009 no major equipment deficiencies were identified, and
14 since 2009 the units have consistently performed in the top quartile of its peer group in
15 Equivalent Forced Outage Rate (EFOR), Equivalent Availability Factor (EAF) and Net
16 Capacity Factor (NCF). To further support these facts, the Coleman Station has received the
17 Navigant Operational Excellence Award for two consecutive years, (2012 & 2013).

18 Please also see Big Rivers’ response to AG 1-203 in Case No. 2012-00535.

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1

2 **Witness)** Robert W. Berry

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- 1 **Item 118)** *Identify each of these deficiencies which were not corrected within the 2009*
2 *– 2011 Production Work Plan (if any).*
3
4 **Response)** Please see Big Rivers' response to AG 1-117.
5
6 **Witness)** Robert W. Berry

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1 **Item 119)** *Referencing Exhibit Berry 2, please provide a detailed explanation of the*
2 *necessity for each of the 2014, 2015 and 2016 capital expenditure items for Wilson,*
3 *including in your response why these expenditures are planned or needed if Big Rivers*
4 *plans to idle Wilson beginning February 2014.*

5
6 **Response)** When the Wilson Station 2013-2016 capital plan was developed, there was
7 some significant uncertainty surrounding the timing of the lay-up and restoration, and Big
8 Rivers deemed it prudent to include some capital funding for Wilson until MISO could
9 determine if it was going to be possible to idle the unit, and for how long. Big Rivers filed an
10 Attachment Y2 request with MISO for a Non-Binding Study Regarding Potential SSR to
11 determine the reliability impact of the suspension of Wilson Unit 1 from August 20, 2013 to
12 January 1, 2015, with Century's Hawesville smelter and the Coleman Station both continuing
13 to operate. The study results indicated that during the suspension period no potential
14 transmission reliability issues were identified to require the need for a System Support
15 Resource ("SSR") contract. However, beyond the requested suspension period, potential
16 reliability issues were identified starting in 2017 that suggest the unit will be needed in the
17 future.

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1 Big Rivers has filed another Attachment Y2 request with MISO to determine if the
2 Wilson Unit can be idled with Century's Hawesville smelter continuing to operate and the
3 Coleman Station idled. This study has not yet been completed so there is still some
4 uncertainty regarding the timing of the lay-up and restoration of the Wilson Unit. Big Rivers
5 still believes it prudent to budget some capital funding for Wilson Station until MISO
6 determines if it is going to be possible to idle the unit, and for how long.

7

8 **Witness)** Robert W. Berry

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1 **Item 120)** *Referencing Exhibit Berry 2, please describe in detail the units and work*
2 *involved for the HAPS/MATS capital construction in 2014.*

3

4 **Response)** During the year 2014, Big Rivers plans to install activated carbon injection
5 equipment, dry sorbent injection equipment, and continuous emission monitoring equipment,
6 in order to verify MATS compliance, on its Green Station Units 1 and 2. Also in 2014, Big
7 Rivers will coordinate installation of continuous emission monitoring equipment for HMP&L
8 on its Station Two Units 1 and 2 in order to verify MATS compliance.

9

10 **Witness)** Robert W. Berry

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- 1 **Item 121)** *Referring to BREC's response to PSC 1-12:*
- 2 *a. Please provide the last two long-range models and studies Big Rivers has*
- 3 *performed or participated in to meet SERC regional long-term study*
- 4 *objectives.*
- 5 *b. Regarding Big Rivers' internal long-term transmission assessment prepared*
- 6 *to ensure compliance with NERC standards using the SERC-developed*
- 7 *models:*
- 8 *i. Please provide copies of all audits, reports and studies used as a*
- 9 *basis of Big Rivers' last two long-term transmission assessments.*
- 10 *ii. Please provide the results of the last two Big Rivers' long-term*
- 11 *transmission assessments.*
- 12 *c. Regarding the last two Big Rivers internal long-range engineering plan:*
- 13 *i. Provide all supporting load flow models and additional studies used*
- 14 *in developing the plans.*
- 15 *d. Regarding the input Big Rivers has into the MISO MTEP:*
- 16 *i. Provide copies of all study and information Big Rivers has provided*
- 17 *into this process.*
- 18

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1 **Response)**

2 a. Approximately 19 participants collectively prepare future year studies to meet
3 SERC regional long-term study objectives. The last two regional long range
4 studies in which Big Rivers participated are the CONFIDENTIAL SERC
5 report entitled "2016 Summer Future Year Study" included as electronic
6 Attachment 1 and the CONFIDENTIAL SERC report entitled "2017 Summer
7 Future Year Study" included as electronic Attachment 2. The study models
8 are based on Eastern Interconnection Reliability Assessment Group
9 ("ERAG") Multiregional Modeling Working Group ("MMWG") power flow
10 models. The release and distribution of these confidential models is the
11 responsibility of the MMWG regional coordinators. The SERC Reliability
12 Corporation should be contacted for additional information.

13 b. Big Rivers prepares internal long-term assessments to ensure compliance with
14 NERC TPL standards. The assessments are primarily based on studies
15 performed by Big Rivers. The assessments also include a summary of SERC
16 and MISO studies. The information and study results on which the last two
17 assessments were based are contained in the CONFIDENTIAL report entitled
18 "2022 Summer Transmission System Assessment" included as electronic

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1 Attachment 3 and in the CONFIDENTIAL report entitled "2015 Long Term
2 Summer Transmission System Assessment" included as electronic
3 Attachment 4.

4 c. The CONFIDENTIAL December 2009 report entitled "Long Range
5 Engineering Plan" for the period 2012-2024 is included as electronic
6 Attachment 5. The CONFIDENTIAL August 2002 report entitled
7 "Transmission System Long Range Plan" for the period 2006-2017 is
8 included as electronic Attachment 6. The reports contain the information and
9 study results used in developing the plans. The study models used by Big
10 Rivers in running these internal planning studies are based on additional
11 Eastern Interconnection Reliability Assessment Group ("ERAG") Multi-
12 regional Modeling Working Group ("MMWG") power flow models similar to
13 those identified in Big Rivers' response to subpart (a). Again, the release and
14 distribution of these confidential models is the responsibility of the MMWG
15 regional coordinators.

16 d. Big Rivers has provided input to the MTEP11 and MTEP12 study process
17 primarily through a review of MISO study results. This input is reflected in
18 the MISO MTEP study reports. Big Rivers also provided direct input by

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1 updating the confidential MISO project database. The Big Rivers projects
2 included in the MISO database are shown in CONFIDENTIAL electronic
3 Attachment 7. In October of 2011, a MISO out-of-cycle study was requested
4 by Big Rivers. The purpose of this confidential study was to evaluate the
5 potential addition of an industrial load. The confidential information provided
6 by Big Rivers to MISO for this out-of-cycle study is shown in
7 CONFIDENTIAL electronic Attachment 8. The Big Rivers document entitled
8 "Transmission Planning Criteria and Guidelines" document was provided to
9 MISO as part of the MTEP process specifically applied to the Big Rivers
10 system. This document is attached electronically as CONFIDENTIAL
11 Attachment 9.

12

13 **Witness)** David G. Crockett

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

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1 **Item 122)** *Referring to BREC's response to PSC 1-17:*

2 *a. Please explain why the costs and details of the construction project the 6th*
3 *line down from the top of page 5 of 60 is considered confidential.*

4 *b. Please review other confidential rows and confirm they are also*
5 *appropriately classified.*

6

7 **Response)**

8 a. The costs and details of that project are confidential because, as Big Rivers'
9 response to PSC 1-17 indicates, that project was in progress. Please also see
10 Big Rivers' petition for confidential treatment accompanying Big Rivers'
11 responses to the Commission Staff's First Request for Information.

12 b. Confirmed.

13

14 **Witness)** Robert W. Berry

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1 **Item 123)** *Reference Mr. Berry's testimony at p. 14, l. 10-12, where he states that the*
2 *fully forecasted test year assumes that Wilson and Coleman Stations will be idled as a*
3 *result of the Century and Alcan terminations. Address the following:*

4 **a.** *Provide all increases and decreases in revenues, expenses, depreciation*
5 *expense, plant investment, accumulated depreciation, and all other costs*
6 *(expenses and rate base components) related to the idling of the Wilson and*
7 *Coleman stations (show all impacts separately for Wilson and Coleman) by*
8 *account number and account description for actual FY 2012, base period*
9 *(show actual and forecasted amounts separately), forecasted test period, and*
10 *2016 forecasted period.*

11 **b.** *Identify all overlap of revenues and costs related to the idling of Wilson in*
12 *the prior rate case, CN 00535 and in the current rate case, CN 00199, and*
13 *show the impact for the base period (provide actual and forecasted amounts*
14 *separately) and the forecasted test period. Provide supporting*
15 *documentation and calculations and explain why this overlap of revenues*
16 *and costs is reasonable and does not represent reflect a double impact of*
17 *this issue in both rate cases.*

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- 1 c. *The forecasted test period in the prior rate case CN 00535 was for the period*
2 *September 1, 2013 through August 31, 2014, and the forecasted period in*
3 *this case is for the period February 1, 2014 (date of Alcan termination)*
4 *through January 28, 2015. There is an overlap of the same seven months of*
5 *February 2013 through August 2013 in the forecasted test periods of these*
6 *two cases. For each month of February 2013 through August 2013 for the*
7 *prior case CN 00535 and the current case CN 00199, show the impact of the*
8 *idling of the Wilson plant by account number and account description for*
9 *each expense and rate base component (including all revenues, expenses,*
10 *depreciation expense, plant investment, accumulated depreciation, and all*
11 *other costs) impacted and included in both cases. Explain the reasons for*
12 *all differences in each cost between these two rate cases for the same*
13 *forecasted test period months.*
- 14 d. *Regarding (c) above, in all cases, explain and quantify the changes in*
15 *inputs, assumptions, and all other changes to the Financial Model that*
16 *caused a change in these amounts and explain why it was necessary to*
17 *change assumptions and inputs to the Financial Model for the same months*
18 *in forecasted test period of prior rate case CN 00535 compared to the*

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1 *current rate case CN 00199. Provide related supporting documentation and*
2 *calculations and citations to all changes in the Financial Model by specific*
3 *field, row, column, tab, and other reference.*

4
5 **Response)** Big Rivers objects that this question is overly broad and unduly burdensome.
6 Notwithstanding this objection, and without waiving it, Big Rivers responds as follows.

- 7 a. For the forecasted periods, Big Rivers does not have a budget with Coleman
8 and Wilson running so there is nothing to compare. For historical periods,
9 actuals are actual; and Big Rivers has not done the type of comparison
10 requested comparing actuals for 2012 (where Coleman and Wilson were not
11 idled) to some set of assumptions with Coleman and Wilson idled.
12 Depreciation expense would only have a minimal change to any new assets
13 that may have been added if plants were operational. Otherwise, depreciation
14 expense does not change depending on whether the plants are idled or not.
- 15 b. The forecast filed in Case No. 2012-00535 assumed the Sebree smelter
16 continued to be on the Big Rivers system and that Big Rivers idled one plant.
17 The forecast filed in this case assumes both the Hawesville and Sebree
18 smelters are not on the Big Rivers system and that Big Rivers idles two plants.

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1 There is no "double impact" or overlap of costs and revenues because Big
2 Rivers does not add the costs and revenues from one forecast on top of the
3 costs and revenues in the other forecast. Instead, the forecast Big Rivers filed
4 in this case supersedes the seven month overlap period with forecast filed in
5 Case No. 2012-00535, and it includes all of Big Rivers' expenses and
6 revenues for the forecasted period.

7 c. Big Rivers did not idle Wilson from February 2013 through August 2013;
8 thus, there is no impact from idling Wilson during this time. Please also see
9 Big Rivers' response to AG 1-86.

10 d. Not applicable.

11

12 **Witness)** Jeffrey R. Williams

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1 **Item 124)** *Reference Mr. Berry's testimony at p. 14, l. 10-12, where he states that the*
2 *fully forecasted test year assumes that Wilson and Coleman Stations will be idled as a*
3 *result of the Century and Alcan terminations. Address the following:*

4 *a. Explain if Big River's calculation for the impacts of idling Wilson and*
5 *Coleman stations represent one year of related impacts on costs or if Big*
6 *River's calculations incorporate impacts for numerous years, and provide*
7 *the impacts of the idling for each year for both Wilson and Coleman. Show*
8 *these costs for the base period (show actual and forecasted amounts*
9 *separately) the forecasted test period, and forecasted 2016.*

10 *b. Explain if Big River's calculation for the impacts of idling Wilson and*
11 *Coleman in the base period and forecasted test period of this rate case*
12 *includes the one-time eventual "re-start" or "start-up costs", and provide*
13 *these amounts by account number (and description of type of cost), provide*
14 *supporting documentation and calculations, and explain why these costs*
15 *should be included in this rate case. Show these costs for the base period*
16 *(show actual and forecasted amounts separately) the forecasted test period,*
17 *and forecasted 2016.*

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1 c. *Provide the "re-start" or "start-up costs" of Wilson and Coleman after they*
2 *have been idled and show these amounts by account number (and*
3 *description of type of cost) for the related year these costs would be*
4 *incurred, and provide supporting documentation and calculations.*

5

6 **Response)**

7 a. Please see the CONFIDENTIAL electronic file labeled "Financial Forecast
8 (2014-2027) 5-16-2013" which was provided in response to PSC 2-14.

9 b. No. The base period and forecasted test period do not include the one-time
10 eventual "start-up costs" because the model predicts the units will restart in
11 2018 and 2019, which is outside of the submitted forecast in this case (2014-
12 2016).

13 c. Please see the CONFIDENTIAL electronic file labeled "Financial Forecast
14 (2014-2027) 5-16-2013" which was provided in response to PSC 2-14.

15

16 **Witness)** Robert W. Berry

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1 **Item 125)** *Reference Mr. Berry's testimony at p. 19, l. 1-9, where he states that Big*
2 *Rivers has included a projection of all charges and credits related to participation in all*
3 *three MISO markets, including administration fees, energy-related revenues and charges,*
4 *transmission revenues and charges, FTR-related revenues and charges, capacity costs, and*
5 *costs which MISO passes on to all market participants. Also, at p. 19, l. 6-9, he states that*
6 *in addition to the energy-related revenues and charges, Big Rivers also included*
7 *\$6,891,119 in net charges and credits for MISO in the forecasted test period. Address the*
8 *following:*

9 *a. Explain in more detail the types of charges and credits described at Mr.*
10 *Berry's testimony, p. 19, lines 1-9, versus those charges described at p. 19, l.*
11 *6-9. Explain if the \$6,861,119 in net charges and credits relates to all costs*
12 *for p. 19, l. 1-9 or only includes the costs for amounts related to lines 6-9. In*
13 *all cases, show all MISO and related charges and credits by account*
14 *number and by type of cost (and provide a description of each cost), and*
15 *provide these amounts for the base period (show actual and forecasted*
16 *amounts separately) and the forecasted test period.*

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- 1 ***b. Regarding (a), provide copies of all contracts and supporting documentation***
2 ***and calculations and reconcile these amounts to the charges and credits***
3 ***included in the base period and forecasted test period.***
- 4 ***c. Regarding (a), explain when the arrangement with MISO will begin and***
5 ***provide copies of all invoices to date and reconcile to contract amounts and***
6 ***amounts included in this rate case.***
- 7 ***d. Identify and explain all MISO costs included in the base period and***
8 ***forecasted test period of the prior rate case CN 00535 by account number***
9 ***and description, and explain why these costs in the current rate case have***
10 ***changed and provide copies of supporting documentation and calculations.***

11

12 **Response)**

- 13 a. Big Rivers objects that this request is overly broad and unduly burdensome
14 insofar as it seeks the requested data by account number, type of cost, and
15 descriptions of costs. Notwithstanding this objection, and without waiving it,
16 Big Rivers states as follows. Berry Testimony, lines 1-6, describes all MISO
17 charges and credits. Berry Testimony, lines 6-9, differentiates the total MISO
18 charges and credits discussed above into two categories—those that are

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1 captured in the production cost model runs performed by ACES, as well as
2 those that are budgeted outside of the production cost model. Please see the
3 attached electronic documents provided with a petition for confidential
4 treatment.

5 b. MISO has available on their website "Agreements Designated under the
6 MISO Tariff". Included on this page are executed contracts with Big Rivers.
7 Please visit
8 <https://www.misoenergy.org/Library/Agreements/Pages/Agreements.aspx> for
9 applicable contracts. Also, please see the MISO Business Practices Manuals
10 available at
11 <https://www.misoenergy.org/Library/BusinessPracticesManuals/Pages/BusinessPracticesManuals.aspx> for a complete description of all MISO charges and
12 credits.
13

14 c. Big Rivers integrated into MISO in December 2010. Please see attached
15 electronic invoices, provided under petition for CONFIDENTIAL treatment,
16 for the base period actuals in this instant case.

17 d. Please see Big Rivers' responses to subparts (a) and (b) above.

18

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1 **Witness)** Robert W. Berry

**ELECTRONIC
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BIG RIVERS ELECTRIC CORPORATION

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1 **Item 126)** *Reference Mr. Berry's testimony at p. 19, l. 10-18, where he states that Big*
2 *Rivers has included projected amounts of \$2,271,665 for ACES fees in the forecasted test*
3 *period. Address the following:*

4 **a.** *Provide the ACES fees paid by Big Rivers in actual FY 2011, actual FY*
5 *2012, base period (provide actual and forecasted amounts separately) in this*
6 *rate case CN 00199 and the prior rate case CN 00535, the forecasted test*
7 *period in this rate case and the prior rate case. Show amounts by account*
8 *number and description of the type of services provided by ACES.*

9 **b.** *Regarding (a) above, explain the reasons for the change in ACES fees for*
10 *the various periods identified and provide copies of related supporting*
11 *documents and calculations, including copies of contracts. Explain how the*
12 *suite of support services such as energy risk management, portfolio*
13 *modeling, contract administration, and regulatory services (as described at*
14 *Berry, p. 19, l. 14-16) has changed from the 2011 period through the*
15 *forecasted test period and quantify the impact of each service provided for*
16 *each year.*

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- 1 c. *Regarding (a) and (b) above, explain how Big Rivers has forecasted these*
2 *costs and provide copies of quotes from ACES and other supporting*
3 *documentation for each type of service to be obtained from ACES.*
- 4 d. *Regarding (a) and (b) above, explain if Big Rivers has competitively bid*
5 *these services with other vendors or explain why this is not feasible.*
- 6 e. *Regarding (a) and (b) above, explain if the services from ACES are reflected*
7 *at the "lower of cost or market" and provide all supporting documentation*
8 *and calculations for this determination (especially since ACES is a related*
9 *party and Big Rivers has a vested interest in ACES). Otherwise, explain*
10 *why the costs of services provided by ACES are determined to be prudent*
11 *and reasonable.*
- 12 f. *Regarding (a) and (b), provide the date when each related service with*
13 *ACES will begin (or when it started), explain why it is necessary for Big*
14 *Rivers to purchase these new services from ACES when the services were*
15 *not required in the past, and provide copies of all cost versus benefit*
16 *analysis prepared by Big Rivers in regard to these ACES services.*
17

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1 **Response)**

2 a. Please see attached worksheet.

3 b. ACES provides a suite of services to its Member-owners. Big Rivers is able
4 to utilize the ACES services provided, as needed, to successfully operate our
5 business. ACES fees are shared among its Members based on a ratio share of
6 total sales. Attached please find a copy of ACES Bilateral Agreement with
7 Big Rivers. This agreement identifies the services provided by ACES, and it
8 is provided pursuant to a petition for confidential treatment.

9 c. Big Rivers forecasted the 2014 ACES fees assuming a 3% escalation over the
10 expected 2013 fee.

11 d. Big Rivers has not solicited competitive bids as it relates to the services
12 provided by ACES. We are not aware of any other companies that provide the
13 breadth of services that ACES provides. As a result, we do not have a
14 comparable entity with which to discuss providing all of these services. In
15 other words, our ownership of ACES provides us access to a suite of services
16 that, collectively, are not available from any other single entity. ACES service
17 offerings are unique in that they act as our agent and they do not realize any
18 economic gain or loss as a result of the services they provide to us. Because of

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1 this agency relationship, and our ability to direct the company's actions due to
2 our ownership, our interests are aligned with ACES' interests. As an owner of
3 ACES, they are providing us services at their cost. Because ACES provides
4 services to a significant number of similar entities, including 20 other owners,
5 they have created a substantial advantage of economies of scale. The
6 economies of scale they enjoy allow their costs to be lower than that of any
7 other entities that might provide these services, and thus ACES services at
8 cost are lower than market.

9 e. See Big Rivers' response to subpart (d), above.

10 f. Big Rivers has been receiving services from ACES for more than 10 years.
11 The services provided by ACES are integral to Big Rivers' business. Big
12 Rivers has chosen to utilize ACES' services in lieu of having staff on hand to
13 provide a number of services which are required to operate our business.
14 Please see the attached Bilateral Agreement for a description of these services.

15

16 **Witness)** Robert W. Berry

**Big Rivers Electric Corporation
Case No. 2013-00199
ACES Fees**

| | 2011 Actual | 2012 Actual | ALCAN - CN 00199 | | | CENTURY - CN 00535 | | |
|----------|------------------------|------------------------|---|---|-----------------------------------|---|---|-----------------------------------|
| | | | <small>Oct, 2012 - Mar, 2013</small> Base Period Actual | <small>Apr, 2013 - Sep, 2013</small> Base Period Forecasted | Forecasted Test Period | <small>May, 2012 - Oct, 2012</small> Base Period Actual | <small>Nov, 2012 - Apr, 2013</small> Base Period Forecasted | Forecasted Test Period |
| 55711000 | 2,003,132 | 2,025,875 | 1,069,083 | 1,099,998 | 2,271,665 | 1,047,345 | 1,082,498 | 2,244,000 |

**Big Rivers Electric Corporation
Case No. 2013-00199
ACES Fees**

CN 00199 Alcan Rate Case

55711000-OTHER EXPENSE-POWER SUPPLY-ARBITRAGE

| | | | base | base | base | base | base | base | | | | | |
|-------------|------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YearTotal |
| ACES FEES | | | | 183,333 | 183,333 | 183,333 | 183,333 | 183,333 | 183,333 | | | | 1,099,998 |
| | | ftp | ftp | ftp | ftp | ftp | ftp | ftp | ftp | ftp | ftp | ftp | |
| | 2014 | 2014 | 2014 | 2014 | 2014 | 2014 | 2014 | 2014 | 2014 | 2014 | 2014 | 2014 | 2014 |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YearTotal |
| ACES FEES | | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,837 | 2,077,167 |
| | | ftp | | | | | | | | | | | |
| | 2015 | 2015 | 2015 | 2015 | 2015 | 2015 | 2015 | 2015 | 2015 | 2015 | 2015 | 2015 | 2015 |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | YearTotal |
| ACES FEES | 194,498 | | | | | | | | | | | | 194,498 |
| BASE | 1,099,998 | Apr, 2013 - Sep, 2013 | | | | | | | | | | | |
| FTP | 2,271,665 | Feb, 2014 - Jan, 2015 | | | | | | | | | | | |

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Attachment to Response for AG 1-126(a)

Witness: Lindsay N. Barron

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**Big Rivers Electric Corporation
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ACES Fees**

**CN 00535 Century Rate Case
55711000-OTHER EXPENSE-POWER SUPPLY-ARBITRAGE**

| | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 |
|-----------|------|------|------|------|------|------|------|------|------|------|---------------------|---------------------|-------------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | base 2012 Nov | base 2012 Dec | 2012 YearTotal |
| ACES FEES | | | | | | | | | | | 174,583 | 174,583 | 349,166 |

| | base 2013 Jan | base 2013 Feb | base 2013 Mar | base 2013 Apr | 2013 May | 2013 Jun | 2013 Jul | 2013 Aug | ftp 2013 Sep | ftp 2013 Oct | ftp 2013 Nov | ftp 2013 Dec | 2014 YearTotal |
|-----------|---------------------|---------------------|---------------------|---------------------|-------------|-------------|-------------|-------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| ACES FEES | 183,333 | 183,333 | 183,333 | 183,333 | | | | | 183,333 | 183,333 | 183,333 | 183,337 | 1,466,668 |

| | ftp 2014 Jan | ftp 2014 Feb | ftp 2014 Mar | ftp 2014 Apr | ftp 2014 May | ftp 2014 Jun | ftp 2014 Jul | ftp 2014 Aug | 2014 Sep | 2014 Oct | 2014 Nov | 2014 Dec | 2014 YearTotal |
|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------|-------------|-------------|-------------|-------------------|
| ACES FEES | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | 188,833 | | | | | 1,510,664 |

BASE 1,082,498 Nov, 2012 - Apr, 2013
FTP 2,244,000 Sep, 2013 - Aug, 2014

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1 **Item 127)** *Please refer to Crockett Direct beginning at page 5, line 18: Provide detail*
2 *on the Engineering supervision cost estimates on each line and substation construction*
3 *project identified on the latest Big Rivers three-year construction plan. Information*
4 *should include final spreadsheets, project descriptions, etc. in electronic format compatible*
5 *with Microsoft Office programs.*

6

7 **Response)** A copy of the final spreadsheet prepared by the Engineering supervision for
8 inclusion in the 2013 Capital Budget and the 2014 Financial Plan are provided as attachments
9 to this response.

10

11 **Witness)** David G. Crockett

**ELECTRONIC
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1 **Item 128)** *Please refer to Crockett Direct at page 5, line 18: Provide any changes to*
2 *the Engineering supervision cost estimates on each line and substation construction*
3 *project identified on the latest Big Rivers three-year construction plan from*
4 *implementation of the Load Concentration Mitigation plan.*

5
6 **Response)** No changes to the Engineering supervision cost estimates on line and
7 substation construction projects have been made as a result of the implementation of the
8 Load Concentration Mitigation plan.

9
10 **Witness)** David G. Crockett

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1 **Item 129)** *Please refer to Crockett Direct beginning at page 8, line 3: Provide system*
2 *drawings and diagrams depicting Big Rivers' transmission facilities, their interties to other*
3 *transmission owners, as well as depicting phase 1 and phase 2 transmission projects.*
4 *Information may be provided in accessible viewable electronic format (PDF, etc.).*

5

6 **Response)** Please see the attached CONFIDENTIAL electronic file(s) containing a copy
7 of Big Rivers' system map, provided under a petition for confidential treatment. It includes
8 all Big Rivers' transmission facilities, interties, and the phase 1 and 2 transmission projects.

9

10 **Witness)** David G. Crockett

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1 **Item 130)** *Please refer to Crockett Direct beginning at page 8, line 3: Provide any*
2 *changes to system drawings and diagrams depicting Big Rivers' transmission facilities,*
3 *their interties to other transmission owners, as well as depicting phase 1 and phase 2*
4 *transmission projects from implementation of the Load Concentration Mitigation plan.*

5

6 **Response)** No changes to Big Rivers' system drawings and diagrams have been made as
7 a result of the implementation of the Load Concentration Mitigation plan.

8

9 **Witness)** David G. Crockett

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1 **Item 131)** *Please refer to Crockett Direct beginning at page 8, line 3: Provide system*
2 *drawings and diagrams depicting regional transmission facilities to which Big Rivers is*
3 *interconnected (overview of interconnected MISO and TVA systems, etc.). Information*
4 *may be provided in accessible viewable electronic format (PDF, etc.).*

5

6 **Response)** Please see response to AG 1-129.

7

8 **Witness)** David G. Crockett

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1 **Item 132)** *Please refer to Crockett Direct beginning at page 8, line 3: Provide cost*
2 *detail of phase 2 transmission project. Information should include final spreadsheets,*
3 *project descriptions, etc. in electronic format compatible with Microsoft Office programs.*

4

5 **Response)** The phase 2 new transmission line project's final cost information is provided
6 as an electronic attachment to this response.

7

8 **Witness)** David G. Crockett

**ELECTRONIC
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1 **Item 133)** *Please refer to Crockett Direct beginning at page 8, line 3: Provide any*
2 *changes to cost detail of phase 2 transmission project from implementation of the Load*
3 *Concentration Mitigation plan.*

4

5 **Response)** No changes to the cost of the phase 2 transmission project have been made as
6 a result of the implementation of the Load Concentration Mitigation plan.

7

8 **Witness)** David G. Crockett

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1 **Item 134)** *Please provide copies of all reports, spreadsheets, etc. provided as part of the*
2 *MISO assessment of transfer capability from the Big Rivers transmission zone into other*
3 *MISO zones and TVA.*

4

5 **Response)** A redacted version of the MISO Assessment report is provided in response to
6 PSC 2-13.

7

8 **Witness)** David G. Crockett

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1 **Item 135)** *Mr. Crocket's testimony addresses the forecast of capital plant and*
2 *forecasted plant for 2013 through 2016, along with 13-month average plant (and rate base*
3 *components), provided at various tabs/documents included in this rate case including (but*
4 *not limited to) Tab 22 (pages 1 to 36), Tab 26 (pages 1 and 2), Tab 27 (page 1 of 1), Tab 28,*
5 *Attachment 1 (pages 9 to 27), Tab 45 (pages 1 to 8), Exhibit Berry 2 (pages 1 to 15),*
6 *Exhibit Warren-2 (pages 3 to 18), Exhibit Wolfram-3 (pages 1 to 14) . Address the*
7 *following.*

8 **a.** *Because this rate case is not a typical revenue requirement calculated using*
9 *rate-of-return on rate base regulation, but is instead a revenue requirement*
10 *based on a TIER calculation - - then explain all reasons why Big Rivers*
11 *provides the forecasted capital budget and 13-month averages for rate base*
12 *components in this rate case (besides this being a requirement of Kentucky*
13 *Administrative Regulations) and explain why this is important to Big*
14 *Rivers' rate case and how it impacts the rate case and related revenue*
15 *requirement.*

16 **b.** *Explain how the forecasted capital plant budget should be used to show that*
17 *Big Rivers is, or is not, providing safe, low-cost, and reliable service to its*
18 *customers (Mr. Crocket testimony, p. 7, l. 11-16).*

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Response to AG 1-135

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- 1 c. *Explain if, and how, the forecasted capital plant budget is used to calculate*
2 *other expenses or costs included in this rate case for the base period (show*
3 *actual and forecasted amount separately), forecasted test period, and the*
4 *forecasted periods 2015 and 2016, and show all amounts by account*
5 *number and account description. Cite to all calculations in the Financial*
6 *Model, and provide all supporting documentation and calculations.*
- 7 d. *Regarding (c) and (d) above, as an example, explain if forecasted capital*
8 *plant is used to calculate other costs or other assumptions included in the*
9 *revenue requirement, such as fixed department expense for transmission*
10 *(Crockett, page 6, l. 3-19), depreciation expense, accumulated depreciation,*
11 *accumulated deferred income taxes, interest expense, AFUDC, the percent*
12 *of labor split between expensed and capitalized, the amount of Wilson and*
13 *Coleman that is idled, the impact of the loss of Alcan, and all other costs*
14 *and assumptions. Provide all applicable information requested in (c) above*
15 *for all cost components and assumptions in this rate case.*

16
17 **Response)**

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- 1 a. Big Rivers objects to the mischaracterization that “this rate case is not a
2 typical revenue requirement.” Notwithstanding this objection, and without
3 waiving it, Big Rivers responds as follows. Big Rivers submits that the use of
4 a TIER calculation is the typical approach used for electric cooperative rate
5 regulation. Big Rivers provides the forecasted capital budget and thirteen-
6 month averages for rate base components in order to comply with 807 KAR
7 5:001 Section 16. Other data provided but not required by the regulation is
8 provided in that same format to maintain consistency. It is important for Big
9 Rivers to comply with the applicable regulations. The data impacts the rate
10 case to the extent that providing this information in a format with which the
11 Commission and other parties are familiar may facilitate their review and
12 assessment of the information provided.
- 13 b. The transmission projects included in the forecasted capital plant budget are
14 taken from Rural Utilities Service (“RUS”) approved three year transmission
15 system construction work plans. The construction work plans identified
16 transmission system improvements required to continue to allow Big Rivers to
17 provide safe, low cost, and reliable service to its' Member systems. The
18 planning criteria on which the construction work plan studies are based were

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1 developed to meet RUS requirements, National Electric Safety Code
2 requirements, and NERC standards. The planning criteria define that all
3 transmission lines and transformers are to be operated within their ratings and
4 all system voltages are to be maintained at acceptable levels under normal and
5 single-contingency outage conditions. Thus, the current construction work
6 plan included the development of a list of capital construction projects
7 necessary to eliminate unacceptable voltages and equipment loading problems
8 identified in the study process by using the least cost solution available to Big
9 Rivers is thus able to continue on an on-going basis to fulfill its service
10 obligations to its Members in a safe, low-cost, and reliable manner.

11 c. Big Rivers objects that this request is overly broad and unduly burdensome.
12 Notwithstanding this objection, and without waiving it, Big Rivers responds
13 as follows. The forecasted capital plant budget is used to calculate
14 depreciation expense. Please see the attached electronic files for the
15 calculation of depreciation expense for years 2013-2016. Also, please see the
16 attached electronic schedule for depreciation by account for the periods
17 requested. The depreciation expense is included in the Financial Model on the
18 Capex and Depreciation sheet.

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1 d. The forecasted capital plant budget is not used to calculate any expenses other
2 than depreciation expense.

3

4 **Witnesses)** John Wolfram (part a)

5 David G. Crockett (part b)

6 Jeffrey R. Williams (part c and d)

**Case No. 2013-00199
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**Witnesses: John Wolfram, David G. Crockett, Jeffrey R. Williams
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1 **Item 136)** *Provide Exhibit Barron-3 in electronic format. Spreadsheet should include*
2 *all related formulas and other worksheets linked to cells printed in the Exhibit in an*
3 *electronic format compatible with Microsoft Office programs.*

4

5 **Response)** Please see the attached electronic file titled "AG 1-136 Elec. Att. Exhibit
6 Barron-3 - Demand Energy Budget 2014-2015 (Barron 082313).xlsx."

7

8 **Witness)** Lindsay N. Barron

**ELECTRONIC
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1 **Item 137)** *Please refer to Exhibit Barron 3: Provide Actual 2010, 2011, 2012 and*
2 *2013 YTD Billing Demands and Energy on a monthly basis for comparison to Exhibit*
3 *Barron-3, in electronic format. Spreadsheet should include all related formulas and other*
4 *worksheets linked to cells printed in the Exhibit in an electronic format compatible with*
5 *Microsoft Office programs.*

6

7 **Response)** Please see attached the electronic file(s) containing the 2010-2012
8 spreadsheets.

9

10 **Witness)** Lindsay N. Barron

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1 **Item 138)** *Reference the Wolfram testimony at pp. 38-39. Please produce copies of any*
2 *and all communications regarding the cost impact estimates between Big Rivers, its*
3 *consultants and its member-owners.*

4

5 **Response)** Please see the response to AG 1-158.

6

7 **Witness)** Billie J. Richert

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1 **Item 139)** *Please provide the latest load forecast (and associated documentation and*
2 *workpapers) performed by outside consultants for Big Rivers, and identify any and all*
3 *such outside consultants. Please provide this information in Excel spreadsheets with all*
4 *formulae intact.*

5

6 **Response)** The requested information is provided under petition for confidential
7 treatment in multiple files in the folder "AG-1-139 Elec. Atts. (CONFIDENTIAL)
8 (Barron082313)," which is contained in the electronic files accompanying these responses.
9 The file "Model Tables.XLSX" contains the forecast tables that are presented in Appendix B
10 of the 2013 Load Forecast report.

11 Big Rivers contracted with GDS Associates, Inc. to prepare the 2013 Load Forecast, which
12 was completed in April 2013.

13

14 **Witness)** Lindsay N. Barron

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199**

**Response to the Office of the Attorney General's
Initial Request for Information
dated August 19, 2013**

September 3, 2013

1 **Item 140)** *Please provide the latest load forecast documentation submitted to RUS for*
2 *RUS approval.*

3

4 **Response)** Please see the electronic file labeled "2013 Load Forecast_BigRivers_04-17-
5 13.pdf" provided in response to AG 1-139.

6

7 **Witness)** Lindsay N. Barron

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199**

**Response to the Office of the Attorney General's
Initial Request for Information
dated August 19, 2013**

September 3, 2013

1 **Item 141)** *Please provide coincident peak demands on a monthly basis for the rurals,*
2 *large industrials, and each smelter for the years 2010, 2011, 2012 and 2013, as well as the*
3 *hour and date of each coincident peak.*

4

5 **Response)** Please see the confidential documents provided in Case No. 2012-00535 in
6 response to AG 1-156 as well as the documents attached hereto.

7

8 **Witness)** Lindsay N. Barron

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*****
*****
**
**          PROGRAMMERS AS/400 - BIG RIVERS          **
**
** JOB TITLE : POWER COST SUMMARY - INDUSTRIALS - ALPHA ORDER **
**
** PROGRAM ID : EBR104 **
**
** DEPARTMENT : GA **
**
** INDIVIDUAL : MJM **
**
** DATE JOB RAN : 8/22/13      TIME IN : 8:24:44 **
**
** DATE OF REPORT : 8/22/13 **
**
** SPECIAL MESSAGE : **
**
** NUMBER OF COPIES : 1 **
**
** JOB : 474311/FS21001492/EBR104      PGM : *LIBL/EBR106B **
**
*****
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Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-141

EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

PAGE 1
DATE 8/22/13

| SUBSTN |METER READ..... | | TIME | DAY | KW DEMAND ACTUAL | BILLED | KWH USED |L.F.%..... | | MILLS PER KWH |POWER FACTOR..... | | | MONTH |
|------------------------------|-------------------------------|-----------------|-------------|-------------|---------------------|-----------|-------------|-----------------|---------|------------------|------------------------|------|------|-------|
| | PREVIOUS | PRESENT | | | | | | ACTUAL BILLED | PER KWH | | BASE | PEAK | AVE. | |
|TOTAL LINE..... | | | | | | | | | | | TOTAL COST | | | |
| CHARGE | FUEL ADJ | ENVIR.SURCHARGE | P/F PENALTY | | | | | | | | | | | |
| ACCURIDE CORPORATION | | | | | | | | | | | | 088 | KE* | |
| | | 4,891 | 4,891 | 2,067,620 | 56.82 | 56.82 | 47.87 | 90.00% | 98.00% | 78.00% | | 01 | | |
| | | 4,876 | 4,876 | 1,846,120 | 56.34 | 56.34 | 50.90 | 90.00% | 97.00% | 77.00% | | 02 | | |
| | | 5,035 | 5,035 | 2,008,880 | 53.70 | 53.70 | 49.39 | 90.00% | 96.00% | 77.00% | | 03 | | |
| | | 5,216 | 5,216 | 2,218,670 | 59.07 | 59.08 | 47.65 | 90.00% | 96.00% | 84.00% | | 04 | | |
| | | 5,080 | 5,080 | 2,361,538 | 62.48 | 62.48 | 45.49 | 90.00% | 97.00% | 84.00% | | 05 | | |
| | | 5,065 | 5,065 | 2,031,670 | 55.71 | 55.71 | 49.24 | 90.00% | 96.00% | 79.00% | | 06 | | |
| | 94907500 97148760 11:30 7/18 | 5,322 | 5,322 | 2,241,260 | 56.60 | 56.60 | 48.89 | 90.00% | 96.00% | 83.00% | | 07 | | |
| YEAR TO DATE | | 5,322 | 5,322 | 14,775,758 | 54.57 | 54.57 | 52.83 | | | | | | | |
| CURRENT | 109,672.23 | 6,983.77 | | 6,022.46 | | .00 | | | | 119,637.07 | | | | |
| | | NSNFPPA: | | 2,333.15- | NSNFPPA2: | | 708.24- | | | | | | | |
| YEAR TO DATE | 722,961.16 | 48,759.90 | | 39,622.51 | | .00 | | | | 780,580.45 | | | | |
| ALCOA, INC. - PO 190035471 | | | | | | | | | | | | 192 | KE* | |
| | | 194 | 194 | 119,180 | 82.57 | 82.57 | 49.74 | 90.00% | 57.00% | 50.00% | | 01 | | |
| | | 184 | 184 | 96,410 | 78.06 | 77.97 | 56.96 | 90.00% | 53.00% | 47.00% | | 02 | | |
| | | 169 | 169 | 97,030 | 77.37 | 77.27 | 55.88 | 90.00% | 50.00% | 45.00% | | 03 | | |
| | | 176 | 176 | 87,150 | 68.62 | 68.77 | 70.81 | 90.00% | 40.00% | 41.00% | | 04 | | |
| | | 139 | 139 | 82,950 | 80.44 | 80.21 | 63.79 | 90.00% | 39.00% | 40.00% | | 05 | | |
| | | 116 | 116 | 79,050 | 94.81 | 94.65 | 57.88 | 90.00% | 40.00% | 40.00% | | 06 | | |
| | 10170990 10251380 4:00 7/01 | 116 | 116 | 80,390 | 93.31 | 93.15 | 58.28 | 90.00% | 40.00% | 39.00% | | 07 | | |
| YEAR TO DATE | | 194 | 194 | 642,160 | 65.06 | 65.06 | 63.87 | | | | | | | |
| CURRENT | 3,276.91 | 250.50 | | 174.75 | | 1,522.50 | | | | 5,115.57 | | | | |
| | | NSNFPPA: | | 83.69- | NSNFPPA2: | | 25.40- | | | | | | | |
| YEAR TO DATE | 27,567.86 | 2,097.95 | | 1,479.68 | | 11,203.50 | | | | 41,012.01 | | | | |
| ALERIS ROLLED PRODUCTS, INC. | | | | | | | | | | | | 100 | KE* | |
| | | 28,180 | 28,180 | 14,864,040 | 70.90 | 70.90 | 39.08 | 90.00% | 88.00% | 88.00% | | 01 | | |
| | | 27,594 | 27,594 | 14,142,520 | 76.27 | 76.27 | 39.66 | 90.00% | 94.00% | 90.00% | | 02 | | |
| | | 28,690 | 28,690 | 16,101,490 | 75.53 | 75.53 | 37.89 | 90.00% | 83.00% | 90.00% | | 03 | | |
| | | 27,537 | 27,537 | 13,736,690 | 69.28 | 69.28 | 40.24 | 90.00% | 93.00% | 94.00% | | 04 | | |
| | | 27,367 | 27,367 | 15,787,060 | 77.54 | 77.54 | 37.38 | 90.00% | 82.00% | 87.00% | | 05 | | |
| | | 27,084 | 27,084 | 15,397,440 | 78.96 | 78.96 | 37.65 | 90.00% | 82.00% | 86.00% | | 06 | | |
| | 107584240 122866650 2:00 7/08 | 28,010 | 28,010 | 15,282,410 | 73.34 | 73.33 | 39.43 | 90.00% | 95.00% | 91.00% | | 07 | | |
| YEAR TO DATE | | 28,690 | 28,690 | 105,311,650 | 72.14 | 72.14 | 38.71 | | | | | | | |
| CURRENT | 539,144.17 | 47,619.99 | | 36,502.90 | | .00 | | | | 602,528.83 | | | | |
| | | NSNFPPA: | | 15,908.99- | NSNFPPA2: | | 4,829.24- | | | | | | | |
| YEAR TO DATE | 3,697,207.88 | 348,510.95 | | 250,563.36 | | .00 | | | | 4,077,023.33 | | | | |
| | | NSNFPPA: | | 109,629.43- | NSNFPPA2: | | 109,629.43- | | | | | | | |

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-141

EBR106B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 2
 DATE 8/22/13

| SUBSTN |METER READ.... | | | | KW DEMAND..... | |L.F.%.... | | MILLS |POWER FACTOR... | | | MONTH | |
|---------------------------------|----------------------|----------|-----------------|-------------|----------------|------------|---------------|-----------|------------|---------------------|--------|--------|--------------|---------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | ACTUAL | BILLED | PER KWH | BASE | PEAK | AVE. | | |
| |TOTAL LINE..... | | | | | | | | | | | | | |
| CHARGE | | FUEL ADJ | ENVIR.SURCHARGE | P/F PENALTY | | TOTAL COST | | | | | | | | |
| AMG ALUMINUM NORTH AMERICA, LLC | | | | | | | | | | | | | | |
| | | | | | 1,953 | 2,001 | 824,030 | 56.72 | 55.35 | 47.56 | 90.00% | 95.00% | 93.00% | 066 KE* |
| | | | | | 1,903 | 2,001 | 735,920 | 57.55 | 54.73 | 50.62 | 90.00% | 89.00% | 91.00% | 01 |
| | | | | | 2,145 | 2,145 | 779,570 | 48.92 | 48.91 | 50.97 | 90.00% | 96.00% | 91.00% | 02 |
| | | | | | 2,032 | 2,032 | 647,150 | 44.22 | 44.23 | 55.07 | 90.00% | 92.00% | 90.00% | 03 |
| | | | | | 1,856 | 2,001 | 612,910 | 44.40 | 41.17 | 56.39 | 90.00% | 84.00% | 89.00% | 04 |
| | | | | | 1,918 | 2,001 | 605,350 | 43.83 | 42.02 | 56.82 | 90.00% | 89.00% | 90.00% | 05 |
| 55519850 | 56163510 | 9:00 | 7/09 | | 1,994 | 2,001 | 643,660 | 43.40 | 43.24 | 57.15 | 90.00% | 86.00% | 89.00% | 06 |
| YEAR TO DATE | | | | | 2,145 | 2,145 | 4,848,590 | 44.43 | 44.43 | 58.00 | | | | 07 |
| CURRENT | 36,135.85 | | | | 2,005.64 | 1,990.00 | | 903.00 | | | | | 40,161.04 | |
| YEAR TO DATE | 260,092.68 | | | | NSNFPPA: | 670.05- | | NSNFPPA2: | 203.40- | | | | 281,204.01 | |
| | | | | | NSNFPPA: | 5,047.38- | | NSNFPPA2: | 5,047.38- | | | | | |
| ARMSTRONG - DOCK | | | | | | | | | | | | | | 212 KE* |
| | | | | | 8,669 | 8,669 | 3,790,160 | 58.77 | 58.76 | 48.16 | 90.00% | 94.00% | 96.00% | 01 |
| | | | | | 9,072 | 9,072 | 3,628,780 | 59.52 | 59.52 | 50.01 | 90.00% | 94.00% | 96.00% | 02 |
| | | | | | 10,080 | 10,080 | 4,411,280 | 58.90 | 58.90 | 47.55 | 90.00% | 92.00% | 95.00% | 03 |
| | | | | | 9,639 | 9,639 | 3,887,410 | 56.01 | 56.01 | 50.22 | 90.00% | 92.00% | 94.00% | 04 |
| | | | | | 9,293 | 9,293 | 3,919,200 | 56.69 | 56.69 | 49.00 | 90.00% | 92.00% | 94.00% | 05 |
| | | | | | 9,173 | 9,173 | 3,621,720 | 54.84 | 54.84 | 51.52 | 90.00% | 94.00% | 94.00% | 06 |
| 94141830 | 97794720 | 17:00 | 7/18 | | 9,419 | 9,419 | 3,652,890 | 52.13 | 52.13 | 52.43 | 90.00% | 96.00% | 94.00% | 07 |
| YEAR TO DATE | | | | | 10,080 | 10,080 | 26,911,440 | 52.47 | 52.47 | 54.33 | | | | |
| CURRENT | 192,461.67 | | | | 11,382.41 | 10,226.17 | | .00 | | | | | 209,113.28 | |
| YEAR TO DATE | 1,356,542.63 | | | | NSNFPPA: | 3,802.66- | | NSNFPPA2: | 1,154.31- | | | | 1,462,091.87 | |
| | | | | | NSNFPPA: | 28,014.81- | | NSNFPPA2: | 28,014.81- | | | | | |
| ARMSTRONG - EQUALITY | | | | | | | | | | | | | | 215 KE* |
| | | | | | 3,200 | 3,200 | 1,557,400 | 65.41 | 65.41 | 45.84 | 90.00% | 96.00% | 93.00% | 01 |
| | | | | | 3,137 | 3,137 | 1,391,500 | 66.00 | 66.01 | 48.22 | 90.00% | 95.00% | 93.00% | 02 |
| | | | | | 3,011 | 3,011 | 1,552,800 | 69.40 | 69.41 | 44.67 | 90.00% | 94.00% | 92.00% | 03 |
| | | | | | 3,251 | 3,251 | 1,507,800 | 64.42 | 64.42 | 47.04 | 90.00% | 95.00% | 92.00% | 04 |
| | | | | | 3,087 | 3,087 | 1,438,810 | 62.65 | 62.65 | 47.00 | 90.00% | 96.00% | 91.00% | 05 |
| | | | | | 3,156 | 3,156 | 1,446,710 | 63.66 | 63.67 | 47.04 | 90.00% | 94.00% | 92.00% | 06 |
| 45361890 | 46776630 | 21:30 | 7/10 | | 3,081 | 3,081 | 1,414,740 | 61.72 | 61.72 | 48.47 | 90.00% | 95.00% | 91.00% | 07 |
| YEAR TO DATE | | | | | 3,251 | 3,251 | 10,309,760 | 62.33 | 62.33 | 51.15 | | | | |
| CURRENT | 68,723.18 | | | | 4,408.33 | 3,648.12 | | .00 | | | | | 74,859.83 | |
| YEAR TO DATE | 488,720.90 | | | | NSNFPPA: | 1,472.74- | | NSNFPPA2: | 447.06- | | | | 527,362.03 | |
| | | | | | NSNFPPA: | 10,732.45- | | NSNFPPA2: | 10,732.45- | | | | | |

EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

PAGE 3
DATE 8/22/13

| SUBSTN | METER READ | | TIME | DAY | KW DEMAND ACTUAL | KWH USED BILLED | L.F.% | | MILLS PER KWH | POWER FACTOR | | | MONTH | |
|-------------------------|------------|--------------|----------|-----------------|---------------------|--------------------|------------|----------|------------------|--------------|--------|--------------|---------|----|
| | PREVIOUS | PRESENT | | | | | ACTUAL | BILLED | | BASE | PEAK | AVE. | | |
|TOTAL LINE..... | | | | | | | | | | | | | | |
| | | CHARGE | FUEL ADJ | ENVIR.SURCHARGE | P/F | PENALTY | TOTAL COST | | | | | | | |
| ARMSTRONG - LEWIS CREEK | | | | | | | | | | | | | 217 KE* | |
| | | | | 1,178 | 1,178 | 495,430 | 56.52 | 56.53 | 55.77 | 90.00% | 70.00% | 76.00% | 01 | |
| | | | | 1,222 | 1,222 | 485,720 | 59.14 | 59.15 | 51.28 | 90.00% | 98.00% | 87.00% | 02 | |
| | | | | 1,329 | 1,329 | 483,260 | 48.93 | 48.94 | 55.35 | 90.00% | 95.00% | 95.00% | 03 | |
| | | | | 1,481 | 1,481 | 599,210 | 56.21 | 56.19 | 49.33 | 90.00% | 94.00% | 96.00% | 04 | |
| | | | | 2,098 | 3,500 | 665,400 | 42.63 | 25.55 | 79.50 | 90.00% | 87.00% | 91.00% | 05 | |
| | | | | 2,249 | 3,500 | 741,460 | 45.79 | 29.42 | 74.40 | 90.00% | 87.00% | 90.00% | 06 | |
| | 9258220 | 10110910 | 14:00 | 7/31 | 2,268 | 3,500 | 852,690 | 50.53 | 32.75 | 68.86 | 90.00% | 88.00% | 90.00% | 07 |
| YEAR TO DATE | | | | 2,268 | 3,500 | 4,323,170 | 37.46 | 24.28 | 69.61 | | | | | |
| CURRENT | | 59,503.07 | | 2,656.98 | | 3,104.20 | | .00 | | | | 64,107.15 | | |
| YEAR TO DATE | | 277,585.14 | | 14,307.37 | | 14,488.58 | | 3,538.50 | | 269.45- | | 300,918.77 | | |
| | | | | NSNFPPA: | | 887.65- | | | | | | | | |
| | | | | NSNFPPA2: | | | | | | | | | | |
| ARMSTRONG - MIDWAY | | | | | | | | | | | | | 211 KE* | |
| | | | | 4,870 | 4,870 | 2,549,430 | 70.36 | 70.36 | 42.04 | 90.00% | 94.00% | 91.00% | 01 | |
| | | | | 5,037 | 5,037 | 2,525,210 | 74.61 | 74.60 | 42.92 | 90.00% | 93.00% | 92.00% | 02 | |
| | | | | 5,049 | 5,049 | 2,694,340 | 71.82 | 71.82 | 41.66 | 90.00% | 94.00% | 91.00% | 03 | |
| | | | | 5,002 | 5,002 | 2,513,500 | 69.79 | 69.79 | 42.88 | 90.00% | 93.00% | 89.00% | 04 | |
| | | | | 4,750 | 4,750 | 2,440,293 | 69.05 | 69.05 | 42.43 | 90.00% | 93.00% | 87.00% | 05 | |
| | | | | 4,716 | 4,716 | 2,436,780 | 71.77 | 71.76 | 42.31 | 90.00% | 90.00% | 86.00% | 06 | |
| | 8347420 | 10651600 | 21:00 | 7/15 | 4,649 | 4,649 | 2,304,180 | 66.61 | 66.62 | 44.18 | 90.00% | 90.00% | 88.00% | 07 |
| YEAR TO DATE | | | | 5,049 | 5,049 | 17,463,733 | 67.98 | 67.98 | 46.51 | | | | | |
| CURRENT | | 101,341.28 | | 7,179.82 | | 5,738.33 | | .00 | | | | 111,132.66 | | |
| YEAR TO DATE | | 748,381.32 | | 57,713.68 | | 42,563.21 | | .00 | | 728.12- | | 812,298.71 | | |
| | | | | NSNFPPA: | | 2,398.65- | | | | | | | | |
| | | | | NSNFPPA2: | | | | | | | | | | |
| DOMTAR PAPER CO LLC | | | | | | | | | | | | | 108 KE* | |
| | | | | 64,498 | 15,000 | 29,429,310 | | | | | | | 01 | |
| | | | | 49,507 | 15,000 | 25,146,660 | | | | | | | 02 | |
| | | | | 46,116 | 15,000 | 28,807,420 | | | | | | | 03 | |
| | | | | 56,074 | 15,000 | 28,751,410 | | | | | | | 04 | |
| | | | | 69,466 | 35,000 | 30,132,340 | | | | | | | 05 | |
| | | | | 69,012 | 35,000 | 31,256,240 | | | | | | | 06 | |
| | 155536300 | 188493200 | 3:00 | 7/11 | 68,429 | 35,000 | 32,956,900 | | | | | | 07 | |
| YEAR TO DATE | | | | 69,466 | 35,000 | 206,480,280 | | | | | | | | |
| CURRENT | | 1,052,218.71 | | 80,756.99 | | 55,015.00 | | .00 | | | | 1,152,821.50 | | |
| YEAR TO DATE | | 6,937,034.03 | | 401,668.12 | | 254,801.39 | | .00 | | 8,189.73- | | 7,343,236.08 | | |
| | | | | NSNFPPA: | | 26,979.47- | | | | | | | | |
| | | | | NSNFPPA2: | | | | | | | | | | |
| | | | | NSNFPPA: | | 125,133.73- | | | | | | 125,133.73- | | |

FBR106B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 4
 DATE 8/22/13

| SUBSTN | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | PER KWH | POWER FACTOR | | | MONTH |
|--|------------|-----------|-------|------|-----------|--------|------------------|-----------|-------------|-----------|--------------|---------|-----------|------------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | ACTUAL | BILLED | | BASE | PEAK | AVE. | |
| TOTAL LINE | | | | | | | TOTAL COST | | | | | | | |
| CHARGE | | | | | FUEL ADJ | | ENVI.R.SURCHARGE | | P/F PENALTY | | TOTAL COST | | | |
| DOTIKI #3 - WEBSTER COUNTY COAL CO. | | | | | | | | | | | | | | |
| | | | | | 187 | 187 | 77,850 | 55.90 | 55.96 | 48.98 | 90.00% | 88.00% | 77.00% | 188 KE* 01 |
| | | | | | 177 | 177 | 36,730 | 30.85 | 30.88 | 79.55 | 90.00% | 83.00% | 71.00% | 02 |
| | | | | | 94 | 94 | 35,800 | 51.48 | 51.26 | 52.42 | 90.00% | 89.00% | 67.00% | 03 |
| | | | | | 181 | 181 | 83,200 | 63.70 | 63.84 | 47.68 | 90.00% | 84.00% | 75.00% | 04 |
| | | | | | 173 | 173 | 70,630 | 54.94 | 54.87 | 50.92 | 90.00% | 83.00% | 73.00% | 05 |
| | | | | | 193 | 193 | 77,040 | 55.44 | 55.44 | 52.46 | 90.00% | 81.00% | 74.00% | 06 |
| | 40750850 | 40829310 | 14:00 | 7/18 | 189 | 189 | 78,460 | 55.92 | 55.80 | 52.77 | 90.00% | 80.00% | 72.00% | 07 |
| YEAR TO DATE | | | | | 193 | 193 | 459,710 | 46.81 | 46.81 | 54.32 | | | | |
| CURRENT | | 3,662.55 | | | 244.48 | | 212.31 | | 252.00 | | | | 4,264.87 | |
| YEAR TO DATE | | 22,216.39 | | | 1,492.78 | | 1,287.12 | | 934.50 | | | | 24,973.65 | |
| | | | | | NSNFPPA: | | 478.57- | NSNFPPA2: | | 478.57- | | | | |
| ELK CREEK MINE - HOPKINS CO COAL | | | | | | | | | | | | | | |
| | | | | | 139 | 750 | 36,540 | 35.44 | 6.55 | 240.19 | 90.00% | 48.00% | 35.00% | 218 KE* 01 |
| | | | | | 208 | 750 | 53,080 | 37.98 | 10.53 | 172.18 | 90.00% | 46.00% | 48.00% | 02 |
| | | | | | 296 | 750 | 73,350 | 33.33 | 13.16 | 130.66 | 90.00% | 55.00% | 49.00% | 03 |
| | | | | | 737 | 750 | 173,670 | 32.72 | 32.16 | 71.43 | 90.00% | 82.00% | 68.00% | 04 |
| | | | | | 554 | 750 | 402,050 | 97.47 | 72.05 | 41.77 | 90.00% | 82.00% | 82.00% | 05 |
| | | | | | 617 | 750 | 388,850 | 87.47 | 72.01 | 42.45 | 90.00% | 80.00% | 82.00% | 06 |
| | 1132210 | 1535080 | 30 | 7/15 | 554 | 750 | 402,870 | 97.67 | 72.20 | 42.73 | 90.00% | 82.00% | 82.00% | 07 |
| YEAR TO DATE | | | | | 737 | 750 | 1,530,410 | 40.81 | 40.11 | 62.63 | | | | |
| CURRENT | | 16,572.11 | | | 1,255.34 | | 968.67 | | .00 | | | | 18,249.42 | |
| YEAR TO DATE | | 88,270.22 | | | 5,182.07 | | 4,962.93 | | 619.50 | | | | 95,848.40 | |
| | | | | | NSNFPPA: | | 1,593.16- | NSNFPPA2: | | 1,593.16- | | | | |
| HOPKINS CO COAL, LLC. | | | | | | | | | | | | | | |
| | | | | | 416 | 416 | 170,540 | 55.13 | 55.10 | 48.14 | 90.00% | 99.00% | 94.00% | 091 KE* 01 |
| | | | | | 422 | 422 | 173,570 | 61.18 | 61.21 | 48.04 | 90.00% | 97.00% | 94.00% | 02 |
| | | | | | 416 | 416 | 177,620 | 57.49 | 57.47 | 47.10 | 90.00% | 97.00% | 93.00% | 03 |
| | | | | | 416 | 416 | 171,440 | 57.27 | 57.24 | 48.01 | 90.00% | 99.00% | 93.00% | 04 |
| | | | | | 378 | 378 | 142,398 | 50.63 | 50.63 | 50.52 | 90.00% | 95.00% | 90.00% | 05 |
| | | | | | 365 | 365 | 108,060 | 41.07 | 41.12 | 58.34 | 90.00% | 95.00% | 85.00% | 06 |
| | 15552110 | 15602710 | 10:30 | 7/08 | 95 | 100 | 50,600 | 71.89 | 68.01 | 45.70 | 90.00% | 100.00% | 80.00% | 07 |
| YEAR TO DATE | | | | | 422 | 422 | 994,228 | 46.30 | 46.30 | 52.20 | | | | |
| CURRENT | | 2,237.06 | | | 157.67 | | 124.86 | | .00 | | | | 2,450.93 | |
| YEAR TO DATE | | 47,946.14 | | | 3,284.85 | | 2,733.23 | | .00 | | | | 51,894.24 | |
| | | | | | NSNFPPA: | | 1,034.99- | NSNFPPA2: | | 1,034.99- | | | | |

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-141

EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
P O W E R C O S T S U M M A R Y

PAGE 5
DATE 8/22/13

| SUBSTN |METER READ..... | | | KW DEMAND ACTUAL | BILLED | KWH USED |L.F.%..... | | MILLS PER KWH |POWER FACTOR..... | | | MONTH |
|-------------------------------------|----------------------|-----------|----------------|---------------------|-------------|-------------|-----------------|-----------|------------------|------------------------|--------|--------|------------|
| | PREVIOUS | PRESENT | TIME DAY | | | | ACTUAL BILLED | ACTUAL | | BILLED | BASE | PEAK | |
|TOTAL LINE..... | | | | | | | | | | | | | |
| | CHARGE | FUEL ADJ | ENVR.SURCHARGE | | P/F PENALTY | | | | | TOTAL COST | | | |
| KIMBERLY-CLARK CORPORATION | | | | | | | | | | | | | |
| | | | | 37,886 | 37,886 | 26,930,250 | 95.54 | 95.54 | 33.91 | 90.00% | 91.00% | 92.00% | 120 KE* 01 |
| | | | | 37,714 | 37,714 | 24,011,120 | 94.74 | 94.74 | 35.64 | 90.00% | 91.00% | 91.00% | 02 |
| | | | | 38,059 | 38,059 | 26,699,800 | 94.42 | 94.42 | 34.12 | 90.00% | 91.00% | 91.00% | 03 |
| | | | | 38,059 | 38,059 | 25,356,830 | 92.53 | 92.53 | 34.92 | 90.00% | 91.00% | 92.00% | 04 |
| | | | | 37,800 | 37,800 | 23,914,540 | 85.03 | 85.03 | 35.75 | 90.00% | 91.00% | 91.00% | 05 |
| | | | | 38,189 | 38,189 | 26,349,550 | 95.83 | 95.83 | 34.37 | 90.00% | 91.00% | 92.00% | 06 |
| | 49664230 | 75366930 | 7:30 7/04 | 38,578 | 38,578 | 25,702,700 | 89.55 | 89.55 | 35.91 | 90.00% | 91.00% | 91.00% | 07 |
| YEAR TO DATE | | | | 38,578 | 38,578 | 178,964,790 | 91.18 | 91.18 | 34.92 | | | | |
| CURRENT | 821,192.08 | | | 80,089.61 | | 56,691.45 | | .00 | | 923,094.58 | | | |
| | | | | NSNFPPA: | | 26,756.51- | NSNFPPA2: | 8,122.05- | | | | | |
| YEAR TO DATE | 5,640,939.89 | | | 589,836.39 | | 391,065.86 | | .00 | | 6,249,237.44 | | | |
| Pennyrile Energy,LLC Riveredge Mine | | | | | | | | | | | | | |
| | | | | 277 | 290 | 2,690 | 1.30 | 1.25 | 1,559.00 | 90.00% | 65.00% | 34.00% | 219 KE* 07 |
| YEAR TO DATE | 2690 11:00 7/30 | | | 277 | 290 | 2,690 | 1.31 | 1.25 | 702.12 | | | | |
| CURRENT | 3,423.44 | | | 8.38 | | 163.52 | | 987.00 | | 4,578.69 | | | |
| | | | | NSNFPPA: | | 2.80- | NSNFPPA2: | .85- | | | | | |
| YEAR TO DATE | 3,425.39 | | | 8.38 | | 163.52 | | 987.00 | | 4,578.69 | | | |
| PATRIOT COAL LP | | | | | | | | | | | | | |
| | | | | 1,877 | 3,300 | 546,110 | 39.10 | 22.24 | 85.57 | 90.00% | 80.00% | 35.00% | 095 KE* 01 |
| YEAR TO DATE | | | | 595 | 3,300 | 182,530 | 45.62 | 8.23 | 212.32 | 90.00% | 31.00% | 15.00% | 02 |
| | | | | 1,877 | 3,300 | 728,640 | 27.41 | 15.59 | 118.92 | | | | |
| CURRENT | .00 | | | .00 | | .00 | | .00 | | .00 | | | |
| | | | | NSNFPPA: | | .00 | NSNFPPA2: | .00 | | | | | |
| YEAR TO DATE | 81,408.74 | | | 1,993.93 | | 4,762.62 | | .00 | | 86,648.27 | | | |
| PRECOAT METALS CORP | | | | | | | | | | | | | |
| | | | | 3,576 | 3,576 | 1,454,100 | 54.66 | 54.65 | 47.83 | 90.00% | 90.00% | 84.00% | 118 KE* 01 |
| | | | | 3,546 | 3,546 | 1,337,830 | 56.15 | 56.14 | 50.16 | 90.00% | 89.00% | 85.00% | 02 |
| | | | | 3,568 | 3,568 | 1,324,300 | 49.95 | 49.95 | 50.63 | 90.00% | 89.00% | 82.00% | 03 |
| | | | | 3,561 | 3,561 | 1,489,250 | 58.09 | 58.08 | 47.69 | 90.00% | 88.00% | 85.00% | 04 |
| | | | | 3,523 | 3,523 | 1,429,250 | 54.53 | 54.53 | 47.90 | 90.00% | 91.00% | 84.00% | 05 |
| | | | | 3,538 | 3,538 | 1,355,870 | 53.23 | 53.23 | 49.42 | 90.00% | 91.00% | 83.00% | 06 |
| | 119935230 | 121371870 | 17:30 7/26 | 3,644 | 3,644 | 1,436,640 | 52.99 | 52.99 | 49.65 | 90.00% | 90.00% | 82.00% | 07 |
| YEAR TO DATE | | | | 3,644 | 3,644 | 9,827,240 | 53.00 | 53.00 | 49.00 | | | | |
| CURRENT | 64,814.94 | | | 4,476.57 | | 3,988.56 | | .00 | | 71,330.55 | | | |
| | | | | NSNFPPA: | | 1,495.54- | NSNFPPA2: | 453.98- | | | | | |
| YEAR TO DATE | 440,834.48 | | | 32,354.46 | | 27,113.23 | | 1,690.50 | | 481,532.35 | | | |

NSNFPPA: 10,230.16- NSNFPPA2: 10,230.16-

EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

PAGE 6
DATE 8/22/13

| SUBSTN | METER READ | | TIME | DAY | KW DEMAND | ACTUAL | BILLED | KWH USED | L.F.% | | MILLS PER KWH | POWER FACTOR | | | MONTH |
|-------------------------|--------------|---------|-----------|-----|---------------------|--------|----------------------|----------|------------|-----------|---------------|--------------|--------------|------|---------|
| | PREVIOUS | PRESENT | | | | | | | ACTUAL | BILLED | | BASE | PEAK | AVE. | |
|TOTAL LINE..... | | | | | | | | | | | | | | | |
| | CHARGE | | FUEL ADJ | | ENVIR.SURCHARGE | | P/F PENALTY | | TOTAL COST | | | | | | |
| SEBREE MINING-KMMC | | | | | | | | | | | | | | | 098 KE* |
| | | | | | 205 | 205 | 94,530 | 62.04 | 61.98 | 48.99 | 90.00% | 79.00% | 97.00% | | 01 |
| | | | | | 208 | 208 | 82,670 | 59.14 | 59.14 | 49.57 | 90.00% | 97.00% | 76.00% | | 02 |
| | | | | | 198 | 198 | 75,500 | 51.22 | 51.32 | 50.81 | 90.00% | 97.00% | 97.00% | | 03 |
| | | | | | 180 | 180 | 45,630 | 35.29 | 35.21 | 65.56 | 90.00% | 97.00% | 93.00% | | 04 |
| | | | | | 107 | 107 | 33,580 | 42.10 | 42.18 | 59.64 | 90.00% | 87.00% | 91.00% | | 05 |
| | | | | | 117 | 117 | 34,800 | 41.45 | 41.31 | 60.13 | 90.00% | 90.00% | 91.00% | | 06 |
| 31112320 | 31147530 | 13:30 | 7/23 | | 110 | 110 | 35,210 | 42.95 | 43.02 | 58.90 | 90.00% | 90.00% | 92.00% | | 07 |
| YEAR TO DATE | | | | | 208 | 208 | 401,920 | 37.98 | 37.98 | 59.02 | | | | | |
| CURRENT | 2,082.50 | | 109.71 | | 109.16 | | 10.50 | | | | | | 2,264.09 | | |
| YEAR TO DATE | 21,730.34 | | 1,301.02 | | 1,167.94 | | 357.00 | | | 11.13- | | | 23,719.48 | | |
| | | | | | NSNFPPA: 418.41- | | NSNFPPA2: 418.41- | | | | | | | | |
| SEBREE MINING-STEAMPORT | | | | | | | | | | | | | | | 205 KE* |
| | | | | | 7,577 | 7,577 | 3,235,103 | 57.39 | 57.39 | 46.56 | 90.00% | 94.00% | 84.00% | | 01 |
| | | | | | 8,127 | 8,127 | 2,984,160 | 54.64 | 54.64 | 50.57 | 90.00% | 93.00% | 82.00% | | 02 |
| | | | | | 7,867 | 7,867 | 3,078,044 | 52.66 | 52.66 | 48.82 | 90.00% | 93.00% | 84.00% | | 03 |
| | | | | | 7,984 | 7,984 | 3,153,100 | 54.85 | 54.85 | 48.57 | 90.00% | 94.00% | 85.00% | | 04 |
| | | | | | 7,839 | 7,839 | 2,950,380 | 50.59 | 50.59 | 49.88 | 90.00% | 93.00% | 84.00% | | 05 |
| | | | | | 7,773 | 7,773 | 2,181,320 | 38.98 | 38.98 | 59.41 | 90.00% | 92.00% | 74.00% | | 06 |
| 23327410 | 24860210 | 13:00 | 7/15 | | 6,466 | 6,466 | 1,532,800 | 31.86 | 31.86 | 67.32 | 90.00% | 97.00% | 72.00% | | 07 |
| YEAR TO DATE | | | | | 8,127 | 8,127 | 19,114,907 | 46.23 | 46.23 | 56.25 | | | | | |
| CURRENT | 104,281.05 | | 4,776.20 | | 5,676.22 | | .00 | | | | | | 112,653.47 | | |
| YEAR TO DATE | 996,634.03 | | 62,992.12 | | 55,461.69 | | .00 | | | 484.36- | | | 1,075,290.62 | | |
| | | | | | NSNFPPA: 19,898.61- | | NSNFPPA2: 19,898.61- | | | | | | | | |
| SOUTHWIRE COMPANY | | | | | | | | | | | | | | | 213 KE* |
| | | | | | 7,023 | 7,023 | 4,334,690 | 82.96 | 82.96 | 39.15 | 90.00% | 78.00% | 77.00% | | 01 |
| | | | | | 6,751 | 6,751 | 3,778,440 | 83.29 | 83.29 | 40.93 | 90.00% | 77.00% | 77.00% | | 02 |
| | | | | | 6,744 | 6,744 | 4,051,860 | 80.87 | 80.86 | 39.64 | 90.00% | 77.00% | 77.00% | | 03 |
| | | | | | 7,046 | 7,046 | 4,119,850 | 81.21 | 81.21 | 40.12 | 90.00% | 76.00% | 76.00% | | 04 |
| | | | | | 7,023 | 7,023 | 4,275,050 | 81.82 | 81.82 | 39.40 | 90.00% | 77.00% | 76.00% | | 05 |
| | | | | | 7,235 | 7,235 | 4,430,780 | 85.06 | 85.06 | 39.29 | 90.00% | 76.00% | 76.00% | | 06 |
| 48282690 | 52862400 | 23:30 | 7/09 | | 7,545 | 7,545 | 4,579,710 | 81.59 | 81.58 | 40.44 | 90.00% | 76.00% | 76.00% | | 07 |
| YEAR TO DATE | | | | | 7,545 | 7,545 | 29,570,380 | 77.03 | 77.03 | 41.03 | | | | | |
| CURRENT | 172,216.96 | | 14,270.38 | | 10,471.15 | | .00 | | | | | | 190,743.82 | | |
| YEAR TO DATE | 1,109,894.18 | | 97,434.65 | | 67,554.06 | | .00 | | | 1,447.19- | | | 1,213,317.35 | | |
| | | | | | NSNFPPA: 30,782.77- | | NSNFPPA2: 30,782.77- | | | | | | | | |

Big Rivers Electric Corporation
Case No. 2013-00199
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EBR106B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 7
 DATE 8/22/13

| SUBSTN | ... METER READ ... | | TIME | DAY | ... KW DEMAND ... | | KWH USED | ... L.F. % ... | | MILLS PER KWH | ... POWER FACTOR ... | | | MONTH |
|------------------------|--------------------|--------------|-------|------|-------------------|------------------|-------------|----------------|------------|---------------|----------------------|--------|--------------|------------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | ACTUAL | BILLED | | BASE | PEAK | AVE. | |
| TOTAL LINE | | | | | | | | | | | | | | |
| | | CHARGE | | | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | | TOTAL COST | | | | | |
| TYSON FOODS, INC. | | | | | | | | | | | | | | |
| | | | | | 10,873 | 10,873 | 6,234,180 | 77.06 | 77.06 | 42.73 | 90.00% | 91.00% | 93.00% | 128 KE* 01 |
| | | | | | 10,420 | 10,420 | 5,527,300 | 78.94 | 78.94 | 44.53 | 90.00% | 90.00% | 93.00% | 02 |
| | | | | | 10,478 | 10,478 | 5,648,650 | 72.56 | 72.56 | 44.16 | 90.00% | 90.00% | 93.00% | 03 |
| | | | | | 10,763 | 10,763 | 5,936,530 | 76.60 | 76.61 | 43.59 | 90.00% | 91.00% | 92.00% | 04 |
| | | | | | 11,048 | 11,048 | 6,314,620 | 76.82 | 76.82 | 42.76 | 90.00% | 90.00% | 91.00% | 05 |
| | | | | | 11,197 | 11,197 | 6,183,400 | 76.70 | 76.70 | 43.46 | 90.00% | 90.00% | 92.00% | 06 |
| | 80449540 | 87016400 | 15:30 | 7/17 | 11,534 | 11,534 | 6,566,860 | 76.52 | 76.53 | 43.74 | 90.00% | 90.00% | 92.00% | 07 |
| YEAR TO DATE | | | | | 11,534 | 11,534 | 42,411,540 | 72.27 | 72.27 | 43.54 | | | | |
| CURRENT | | 260,276.50 | | | 20,462.34 | | 15,408.73 | | .00 | | | | 287,236.34 | |
| | | | | | NSNFPPA: | | 6,836.10- | NSNFPPA2: | 2,075.13- | | | | | |
| YEAR TO DATE | | 1,695,372.96 | | | 139,692.21 | | 99,889.52 | | .00 | | | | 1,846,653.87 | |
| | | | | | NSNFPPA: | | 44,150.41- | NSNFPPA2: | 44,150.41- | | | | | |
| VALLEY GRAIN | | | | | | | | | | | | | | |
| | | | | | 2,366 | 2,366 | 1,290,060 | 73.28 | 73.29 | 46.02 | 90.00% | 80.00% | 80.00% | 096 KE* 01 |
| | | | | | 2,375 | 2,375 | 967,614 | 60.63 | 60.63 | 54.15 | 90.00% | 80.00% | 79.00% | 02 |
| | | | | | 2,270 | 2,270 | 1,081,930 | 64.14 | 64.15 | 49.92 | 90.00% | 79.00% | 79.00% | 03 |
| | | | | | 2,101 | 2,101 | 1,001,460 | 66.22 | 66.20 | 50.16 | 90.00% | 79.00% | 78.00% | 04 |
| | | | | | 2,035 | 2,035 | 1,089,260 | 71.95 | 71.94 | 46.87 | 90.00% | 80.00% | 78.00% | 05 |
| | | | | | 1,981 | 1,981 | 1,007,660 | 70.65 | 70.65 | 48.86 | 90.00% | 78.00% | 77.00% | 06 |
| | 77585680 | 78602900 | 30 | 7/03 | 2,012 | 2,012 | 1,017,220 | 67.95 | 67.95 | 49.98 | 90.00% | 78.00% | 77.00% | 07 |
| YEAR TO DATE | | | | | 2,375 | 2,375 | 7,455,204 | 61.69 | 61.69 | 49.24 | | | | |
| CURRENT | | 43,281.86 | | | 3,169.66 | | 2,511.03 | | 3,255.00 | | | | 50,837.18 | |
| | | | | | NSNFPPA: | | 1,058.93- | NSNFPPA2: | 321.44- | | | | | |
| YEAR TO DATE | | 317,977.70 | | | 24,430.93 | | 18,495.62 | | 21,745.50 | | | | 367,128.01 | |
| | | | | | NSNFPPA: | | 7,760.87- | NSNFPPA2: | 7,760.87- | | | | | |

Big Rivers Electric Corporation
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EBR106B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 8
 DATE 8/22/13

| SUBSTN | METER READ | | TIME DAY | KW DEMAND | | KWH USED | L.F. % | | MILLS PER KWH | POWER FACTOR | | | MONTH |
|----------------------|---------------|---------|----------|--------------|-----------------|-------------|-------------|--------|---------------|--------------|------|---------------|-------|
| | PREVIOUS | PRESENT | | ACTUAL | BILLED | | ACTUAL | BILLED | | BASE | PEAK | AVE. | |
|TOTAL LINE..... | | | | | | | | | | | | | |
| | CHARGE | | | FUEL ADJ | ENVIR.SURCHARGE | | P/F PENALTY | | | | | TOTAL COST | |
| TOTAL CURRENT | | | | 194,292 | 162,316 | 100,834,880 | 72.49 | 71.66 | 42.64 | | | | |
| TOTAL YTD | | | | 1,297,485 | 1,049,940 | 682,528,200 | 74.89 | 74.01 | 41.60 | | | | |
| YTD PEAK | | | | 194,292 | 162,316 | | | | | | | | |
| TOTAL CURRENT | 3,656,518.12 | | | 292,264.77 | 218,747.59 | | 6,930.00 | | | | | 4,047,180.87 | |
| TOTAL YTD | 24,982,744.06 | | | 1,972,044.41 | 1,391,181.40 | | 41,979.00 | | | | | 27,146,549.63 | |
| | | | | NSNFPPA: | 97,640.44- | | NSNFPPA2: | | 29,639.17- | | | | |
| | | | | NSNFPPA: | 620,699.62- | | NSNFPPA2: | | 620,699.62- | | | | |

*** NOTE - LOAD FACTOR AND MILLS PER KWH CALCULATIONS DO NOT INCLUDE WILLAMETTE VALUES ***

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-141

EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
P O W E R C O S T S U M M A R Y

PAGE 9
DATE 8/22/13

| SUBSTN | ... METER READ ... | | TIME | DAY | ... KW DEMAND ... | | KWH USED | ... L.F.% ... | | MILLS PER KWH | ... POWER FACTOR ... | | | MONTH |
|------------------------------|--------------------|---------|------|-----|-------------------|------------------|-------------|---------------|------------|---------------|----------------------|--------|--------|------------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | ACTUAL | BILLED | | BASE | PEAK | AVE. | |
| TOTAL LINE | | | | | | | | | | | | | | |
| | | CHARGE | | | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | | | | | | | TOTAL COST |
| SHELL OIL | | | | | | | | | | | | | | |
| | | | | | 1,922 | 1,922 | 433,980 | 30.34 | 30.35 | 65.44 | 90.00% | 92.00% | 91.00% | 130 JP |
| | | | | | 1,912 | 1,912 | 292,853 | 22.80 | 22.79 | 87.49 | 90.00% | 92.00% | 91.00% | 01 |
| | | | | | 1,912 | 1,912 | 451,820 | 31.81 | 31.80 | 63.38 | 90.00% | 92.00% | 91.00% | 02 |
| | | | | | 1,901 | 1,901 | 442,010 | 32.30 | 32.29 | 64.11 | 90.00% | 92.00% | 91.00% | 03 |
| | | | | | 1,933 | 1,933 | 637,250 | 44.31 | 44.31 | 50.80 | 90.00% | 92.00% | 91.00% | 04 |
| | | | | | 1,901 | 1,901 | 649,330 | 47.45 | 47.44 | 49.69 | 90.00% | 92.00% | 91.00% | 05 |
| | | | | | 1,922 | 1,922 | 583,740 | 40.81 | 40.82 | 54.52 | 90.00% | 92.00% | 91.00% | 06 |
| 10680900 11264640 22:00 7/09 | | | | | 1,933 | 1,933 | 3,490,983 | 35.50 | 35.50 | 59.42 | | | | 07 |
| YEAR TO DATE | | | | | | | | | | | | | | |
| CURRENT | | | | | 28,933.63 | 1,818.93 | 1,863.86 | | .00 | | | | | 31,824.29 |
| YEAR TO DATE | | | | | 191,031.98 | 11,592.51 | 12,095.08 | | .00 | 184.46- | | | | 207,451.37 |
| | | | | | | NSNFPPA: | 607.67- | NSNFPPA2: | | | | | | |
| | | | | | | NSNFPPA: | 3,634.10- | NSNFPPA2: | 3,634.10- | | | | | |
| ACCURIDE CORPORATION | | | | | | | | | | | | | | |
| | | | | | 4,891 | 4,891 | 2,067,620 | 56.82 | 56.82 | 43.78 | 90.00% | 98.00% | 78.00% | 088 KE |
| | | | | | 4,876 | 4,876 | 1,846,120 | 56.34 | 56.34 | 46.67 | 90.00% | 97.00% | 77.00% | 01 |
| | | | | | 5,035 | 5,035 | 2,008,880 | 53.70 | 53.70 | 45.27 | 90.00% | 96.00% | 77.00% | 02 |
| | | | | | 5,216 | 5,216 | 2,218,670 | 59.07 | 59.08 | 43.63 | 90.00% | 96.00% | 84.00% | 03 |
| | | | | | 5,080 | 5,080 | 2,361,538 | 62.48 | 62.48 | 41.54 | 90.00% | 97.00% | 84.00% | 04 |
| | | | | | 5,065 | 5,065 | 2,031,670 | 55.71 | 55.71 | 45.13 | 90.00% | 96.00% | 79.00% | 05 |
| | | | | | 5,322 | 5,322 | 2,241,260 | 56.60 | 56.60 | 44.88 | 90.00% | 96.00% | 83.00% | 06 |
| 94907500 97148760 11:30 7/18 | | | | | 5,322 | 5,322 | 14,775,758 | 54.57 | 54.57 | 44.31 | | | | 07 |
| YEAR TO DATE | | | | | | | | | | | | | | |
| CURRENT | | | | | 90,626.10 | 6,983.77 | 6,022.46 | | .00 | | | | | 100,590.94 |
| YEAR TO DATE | | | | | 597,159.87 | 48,759.90 | 39,622.51 | | .00 | 708.24- | | | | 654,779.16 |
| | | | | | | NSNFPPA: | 2,333.15- | NSNFPPA2: | | | | | | |
| | | | | | | NSNFPPA: | 15,381.56- | NSNFPPA2: | 15,381.56- | | | | | |
| ALCOA, INC. - PO 190035471 | | | | | | | | | | | | | | |
| | | | | | 194 | 194 | 119,180 | 82.57 | 82.57 | 45.90 | 90.00% | 57.00% | 50.00% | 192 KE |
| | | | | | 184 | 184 | 96,410 | 78.06 | 77.97 | 52.92 | 90.00% | 53.00% | 47.00% | 01 |
| | | | | | 169 | 169 | 97,030 | 77.37 | 77.27 | 51.85 | 90.00% | 50.00% | 45.00% | 02 |
| | | | | | 176 | 176 | 87,150 | 68.62 | 68.77 | 66.66 | 90.00% | 40.00% | 41.00% | 03 |
| | | | | | 139 | 139 | 82,950 | 80.44 | 80.21 | 59.58 | 90.00% | 39.00% | 40.00% | 04 |
| | | | | | 116 | 116 | 79,050 | 94.81 | 94.65 | 53.62 | 90.00% | 40.00% | 40.00% | 05 |
| | | | | | 116 | 116 | 80,390 | 93.31 | 93.15 | 54.04 | 90.00% | 40.00% | 39.00% | 06 |
| 10170990 10251380 4:00 7/01 | | | | | 194 | 194 | 642,160 | 65.06 | 65.06 | 54.41 | | | | 07 |
| YEAR TO DATE | | | | | | | | | | | | | | |
| CURRENT | | | | | 2,505.62 | 250.50 | 174.75 | | 1,522.50 | | | | | 4,344.28 |
| YEAR TO DATE | | | | | 21,493.03 | 2,097.95 | 1,479.68 | | 11,203.50 | 25.40- | | | | 34,937.18 |
| | | | | | | NSNFPPA: | 83.69- | NSNFPPA2: | | | | | | |
| | | | | | | NSNFPPA: | 668.49- | NSNFPPA2: | 668.49- | | | | | |

Big Rivers Electric Corporation
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EBR106B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 10
 DATE 8/22/13

| SUBSTN | ...METER READ... | | | KW DEMAND ACTUAL | BILLED | KWH USED | ...L.F.%... | | MILLS PER KWH | ...POWER FACTOR... | | | MONTH |
|---------------------------------|-------------------------------|------------|------------------|---------------------|-------------|----------|---------------|---------------|------------------|--------------------|------|------|--------|
| | PREVIOUS | PRESENT | TIME DAY | | | | ACTUAL BILLED | ACTUAL BILLED | | BASE | PEAK | AVE. | |
|TOTAL LINE..... | | | | | | | | | | | | | |
| | CHARGE | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | TOTAL COST | | | | | | | | |
| ALERIS ROLLED PRODUCTS, INC. | | | | | | | | | | | | | 100 KE |
| | | 28,180 | 28,180 | 14,864,040 | 70.90 | 70.90 | 38.85 | 90.00% | 88.00% | 88.00% | | | 01 |
| | | 27,594 | 27,594 | 14,142,520 | 76.27 | 76.27 | 39.43 | 90.00% | 94.00% | 90.00% | | | 02 |
| | | 28,690 | 28,690 | 16,101,490 | 75.53 | 75.53 | 37.66 | 90.00% | 83.00% | 90.00% | | | 03 |
| | | 27,537 | 27,537 | 13,736,690 | 69.28 | 69.28 | 40.00 | 90.00% | 93.00% | 94.00% | | | 04 |
| | | 27,367 | 27,367 | 15,787,060 | 77.54 | 77.54 | 37.15 | 90.00% | 82.00% | 87.00% | | | 05 |
| | | 27,084 | 27,084 | 15,397,440 | 78.96 | 78.96 | 37.42 | 90.00% | 82.00% | 86.00% | | | 06 |
| | 107584240 122866650 2:00 7/08 | 28,010 | 28,010 | 15,282,410 | 73.34 | 73.33 | 39.19 | 90.00% | 95.00% | 91.00% | | | 07 |
| YEAR TO DATE | | 28,690 | 28,690 | 105,311,650 | 72.14 | 72.14 | 38.48 | | | | | | |
| CURRENT | 535,579.29 | 47,619.99 | | 36,502.90 | | .00 | | | | 598,963.95 | | | |
| | | NSNFPPA: | | 15,908.99- | NSNFPPA2: | | 4,829.24- | | | | | | |
| YEAR TO DATE | 3,672,530.16 | 348,510.95 | | 250,563.36 | | .00 | | | | 4,052,345.61 | | | |
| | | NSNFPPA: | 109,629.43- | NSNFPPA2: | 109,629.43- | | | | | | | | |
| AMG ALUMINUM NORTH AMERICA, LLC | | | | | | | | | | | | | 066 KE |
| | | 1,953 | 2,001 | 824,030 | 56.72 | 55.35 | 44.44 | 90.00% | 95.00% | 93.00% | | | 01 |
| | | 1,903 | 2,001 | 735,920 | 57.55 | 54.73 | 47.49 | 90.00% | 89.00% | 91.00% | | | 02 |
| | | 2,145 | 2,145 | 779,570 | 48.92 | 48.91 | 47.84 | 90.00% | 96.00% | 91.00% | | | 03 |
| | | 2,032 | 2,032 | 647,150 | 44.22 | 44.23 | 51.92 | 90.00% | 92.00% | 90.00% | | | 04 |
| | | 1,856 | 2,001 | 612,910 | 44.40 | 41.17 | 53.23 | 90.00% | 84.00% | 89.00% | | | 05 |
| | | 1,918 | 2,001 | 605,350 | 43.83 | 42.02 | 53.66 | 90.00% | 89.00% | 90.00% | | | 06 |
| | 55519850 56163510 9:00 7/09 | 1,994 | 2,001 | 643,660 | 43.40 | 43.24 | 53.99 | 90.00% | 86.00% | 89.00% | | | 07 |
| YEAR TO DATE | | 2,145 | 2,145 | 4,848,590 | 44.43 | 44.43 | 49.98 | | | | | | |
| CURRENT | 30,728.07 | 2,005.64 | | 1,990.00 | | 903.00 | | | | 34,753.26 | | | |
| | | NSNFPPA: | | 670.05- | NSNFPPA2: | | 203.40- | | | | | | |
| YEAR TO DATE | 221,202.89 | 15,913.60 | | 14,389.49 | | 903.00 | | | | 242,314.22 | | | |
| | | NSNFPPA: | 5,047.38- | NSNFPPA2: | 5,047.38- | | | | | | | | |
| ARMSTRONG - DOCK | | | | | | | | | | | | | 212 KE |
| | | 8,669 | 8,669 | 3,790,160 | 58.77 | 58.76 | 45.14 | 90.00% | 94.00% | 96.00% | | | 01 |
| | | 9,072 | 9,072 | 3,628,780 | 59.52 | 59.52 | 46.98 | 90.00% | 94.00% | 96.00% | | | 02 |
| | | 10,080 | 10,080 | 4,411,280 | 58.90 | 58.90 | 44.53 | 90.00% | 92.00% | 95.00% | | | 03 |
| | | 9,639 | 9,639 | 3,887,410 | 56.01 | 56.01 | 47.19 | 90.00% | 92.00% | 94.00% | | | 04 |
| | | 9,293 | 9,293 | 3,919,200 | 56.69 | 56.69 | 45.98 | 90.00% | 92.00% | 94.00% | | | 05 |
| | | 9,173 | 9,173 | 3,621,720 | 54.84 | 54.84 | 48.49 | 90.00% | 94.00% | 94.00% | | | 06 |
| | 94141830 97794720 17:00 7/18 | 9,419 | 9,419 | 3,652,890 | 52.13 | 52.13 | 49.41 | 90.00% | 96.00% | 94.00% | | | 07 |
| YEAR TO DATE | | 10,080 | 10,080 | 26,911,440 | 52.47 | 52.47 | 46.74 | | | | | | |
| CURRENT | 163,820.48 | 11,382.41 | | 10,226.17 | | .00 | | | | 180,472.09 | | | |
| | | NSNFPPA: | | 3,802.66- | NSNFPPA2: | | 1,154.31- | | | | | | |
| YEAR TO DATE | 1,152,173.68 | 89,082.29 | | 72,496.57 | | .00 | | | | 1,257,722.92 | | | |
| | | NSNFPPA: | 28,014.81- | NSNFPPA2: | 28,014.81- | | | | | | | | |

Big Rivers Electric Corporation
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EBR106B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 11
 DATE 8/22/13

| SUBSTN | METER READ | | | | KW DEMAND | ACTUAL | BILLED | KWH USED | L.F. % | | MILLS PER KWH | POWER FACTOR | | | MONTH |
|-------------------------|------------------------------|-----------|------------------|-------------|-----------|--------|------------|----------|--------|--------|---------------|--------------|------|--------|-------|
| | PREVIOUS | PRESENT | TIME | DAY | | | | | ACTUAL | BILLED | | BASE | PEAK | AVE. | |
|TOTAL LINE..... | | | | | | | | | | | | | | | |
| | CHARGE | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | | | | | | | TOTAL COST | | | | |
| ARMSTRONG - EQUALITY | | | | | | | | | | | | | | 215 KE | |
| | | 3,200 | 3,200 | 1,557,400 | 65.41 | 65.41 | 42.78 | 90.00% | 96.00% | 93.00% | | | | 01 | |
| | | 3,137 | 3,137 | 1,391,500 | 66.00 | 66.01 | 45.14 | 90.00% | 95.00% | 93.00% | | | | 02 | |
| | | 3,011 | 3,011 | 1,552,800 | 69.40 | 69.41 | 41.61 | 90.00% | 94.00% | 92.00% | | | | 03 | |
| | | 3,251 | 3,251 | 1,507,800 | 64.42 | 64.42 | 43.97 | 90.00% | 95.00% | 92.00% | | | | 04 | |
| | | 3,087 | 3,087 | 1,438,810 | 62.65 | 62.65 | 43.93 | 90.00% | 96.00% | 91.00% | | | | 05 | |
| | | 3,156 | 3,156 | 1,446,710 | 63.66 | 63.67 | 43.97 | 90.00% | 94.00% | 92.00% | | | | 06 | |
| | 45361890 46776630 21:30 7/10 | 3,081 | 3,081 | 1,414,740 | 61.72 | 61.72 | 45.39 | 90.00% | 95.00% | 91.00% | | | | 07 | |
| YEAR TO DATE | | 3,251 | 3,251 | 10,309,760 | 62.33 | 62.33 | 43.78 | | | | | | | | |
| CURRENT | 58,084.64 | 4,408.33 | | 3,648.12 | | .00 | | | | | 64,221.29 | | | | |
| YEAR TO DATE | 412,750.31 | 33,986.76 | | 1,472.74- | NSNFPPA2: | .00 | 447.06- | | | | 451,391.44 | | | | |
| | | | NSNFPPA: | 10,732.45- | NSNFPPA2: | | 10,732.45- | | | | | | | | |
| ARMSTRONG - LEWIS CREEK | | | | | | | | | | | | | | 217 KE | |
| | | 1,178 | 1,178 | 495,430 | 56.52 | 56.53 | 52.57 | 90.00% | 70.00% | 76.00% | | | | 01 | |
| | | 1,222 | 1,222 | 485,720 | 59.14 | 59.15 | 48.07 | 90.00% | 98.00% | 87.00% | | | | 02 | |
| | | 1,329 | 1,329 | 483,260 | 48.93 | 48.94 | 52.14 | 90.00% | 95.00% | 95.00% | | | | 03 | |
| | | 1,481 | 1,481 | 599,210 | 56.21 | 56.19 | 46.16 | 90.00% | 94.00% | 96.00% | | | | 04 | |
| | | 2,098 | 3,500 | 665,400 | 42.63 | 25.55 | 76.35 | 90.00% | 87.00% | 91.00% | | | | 05 | |
| | | 2,249 | 3,500 | 741,460 | 45.79 | 29.42 | 71.26 | 90.00% | 87.00% | 90.00% | | | | 06 | |
| | 9258220 10110910 14:00 7/31 | 2,268 | 3,500 | 852,690 | 50.53 | 32.75 | 65.74 | 90.00% | 88.00% | 90.00% | | | | 07 | |
| YEAR TO DATE | | 2,268 | 3,500 | 4,323,170 | 37.46 | 24.28 | 60.59 | | | | | | | | |
| CURRENT | 51,454.78 | 2,656.98 | | 3,104.20 | | .00 | | | | | 56,058.86 | | | | |
| YEAR TO DATE | 238,613.94 | 14,307.37 | | 887.65- | NSNFPPA2: | .00 | 269.45- | | | | 261,947.57 | | | | |
| | | | NSNFPPA: | 4,500.41- | NSNFPPA2: | | 4,500.41- | | | | | | | | |
| ARMSTRONG - MIDWAY | | | | | | | | | | | | | | 211 KE | |
| | | 4,870 | 4,870 | 2,549,430 | 70.36 | 70.36 | 39.00 | 90.00% | 94.00% | 91.00% | | | | 01 | |
| | | 5,037 | 5,037 | 2,525,210 | 74.61 | 74.60 | 39.88 | 90.00% | 93.00% | 92.00% | | | | 02 | |
| | | 5,049 | 5,049 | 2,694,340 | 71.82 | 71.82 | 38.62 | 90.00% | 94.00% | 91.00% | | | | 03 | |
| | | 5,002 | 5,002 | 2,513,500 | 69.79 | 69.79 | 39.84 | 90.00% | 93.00% | 89.00% | | | | 04 | |
| | | 4,750 | 4,750 | 2,440,293 | 69.05 | 69.05 | 39.38 | 90.00% | 93.00% | 87.00% | | | | 05 | |
| | | 4,716 | 4,716 | 2,436,780 | 71.77 | 71.76 | 39.27 | 90.00% | 90.00% | 86.00% | | | | 06 | |
| | 8347420 10651600 21:00 7/15 | 4,649 | 4,649 | 2,304,180 | 66.61 | 66.62 | 41.13 | 90.00% | 90.00% | 88.00% | | | | 07 | |
| YEAR TO DATE | | 5,049 | 5,049 | 17,463,733 | 67.98 | 67.98 | 39.56 | | | | | | | | |
| CURRENT | 84,984.56 | 7,179.82 | | 5,738.33 | | .00 | | | | | 94,775.94 | | | | |
| YEAR TO DATE | 626,990.96 | 57,713.68 | | 2,398.65- | NSNFPPA2: | .00 | 728.12- | | | | 690,908.35 | | | | |
| | | | NSNFPPA: | 18,179.75- | NSNFPPA2: | | 18,179.75- | | | | | | | | |

Big Rivers Electric Corporation
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EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

PAGE 12
DATE 8/22/13

| SUBSTN | METER READ | | | KW DEMAND ACTUAL | BILLED | KWH USED | L.F.% | | MILLS PER KWH | POWER FACTOR | | | MONTH | |
|-------------------------------------|------------|--------------|------------|--|-------------|-------------|---------------|--------------|------------------|--------------|--------|--------|--------|--------|
| | PREVIOUS | PRESENT | TIME DAY | | | | ACTUAL BILLED | BASE | | PEAK | AVE. | | | |
|TOTAL LINE..... | | | | | | | | | | | | | | |
| | | CHARGE | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | | | | TOTAL COST | | | | | |
| DOMTAR PAPER CO LLC | | | | | | | | | | | | | | |
| | | | | *** KWH USED MAY NOT BE KWH BILLED *** | | | | | | | | | | 108 KE |
| | | | | 64,498 | 15,000 | 29,429,310 | | | | | | | 01 | |
| | | | | 49,507 | 15,000 | 25,146,660 | | | | | | | 02 | |
| | | | | 46,116 | 15,000 | 28,807,420 | | | | | | | 03 | |
| | | | | 56,074 | 15,000 | 28,751,410 | | | | | | | 04 | |
| | | | | 69,466 | 35,000 | 30,132,340 | | | | | | | 05 | |
| | | | | 69,012 | 35,000 | 31,256,240 | | | | | | | 06 | |
| 155536300 188493200 3:00 7/11 | | | | 68,429 | 35,000 | 32,956,900 | | | | | | | 07 | |
| YEAR TO DATE | | | | 69,466 | 35,000 | 206,480,280 | | | | | | | | |
| CURRENT | | 1,042,807.91 | 80,756.99 | 55,015.00 | | .00 | | 1,143,410.70 | | | | | | |
| | | | | NSNFPPA: | | 26,979.47- | | NSNFPPA2: | | 8,189.73- | | | | |
| YEAR TO DATE | | 6,872,778.57 | 401,668.12 | 254,801.39 | | .00 | | 7,278,980.62 | | | | | | |
| | | | | NSNFPPA: | | 125,133.73- | | NSNFPPA2: | | 125,133.73- | | | | |
| DOTIKI #3 - WEBSTER COUNTY COAL CO. | | | | | | | | | | | | | | |
| | | | | 187 | 187 | 77,850 | 55.90 | 55.96 | 44.70 | 90.00% | 88.00% | 77.00% | 188 KE | |
| | | | | 177 | 177 | 36,730 | 30.85 | 30.88 | 73.83 | 90.00% | 83.00% | 71.00% | 01 | |
| | | | | 94 | 94 | 35,800 | 51.48 | 51.26 | 46.63 | 90.00% | 89.00% | 67.00% | 02 | |
| | | | | 181 | 181 | 83,200 | 63.70 | 63.84 | 43.47 | 90.00% | 84.00% | 75.00% | 03 | |
| | | | | 173 | 173 | 70,630 | 54.94 | 54.87 | 46.50 | 90.00% | 83.00% | 73.00% | 04 | |
| | | | | 193 | 193 | 77,040 | 55.44 | 55.44 | 48.16 | 90.00% | 81.00% | 74.00% | 05 | |
| 40750850 40829310 14:00 7/18 | | | | 189 | 189 | 78,460 | 55.92 | 55.80 | 48.50 | 90.00% | 80.00% | 72.00% | 06 | |
| YEAR TO DATE | | | | 193 | 193 | 459,710 | 46.81 | 46.81 | 48.46 | | | | 07 | |
| CURRENT | | 3,202.95 | 244.48 | 212.31 | | 252.00 | | 3,805.27 | | | | | | |
| | | | | NSNFPPA: | | 81.68- | | NSNFPPA2: | | 24.79- | | | | |
| YEAR TO DATE | | 19,520.95 | 1,492.78 | 1,287.12 | | 934.50 | | 22,278.21 | | | | | | |
| | | | | NSNFPPA: | | 478.57- | | NSNFPPA2: | | 478.57- | | | | |
| ELK CREEK MINE - HOPKINS CO COAL | | | | | | | | | | | | | | |
| | | | | 139 | 750 | 36,540 | 35.44 | 6.55 | 234.46 | 90.00% | 48.00% | 35.00% | 218 KE | |
| | | | | 208 | 750 | 53,080 | 37.98 | 10.53 | 167.30 | 90.00% | 46.00% | 48.00% | 01 | |
| | | | | 296 | 750 | 73,350 | 33.33 | 13.16 | 126.30 | 90.00% | 55.00% | 49.00% | 02 | |
| | | | | 737 | 750 | 173,670 | 32.72 | 32.16 | 67.85 | 90.00% | 82.00% | 68.00% | 03 | |
| | | | | 554 | 750 | 402,050 | 97.47 | 72.05 | 38.53 | 90.00% | 82.00% | 82.00% | 04 | |
| | | | | 617 | 750 | 388,850 | 87.47 | 72.01 | 39.19 | 90.00% | 80.00% | 82.00% | 05 | |
| 1132210 1535080 30 7/15 | | | | 554 | 750 | 402,870 | 97.67 | 72.20 | 39.49 | 90.00% | 82.00% | 82.00% | 06 | |
| YEAR TO DATE | | | | 737 | 750 | 1,530,410 | 40.81 | 40.11 | 55.63 | | | | 07 | |
| CURRENT | | 14,230.51 | 1,255.34 | 968.67 | | .00 | | 15,907.82 | | | | | | |
| | | | | NSNFPPA: | | 419.39- | | NSNFPPA2: | | 127.31- | | | | |
| YEAR TO DATE | | 77,553.61 | 5,182.07 | 4,962.93 | | 619.50 | | 85,131.79 | | | | | | |
| | | | | NSNFPPA: | | 1,593.16- | | NSNFPPA2: | | 1,593.16- | | | | |

Big Rivers Electric Corporation
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EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

PAGE 13
DATE 8/22/13

| SUBSTN | METER READ | | | KW DEMAND ACTUAL | BILLED | KWH USED | L.F.% | | MILLS PER KWH | POWER FACTOR | | | MONTH |
|--------------------------------------|--------------|----------|----------|---------------------|--------|-------------|---------------|------------|------------------|--------------|---------|--------------|--------|
| | PREVIOUS | PRESENT | TIME DAY | | | | ACTUAL BILLED | PER KWH | | BASE | PEAK | AVE. | |
|TOTAL LINE..... | | | | | | | | | | | | | |
| CHARGE | | FUEL ADJ | | ENVIR. SURCHARGE | | P/F PENALTY | | TOTAL COST | | | | | |
| HOPKINS CO COAL, LLC. | | | | | | | | | | | | | |
| | | | | 416 | 416 | 170,540 | 55.13 | 55.10 | 44.55 | 90.00% | 99.00% | 94.00% | 091 KE |
| | | | | 422 | 422 | 173,570 | 61.18 | 61.21 | 44.47 | 90.00% | 97.00% | 94.00% | 01 |
| | | | | 416 | 416 | 177,620 | 57.49 | 57.47 | 43.54 | 90.00% | 97.00% | 93.00% | 02 |
| | | | | 416 | 416 | 171,440 | 57.27 | 57.24 | 44.43 | 90.00% | 99.00% | 93.00% | 03 |
| | | | | 378 | 378 | 142,398 | 50.63 | 50.63 | 46.82 | 90.00% | 95.00% | 90.00% | 04 |
| | | | | 365 | 365 | 108,060 | 41.07 | 41.12 | 54.42 | 90.00% | 95.00% | 85.00% | 05 |
| | | | | 95 | 100 | 50,600 | 71.89 | 68.01 | 40.72 | 90.00% | 100.00% | 80.00% | 06 |
| 15552110 | 15602710 | 10:30 | 7/08 | 422 | 422 | 994,228 | 46.30 | 46.30 | 45.54 | | | | 07 |
| YEAR TO DATE | | | | | | | | | | | | | |
| CURRENT | 1,846.53 | | | 157.67 | | 124.86 | | .00 | | | | 2,060.40 | |
| YEAR TO DATE | 41,326.05 | | | 3,284.85 | | 2,733.23 | | .00 | 15.99- | | | 45,274.15 | |
| | | | | NSNFPPA: | | 52.67- | | | | | | | |
| | | | | | | NSNFPPA2: | | | | | | | |
| | | | | | | 1,034.99- | | | 1,034.99- | | | | |
| KIMBERLY-CLARK CORPORATION | | | | | | | | | | | | | |
| | | | | 37,886 | 37,886 | 26,930,250 | 95.54 | 95.54 | 33.71 | 90.00% | 91.00% | 92.00% | 120 KE |
| | | | | 37,714 | 37,714 | 24,011,120 | 94.74 | 94.74 | 35.43 | 90.00% | 91.00% | 91.00% | 01 |
| | | | | 38,059 | 38,059 | 26,699,800 | 94.42 | 94.42 | 33.92 | 90.00% | 91.00% | 91.00% | 02 |
| | | | | 38,059 | 38,059 | 25,356,830 | 92.53 | 92.53 | 34.71 | 90.00% | 91.00% | 92.00% | 03 |
| | | | | 37,800 | 37,800 | 23,914,540 | 85.03 | 85.03 | 35.55 | 90.00% | 91.00% | 91.00% | 04 |
| | | | | 38,189 | 38,189 | 26,349,550 | 95.83 | 95.83 | 34.17 | 90.00% | 91.00% | 92.00% | 05 |
| | | | | 38,578 | 38,578 | 25,702,700 | 89.55 | 89.55 | 35.71 | 90.00% | 91.00% | 91.00% | 06 |
| 49664230 | 75366930 | 7:30 | 7/04 | 38,578 | 38,578 | 178,964,790 | 91.18 | 91.18 | 34.71 | | | | 07 |
| YEAR TO DATE | | | | | | | | | | | | | |
| CURRENT | 815,897.43 | | | 80,089.61 | | 56,691.45 | | .00 | | | | 917,799.93 | |
| YEAR TO DATE | 5,604,035.74 | | | 589,836.39 | | 391,065.86 | | .00 | 8,122.05- | | | 6,212,333.29 | |
| | | | | NSNFPPA: | | 26,756.51- | | | | | | | |
| | | | | | | NSNFPPA2: | | | | | | | |
| | | | | | | 186,302.35- | | | 186,302.35- | | | | |
| Pennyrile Energy, LLC Riveredge Mine | | | | | | | | | | | | | |
| | | | | 277 | 290 | 2,690 | 1.30 | 1.25 | 1,518.83 | 90.00% | 65.00% | 34.00% | 219 KE |
| | | | | 277 | 290 | 2,690 | 1.31 | 1.25 | 518.83 | | | | 07 |
| 2690 | 11:00 | 7/30 | | | | | | | | | | | |
| YEAR TO DATE | | | | | | | | | | | | | |
| CURRENT | 2,930.39 | | | 8.38 | | 163.52 | | 987.00 | | | | 4,085.64 | |
| YEAR TO DATE | 2,932.34 | | | 8.38 | | 163.52 | | 987.00 | .85- | | | 4,085.64 | |
| | | | | NSNFPPA: | | 2.80- | | | | | | | |
| | | | | | | NSNFPPA2: | | | | | | | |
| | | | | | | 2.80- | | | 2.80- | | | | |
| PATRIOT COAL LP | | | | | | | | | | | | | |
| | | | | 1,877 | 3,300 | 546,110 | 39.10 | 22.24 | 82.39 | 90.00% | 80.00% | 35.00% | 095 KE |
| | | | | 595 | 3,300 | 182,530 | 45.62 | 8.23 | 208.77 | 90.00% | 31.00% | 15.00% | 01 |
| YEAR TO DATE | | | | 1,877 | 3,300 | 728,640 | 27.41 | 15.59 | 114.05 | | | | 02 |
| CURRENT | .00 | | | .00 | | .00 | | .00 | | | | .00 | |
| YEAR TO DATE | 77,860.18 | | | 1,993.93 | | 4,762.62 | | .00 | .00 | | | 83,099.71 | |
| | | | | NSNFPPA: | | .00 | | | | | | | |
| | | | | | | NSNFPPA2: | | | | | | | |

NSNFPPA: 758.51- NSNFPPA2: 758.51-

EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

PAGE 14
DATE 8/22/13

| SUBSTN | METER READ | | TIME | DAY | KW DEMAND ACTUAL | KWH USED | L.F. % | | MILLS PER KWH | POWER FACTOR | | | MONTH | |
|------------------------|------------|-----------|------------------|-------------|---------------------|-----------|--------|------------|------------------|--------------|--------|--------|--------|--------|
| | PREVIOUS | PRESENT | | | | | ACTUAL | BILLED | | BASE | PEAK | AVE. | | |
| -----TOTAL LINE----- | | | | | | | | | | | | | | |
| | CHARGE | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | TOTAL COST | | | | | | | | | |
| PRECOAT METALS CORP | | | | | | | | | | | | | 118 KE | |
| | | 3,576 | 3,576 | 1,454,100 | 54.66 | 54.65 | 44.76 | 90.00% | 90.00% | 84.00% | | | 01 | |
| | | 3,546 | 3,546 | 1,337,830 | 56.15 | 56.14 | 47.08 | 90.00% | 89.00% | 85.00% | | | 02 | |
| | | 3,568 | 3,568 | 1,324,300 | 49.95 | 49.95 | 47.56 | 90.00% | 89.00% | 82.00% | | | 03 | |
| | | 3,561 | 3,561 | 1,489,250 | 58.09 | 58.08 | 44.63 | 90.00% | 88.00% | 85.00% | | | 04 | |
| | | 3,523 | 3,523 | 1,429,250 | 54.53 | 54.53 | 44.83 | 90.00% | 91.00% | 84.00% | | | 05 | |
| | | 3,538 | 3,538 | 1,355,870 | 53.23 | 53.23 | 46.35 | 90.00% | 91.00% | 83.00% | | | 06 | |
| 119935230 | 121371870 | 17:30 | 7/26 | 3,644 | 3,644 | 1,436,640 | 52.99 | 52.99 | 46.58 | 90.00% | 90.00% | 82.00% | 07 | |
| YEAR TO DATE | | 3,644 | 3,644 | 9,827,240 | 53.00 | 53.00 | 45.93 | | | | | | | |
| CURRENT | 60,405.02 | 4,476.57 | | 3,988.56 | | .00 | | | | 66,920.63 | | | | |
| YEAR TO DATE | 410,652.76 | 32,354.46 | | 27,113.23 | | 1,690.50 | | 453.98- | | 451,350.63 | | | | |
| | | NSNFPPA: | | 1,495.54- | | NSNFPPA2: | | | | | | | | |
| SEBREE MINING-KMMC | | | | 10,230.16- | | NSNFPPA2: | | 10,230.16- | | | | | | 098 KE |
| | | 205 | 205 | 94,530 | 62.04 | 61.98 | 44.93 | 90.00% | 79.00% | 97.00% | | | 01 | |
| | | 208 | 208 | 82,670 | 59.14 | 59.14 | 45.36 | 90.00% | 97.00% | 76.00% | | | 02 | |
| | | 198 | 198 | 75,500 | 51.22 | 51.32 | 46.48 | 90.00% | 97.00% | 97.00% | | | 03 | |
| | | 180 | 180 | 45,630 | 35.29 | 35.21 | 60.37 | 90.00% | 97.00% | 93.00% | | | 04 | |
| | | 107 | 107 | 33,580 | 42.10 | 42.18 | 53.66 | 90.00% | 87.00% | 91.00% | | | 05 | |
| | | 117 | 117 | 34,800 | 41.45 | 41.31 | 54.26 | 90.00% | 90.00% | 91.00% | | | 06 | |
| 31112320 | 31147530 | 13:30 | 7/23 | 110 | 110 | 35,210 | 42.95 | 43.02 | 53.06 | 90.00% | 90.00% | 92.00% | 07 | |
| YEAR TO DATE | | 208 | 208 | 401,920 | 37.98 | 37.98 | 49.31 | | | | | | | |
| CURRENT | 1,686.50 | 109.71 | | 109.16 | | 10.50 | | | | 1,868.09 | | | | |
| YEAR TO DATE | 17,830.20 | 1,301.02 | | 1,167.94 | | 357.00 | | 11.13- | | 19,819.34 | | | | |
| | | NSNFPPA: | | 36.65- | | NSNFPPA2: | | | | | | | | |
| SEBREE MINING-STEAMPOR | | | | 418.41- | | NSNFPPA2: | | 418.41- | | | | | | 205 KE |
| | | 7,577 | 7,577 | 3,235,103 | 57.39 | 57.39 | 43.53 | 90.00% | 94.00% | 84.00% | | | 01 | |
| | | 8,127 | 8,127 | 2,984,160 | 54.64 | 54.64 | 47.53 | 90.00% | 93.00% | 82.00% | | | 02 | |
| | | 7,867 | 7,867 | 3,078,044 | 52.66 | 52.66 | 45.78 | 90.00% | 93.00% | 84.00% | | | 03 | |
| | | 7,984 | 7,984 | 3,153,100 | 54.85 | 54.85 | 45.53 | 90.00% | 94.00% | 85.00% | | | 04 | |
| | | 7,839 | 7,839 | 2,950,380 | 50.59 | 50.59 | 46.85 | 90.00% | 93.00% | 84.00% | | | 05 | |
| | | 7,773 | 7,773 | 2,181,320 | 38.98 | 38.98 | 56.37 | 90.00% | 92.00% | 74.00% | | | 06 | |
| 23327410 | 24860210 | 13:00 | 7/15 | 6,466 | 6,466 | 1,532,800 | 31.86 | 31.86 | 64.25 | 90.00% | 97.00% | 72.00% | 07 | |
| YEAR TO DATE | | 8,127 | 8,127 | 19,114,907 | 46.23 | 46.23 | 48.49 | | | | | | | |
| CURRENT | 90,110.60 | 4,776.20 | | 5,676.22 | | .00 | | | | 98,483.02 | | | | |
| YEAR TO DATE | 848,177.45 | 62,992.12 | | 55,461.69 | | .00 | | 484.36- | | 926,834.04 | | | | |
| | | NSNFPPA: | | 1,595.64- | | NSNFPPA2: | | | | | | | | |
| | | NSNFPPA: | | 19,898.61- | | NSNFPPA2: | | 19,898.61- | | | | | | |

EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

PAGE 15
DATE 8/22/13

| SUBSTN | METER READ | | TIME | DAY | KW DEMAND ACTUAL | BILLED | KWH USED | L.F.% | | MILLS PER KWH | POWER FACTOR | | | MONTH |
|----------------------|--------------|---------|------------|-----|---------------------|------------|-------------|-----------|------------|------------------|--------------|--------|--------------|--------|
| | PREVIOUS | PRESENT | | | | | | ACTUAL | BILLED | | BASE | PEAK | AVE. | |
| -----TOTAL LINE----- | | | | | | | | | | | | | | |
| | CHARGE | | FUEL ADJ | | ENVIR. SURCHARGE | | P/F PENALTY | | | | TOTAL COST | | | |
| SOUTHWIRE COMPANY | | | | | | | | | | | | | | |
| | | | | | 7,023 | 7,023 | 4,334,690 | 82.96 | 82.96 | 35.95 | 90.00% | 78.00% | 77.00% | 213 KE |
| | | | | | 6,751 | 6,751 | 3,778,440 | 83.29 | 83.29 | 37.70 | 90.00% | 77.00% | 77.00% | 01 |
| | | | | | 6,744 | 6,744 | 4,051,860 | 80.87 | 80.86 | 36.43 | 90.00% | 77.00% | 77.00% | 02 |
| | | | | | 7,046 | 7,046 | 4,119,850 | 81.21 | 81.21 | 36.91 | 90.00% | 76.00% | 76.00% | 03 |
| | | | | | 7,023 | 7,023 | 4,275,050 | 81.82 | 81.82 | 36.20 | 90.00% | 77.00% | 76.00% | 04 |
| | | | | | 7,235 | 7,235 | 4,430,780 | 85.06 | 85.06 | 36.09 | 90.00% | 76.00% | 76.00% | 05 |
| | | | | | 7,545 | 7,545 | 4,579,710 | 81.59 | 81.58 | 37.25 | 90.00% | 76.00% | 76.00% | 06 |
| 48282690 | 52862400 | 23:30 | 7/09 | | 7,545 | 7,545 | 29,570,380 | 77.03 | 77.03 | 36.63 | | | | 07 |
| YEAR TO DATE | | | | | | | | | | | | | | |
| CURRENT | 152,051.31 | | 14,270.38 | | 10,471.15 | | | .00 | | | | | 170,578.17 | |
| YEAR TO DATE | 979,747.61 | | 97,434.65 | | 67,554.06 | | | .00 | 1,447.19- | | | | 1,083,170.78 | |
| | | | | | NSNFPPA: | 30,782.77- | | NSNFPPA2: | 30,782.77- | | | | | |
| TYSON FOODS, INC. | | | | | | | | | | | | | | |
| | | | | | 10,873 | 10,873 | 6,234,180 | 77.06 | 77.06 | 37.25 | 90.00% | 91.00% | 93.00% | 128 KE |
| | | | | | 10,420 | 10,420 | 5,527,300 | 78.94 | 78.94 | 38.73 | 90.00% | 90.00% | 93.00% | 01 |
| | | | | | 10,478 | 10,478 | 5,648,650 | 72.56 | 72.56 | 38.43 | 90.00% | 90.00% | 93.00% | 02 |
| | | | | | 10,763 | 10,763 | 5,936,530 | 76.60 | 76.61 | 37.99 | 90.00% | 91.00% | 92.00% | 03 |
| | | | | | 11,048 | 11,048 | 6,314,620 | 76.82 | 76.82 | 37.32 | 90.00% | 90.00% | 91.00% | 04 |
| | | | | | 11,197 | 11,197 | 6,183,400 | 76.70 | 76.70 | 37.96 | 90.00% | 90.00% | 92.00% | 05 |
| | | | | | 11,534 | 11,534 | 6,566,860 | 76.52 | 76.53 | 38.39 | 90.00% | 90.00% | 92.00% | 06 |
| 80449540 | 87016400 | 15:30 | 7/17 | | 11,534 | 11,534 | 42,411,540 | 72.27 | 72.27 | 37.99 | | | | 07 |
| YEAR TO DATE | | | | | | | | | | | | | | |
| CURRENT | 225,139.43 | | 20,462.34 | | 15,408.73 | | | .00 | | | | | 252,099.27 | |
| YEAR TO DATE | 1,460,082.91 | | 139,692.21 | | 99,889.52 | | | .00 | 2,075.13- | | | | 1,611,363.82 | |
| | | | | | NSNFPPA: | 44,150.41- | | NSNFPPA2: | 44,150.41- | | | | | |
| VALLEY GRAIN | | | | | | | | | | | | | | |
| | | | | | 2,366 | 2,366 | 1,290,060 | 73.28 | 73.29 | 40.61 | 90.00% | 80.00% | 80.00% | 096 KE |
| | | | | | 2,375 | 2,375 | 967,614 | 60.63 | 60.63 | 47.93 | 90.00% | 80.00% | 79.00% | 01 |
| | | | | | 2,270 | 2,270 | 1,081,930 | 64.14 | 64.15 | 44.04 | 90.00% | 79.00% | 79.00% | 02 |
| | | | | | 2,101 | 2,101 | 1,001,460 | 66.22 | 66.20 | 44.05 | 90.00% | 79.00% | 78.00% | 03 |
| | | | | | 2,035 | 2,035 | 1,089,260 | 71.95 | 71.94 | 41.01 | 90.00% | 80.00% | 78.00% | 04 |
| | | | | | 1,981 | 1,981 | 1,007,660 | 70.65 | 70.65 | 42.77 | 90.00% | 78.00% | 77.00% | 05 |
| | | | | | 2,012 | 2,012 | 1,017,220 | 67.95 | 67.95 | 43.92 | 90.00% | 78.00% | 77.00% | 06 |
| 77585680 | 78602900 | 30 | 7/03 | | 2,375 | 2,375 | 7,455,204 | 61.69 | 61.69 | 43.32 | | | | 07 |
| YEAR TO DATE | | | | | | | | | | | | | | |
| CURRENT | 37,117.86 | | 3,169.66 | | 2,511.03 | | | 3,255.00 | | | | | 44,673.18 | |
| YEAR TO DATE | 273,825.70 | | 24,430.93 | | 18,495.62 | | | 21,745.50 | 321.44- | | | | 322,976.01 | |
| | | | | | NSNFPPA: | 7,760.87- | | NSNFPPA2: | 7,760.87- | | | | | |

**Big Rivers Electric
Case No. 2013-00199
Attachment for Response to AG 1-141**

EBR106B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

PAGE 16
DATE 8/22/13

| SUBSTN | ... METER READ ... | | | ... KW DEMAND ... | | KWH USED | ... L.F. % ... | | MILLS PER KWH | ... POWER FACTOR ... | | | MONTH |
|----------------------|--------------------|--------------|----------|-------------------|-------------|-------------|----------------|---------------|---------------|----------------------|------|---------------|-------|
| | PREVIOUS | PRESENT | TIME DAY | ACTUAL | BILLED | | ACTUAL | BILLED | | BASE | PEAK | AVE. | |
| -----TOTAL LINE----- | | | | | | | | | | | | | |
| | CHARGE | FUEL ADJ | | ENVIR. SURCHARGE | | P/F PENALTY | | | | | | TOTAL COST | |
| TOTAL CURRENT | | 196,214 | | 164,238 | 101,418,620 | 72.01 | 71.20 | 40.08 | | | | | |
| TOTAL YTD | | 1,310,888 | | 1,063,343 | 686,019,183 | 74.30 | 73.44 | 39.04 | | | | | |
| YTD PEAK | | 196,214 | | 164,238 | | | | | | | | | |
| TOTAL CURRENT | 3,494,143.61 | 294,083.70 | | 220,611.45 | | 6,930.00 | | | | | | 3,887,697.02 | |
| TOTAL YTD | 23,820,270.89 | 1,983,636.92 | | 1,403,276.48 | | 41,979.00 | | | | | | 26,000,495.85 | |
| | | NSNFPPA: | | 195,888.55- | | NSNFPPA2: | | 59,462.80- | | | | | |
| | | NSNFPPA: | | 1,245,033.34- | | NSNFPPA2: | | 1,245,033.34- | | | | | |

*** NOTE - LOAD FACTOR AND MILLS PER KWH CALCULATIONS DO NOT INCLUDE WILLAMETTE VALUES ***

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**
**      PROGRAMMERS AS/400 - BIG RIVERS
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**
**      JOB TITLE :    POWER COST SUMMARY - INDUSTRIALS - ALPHA ORDER
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**      TOTAL NUMBER OF PAGES :      16             TIME OUT :    8:24:45
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**      DATE JOB RAN  :      8/22/13
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**          PROGRAMMERS AS/400 - BIG RIVERS          **  
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**  
** JOB TITLE :   POWER COST SUMMARY - RURALS - ALPHABETICAL ORDER **  
**  
** PROGRAM ID :   EBR104                                         **  
**  
** DEPARTMENT :   GA                                           **  
**  
** INDIVIDUAL :   MJM                                           **  
**  
** DATE JOB RAN :   8/22/13      TIME IN :   8:24:42           **  
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** DATE OF REPORT :   8/22/13                                   **  
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** SPECIAL MESSAGE :                                           **  
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** NUMBER OF COPIES :   1                                       **  
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** JOB :   474311/FS21001492/EBR104      PGM :   *LIBL/EBR105B   **  
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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 1
 DATE 8/22/13

| SUBSTATION | ...METER READ.... | |KW DEMAND..... | |L.F.%..... | | | NON-COIN KW | MONTH | | |
|--------------|-------------------|-----------|---------------------|------|-----------------|--------|------------|----------------|--------|----------|--------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Burna | | | | | 2,505 | 2,579 | 1,261,880 | 65.76 | 65.76 | 2,579 | 148 JP |
| | | | | | 2,728 | 2,582 | 1,078,440 | 58.83 | 62.15 | 2,728 | 01 |
| | | | | | 2,294 | 2,294 | 1,099,280 | 64.41 | 64.41 | 2,294 | 02 |
| | | | | | 1,636 | 1,623 | 731,180 | 61.70 | 62.57 | 1,646 | 03 |
| | | | | | 1,688 | 1,688 | 730,880 | 54.42 | 58.20 | 1,805 | 04 |
| | | | | | 2,197 | 2,291 | 925,610 | 55.48 | 56.11 | 2,317 | 05 |
| | | | | | 2,365 | 2,326 | 984,970 | 53.21 | 56.92 | 2,488 | 06 |
| YEAR TO DATE | 6054470 | 7039440 | 17:00 | 7/09 | 2,728 | 2,582 | 6,812,240 | 8.44 | | 15,857 | 07 |
| Calvert City | | | | | 4,467 | 4,484 | 2,534,970 | 69.07 | 75.99 | 4,933 | 146 JP |
| | | | | | 4,596 | 4,337 | 2,179,600 | 65.75 | 74.79 | 4,933 | 01 |
| | | | | | 3,940 | 3,940 | 2,305,920 | 56.14 | 78.66 | 5,521 | 02 |
| | | | | | 3,715 | 3,404 | 1,805,300 | 59.35 | 73.66 | 4,225 | 03 |
| | | | | | 4,743 | 4,743 | 2,071,490 | 45.07 | 58.70 | 6,178 | 04 |
| | | | | | 6,160 | 5,789 | 2,524,800 | 54.84 | 60.57 | 6,394 | 05 |
| | | | | | 6,247 | 5,823 | 2,647,850 | 56.66 | 61.12 | 6,281 | 06 |
| YEAR TO DATE | 9297840 | 11945690 | 17:00 | 7/09 | 6,247 | 5,823 | 16,069,930 | 8.21 | | 38,465 | 07 |
| Coleman Road | | | | | 3,180 | 3,309 | 2,486,960 | 68.96 | 101.02 | 4,847 | 138 JP |
| | | | | | 3,231 | 3,076 | 2,159,240 | 66.29 | 104.46 | 4,847 | 01 |
| | | | | | 2,773 | 2,773 | 2,332,090 | 65.37 | 113.04 | 4,795 | 02 |
| | | | | | 2,696 | 2,609 | 2,298,140 | 60.36 | 122.34 | 5,288 | 03 |
| | | | | | 5,737 | 5,737 | 2,669,620 | 60.37 | 62.54 | 5,944 | 04 |
| | | | | | 8,951 | 9,020 | 4,054,010 | 61.08 | 62.42 | 9,219 | 05 |
| | | | | | 6,696 | 6,713 | 3,225,330 | 64.24 | 64.58 | 6,748 | 06 |
| YEAR TO DATE | 55161630 | 58386960 | 17:00 | 7/09 | 8,951 | 9,020 | 19,225,390 | 9.06 | | 41,688 | 07 |
| Culp | | | | | 6,938 | 6,687 | 3,451,950 | 65.89 | 69.38 | 7,042 | 143 JP |
| | | | | | 7,111 | 7,188 | 3,030,400 | 62.74 | 62.74 | 7,188 | 01 |
| | | | | | 6,264 | 6,264 | 3,205,380 | 52.93 | 68.78 | 8,139 | 02 |
| | | | | | 4,959 | 5,003 | 2,448,400 | 62.67 | 67.97 | 5,426 | 03 |
| | | | | | 6,670 | 6,670 | 2,767,230 | 42.87 | 55.76 | 8,675 | 04 |
| | | | | | 8,009 | 8,052 | 3,508,350 | 54.02 | 60.52 | 9,020 | 05 |
| | | | | | 8,821 | 8,657 | 3,663,170 | 53.11 | 56.87 | 9,271 | 06 |
| YEAR TO DATE | 98767540 | 102430710 | 17:00 | 7/09 | 8,821 | 8,657 | 22,074,880 | 7.92 | | 54,761 | 07 |
| Cumberland | | | | | 1,426 | 851 | 1,028,710 | 42.00 | 162.48 | 3,292 | 210 JP |
| | | | | | 1,469 | 1,559 | 973,540 | 44.06 | 92.93 | 3,288 | 01 |
| | | | | | 1,261 | 1,261 | 1,071,380 | 37.80 | 114.20 | 3,810 | 02 |
| | | | | | 1,361 | 1,516 | 1,001,450 | 39.80 | 91.75 | 3,495 | 03 |
| | | | | | 678 | 678 | 918,730 | 42.79 | 182.13 | 2,886 | 04 |
| | | | | | 2,475 | 938 | 1,009,510 | 39.48 | 149.48 | 3,551 | 05 |
| | | | | | 2,298 | 829 | 986,810 | 40.24 | 159.99 | 3,296 | 06 |
| YEAR TO DATE | 44120150 | 45106960 | 17:00 | 7/09 | 2,475 | 1,559 | 6,990,130 | 5.82 | | 23,618 | 07 |

Big Rivers Electric Corporation
Case No. 2013-00199
Attachment for Response to AG 1-141

EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 2
 DATE 8/22/13

| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH |
|--------------|------------|----------|-------|------|-----------|--------|------------|----------|-------|-------------|--------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| Draffenville | | | | | | | | | | | 155 JP |
| | | | | | 2,009 | 1,938 | 1,202,130 | 72.49 | 83.37 | 2,229 | 01 |
| | | | | | 1,963 | 1,944 | 1,045,030 | 72.50 | 80.00 | 2,145 | 02 |
| | | | | | 1,853 | 1,853 | 1,145,290 | 57.65 | 83.07 | 2,670 | 03 |
| | | | | | 1,464 | 1,477 | 1,060,860 | 56.71 | 99.76 | 2,598 | 04 |
| | | | | | 2,702 | 2,702 | 1,223,290 | 46.21 | 60.85 | 3,558 | 05 |
| | | | | | 3,318 | 3,363 | 1,433,080 | 56.77 | 59.18 | 3,506 | 06 |
| | | | | | 3,493 | 3,402 | 1,538,470 | 58.55 | 60.78 | 3,532 | 07 |
| YEAR TO DATE | 41032730 | 42571200 | 17:00 | 7/09 | 3,493 | 3,402 | 8,648,150 | 8.40 | | 20,238 | |
| Freemont | | | | | | | | | | | 141 JP |
| | | | | | 6,994 | 6,562 | 3,369,130 | 64.75 | 69.01 | 6,994 | 01 |
| | | | | | 7,262 | 7,055 | 2,848,770 | 58.38 | 60.09 | 7,262 | 02 |
| | | | | | 6,238 | 6,238 | 2,886,790 | 62.20 | 62.20 | 6,238 | 03 |
| | | | | | 4,873 | 4,657 | 2,020,690 | 57.59 | 60.26 | 4,873 | 04 |
| | | | | | 5,448 | 5,448 | 2,113,500 | 51.78 | 52.14 | 5,486 | 05 |
| | | | | | 6,549 | 6,852 | 2,699,320 | 52.60 | 54.71 | 7,128 | 06 |
| | | | | | 7,171 | 7,098 | 2,858,590 | 52.47 | 54.13 | 7,322 | 07 |
| YEAR TO DATE | 37113300 | 39971890 | 17:00 | 7/09 | 7,262 | 7,098 | 18,796,790 | 8.15 | | 45,303 | |
| Grand Rivers | | | | | | | | | | | 150 JP |
| | | | | | 5,638 | 5,890 | 2,966,910 | 67.48 | 67.70 | 5,910 | 01 |
| | | | | | 6,156 | 6,260 | 2,493,830 | 59.28 | 59.28 | 6,260 | 02 |
| | | | | | 5,294 | 5,294 | 2,652,870 | 59.88 | 67.35 | 5,955 | 03 |
| | | | | | 4,704 | 4,704 | 2,041,320 | 60.27 | 60.27 | 4,704 | 04 |
| | | | | | 5,048 | 5,048 | 2,223,530 | 58.01 | 59.20 | 5,152 | 05 |
| | | | | | 6,286 | 6,435 | 2,893,570 | 57.54 | 62.45 | 6,985 | 06 |
| | | | | | 6,720 | 6,759 | 3,159,130 | 58.20 | 62.82 | 7,296 | 07 |
| YEAR TO DATE | 19324970 | 22484100 | 17:00 | 7/09 | 6,720 | 6,759 | 18,431,160 | 8.57 | | 42,262 | |
| High Point | | | | | | | | | | | 137 JP |
| | | | | | 1,225 | 1,374 | 659,390 | 64.50 | 64.50 | 1,374 | 01 |
| | | | | | 1,348 | 1,322 | 563,650 | 62.22 | 63.45 | 1,348 | 02 |
| | | | | | 1,128 | 1,128 | 581,260 | 64.14 | 69.26 | 1,218 | 03 |
| | | | | | 901 | 862 | 421,460 | 62.27 | 67.91 | 940 | 04 |
| | | | | | 1,050 | 1,050 | 438,870 | 53.24 | 56.18 | 1,108 | 05 |
| | | | | | 1,328 | 1,335 | 534,180 | 54.00 | 55.57 | 1,374 | 06 |
| | | | | | 1,309 | 1,315 | 540,280 | 54.93 | 55.22 | 1,322 | 07 |
| YEAR TO DATE | 79514830 | 80055110 | 17:00 | 7/09 | 1,348 | 1,374 | 3,739,090 | 8.46 | | 8,684 | |
| Husband Road | | | | | | | | | | | 140 JP |
| | | | | | 5,244 | 5,167 | 2,634,030 | 67.51 | 68.52 | 5,244 | 01 |
| | | | | | 5,374 | 5,340 | 2,256,700 | 62.49 | 62.89 | 5,374 | 02 |
| | | | | | 4,856 | 4,856 | 2,337,240 | 64.69 | 64.69 | 4,856 | 03 |
| | | | | | 3,732 | 3,663 | 1,742,540 | 61.43 | 66.07 | 3,940 | 04 |
| | | | | | 5,236 | 5,236 | 1,982,150 | 49.58 | 50.88 | 5,374 | 05 |
| | | | | | 6,437 | 6,523 | 2,582,720 | 53.64 | 54.99 | 6,687 | 06 |
| | | | | | 6,869 | 6,696 | 2,749,470 | 52.16 | 55.19 | 7,085 | 07 |
| YEAR TO DATE | 7496300 | 10245770 | 17:00 | 7/09 | 6,869 | 6,696 | 16,284,850 | 8.30 | | 38,560 | |

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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 3
 DATE 8/22/13

| SUBSTATION | METER READ | | TIME DAY | | KW DEMAND | | KWH USED | L.F.% | | NON-COIN KW | MONTH |
|--------------|------------|----------|----------|------|-----------|--------|------------|----------|-------|-------------|--------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| Joy | | | | | | | | | | | 149 JP |
| | | | | | 1,482 | 1,447 | 750,840 | 66.92 | 69.74 | 1,508 | 01 |
| | | | | | 1,603 | 1,590 | 634,140 | 58.87 | 59.35 | 1,603 | 02 |
| | | | | | 1,270 | 1,270 | 643,620 | 65.44 | 68.12 | 1,322 | 03 |
| | | | | | 994 | 1,028 | 426,470 | 55.98 | 57.62 | 1,058 | 04 |
| | | | | | 1,002 | 1,002 | 418,320 | 52.50 | 56.11 | 1,071 | 05 |
| | | | | | 1,188 | 1,326 | 518,050 | 53.22 | 54.26 | 1,352 | 06 |
| | | | | | 1,374 | 1,352 | 557,540 | 51.47 | 55.43 | 1,456 | 07 |
| YEAR TO DATE | 48144990 | 48702530 | 17:00 | 7/09 | 1,603 | 1,590 | 3,948,980 | 8.28 | | 9,370 | |
| Kansas | | | | | | | | | | | 135 JP |
| | | | | | 5,910 | 5,864 | 2,353,760 | 53.53 | 53.95 | 5,910 | 01 |
| | | | | | 4,672 | 4,581 | 1,895,230 | 60.37 | 61.56 | 4,672 | 02 |
| | | | | | 5,398 | 5,398 | 2,298,140 | 56.27 | 57.22 | 5,489 | 03 |
| | | | | | 3,525 | 3,551 | 1,480,840 | 49.36 | 57.92 | 4,167 | 04 |
| | | | | | 3,888 | 3,888 | 1,574,300 | 45.67 | 54.42 | 4,633 | 05 |
| | | | | | 4,977 | 4,983 | 1,940,720 | 53.67 | 54.09 | 5,022 | 06 |
| | | | | | 4,931 | 5,003 | 2,070,080 | 53.34 | 55.61 | 5,216 | 07 |
| YEAR TO DATE | 97880600 | 99950680 | 17:00 | 7/09 | 5,910 | 5,864 | 13,613,070 | 7.62 | | 35,109 | |
| Kevil | | | | | | | | | | | 132 JP |
| | | | | | 5,327 | 5,489 | 2,713,330 | 66.44 | 66.44 | 5,489 | 01 |
| | | | | | 5,754 | 5,761 | 2,306,940 | 59.59 | 59.59 | 5,761 | 02 |
| | | | | | 4,951 | 4,951 | 2,391,190 | 57.47 | 64.92 | 5,592 | 03 |
| | | | | | 3,655 | 3,648 | 1,626,500 | 61.81 | 61.93 | 3,655 | 04 |
| | | | | | 4,497 | 4,497 | 1,775,100 | 50.17 | 53.06 | 4,756 | 05 |
| | | | | | 5,424 | 5,670 | 2,257,750 | 54.50 | 55.30 | 5,754 | 06 |
| | | | | | 5,838 | 5,806 | 2,407,540 | 52.68 | 55.73 | 6,143 | 07 |
| YEAR TO DATE | 91024150 | 93431690 | 17:00 | 7/09 | 5,838 | 5,806 | 15,478,350 | 8.19 | | 37,150 | |
| Krebs Road | | | | | | | | | | | 139 JP |
| | | | | | 8,515 | 8,592 | 3,980,130 | 62.26 | 62.26 | 8,592 | 01 |
| | | | | | 8,994 | 8,677 | 3,393,390 | 56.15 | 58.20 | 8,994 | 02 |
| | | | | | 7,614 | 7,614 | 3,484,170 | 61.51 | 61.51 | 7,614 | 03 |
| | | | | | 5,806 | 5,709 | 2,461,100 | 58.87 | 59.87 | 5,806 | 04 |
| | | | | | 6,739 | 6,739 | 2,693,920 | 52.42 | 53.73 | 6,908 | 05 |
| | | | | | 8,119 | 8,411 | 3,383,220 | 55.02 | 55.87 | 8,541 | 06 |
| | | | | | 8,489 | 8,709 | 3,613,730 | 55.44 | 55.77 | 8,761 | 07 |
| YEAR TO DATE | 66515450 | 70129180 | 17:00 | 7/09 | 8,994 | 8,709 | 23,009,660 | 8.19 | | 55,216 | |
| La Center | | | | | | | | | | | 131 JP |
| | | | | | 2,264 | 2,324 | 1,267,990 | 62.02 | 73.33 | 2,748 | 01 |
| | | | | | 2,281 | 2,160 | 835,000 | 54.47 | 57.53 | 2,281 | 02 |
| | | | | | 1,719 | 1,719 | 843,930 | 65.99 | 65.99 | 1,719 | 03 |
| | | | | | 1,348 | 1,296 | 582,700 | 60.04 | 62.45 | 1,348 | 04 |
| | | | | | 1,663 | 1,663 | 645,030 | 52.13 | 52.13 | 1,663 | 05 |
| | | | | | 1,806 | 1,944 | 822,120 | 51.93 | 58.74 | 2,199 | 06 |
| | | | | | 1,957 | 2,186 | 886,510 | 54.51 | 54.51 | 2,186 | 07 |
| YEAR TO DATE | 78303730 | 79190240 | 17:00 | 7/09 | 2,281 | 2,324 | 5,883,280 | 8.18 | | 14,144 | |

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BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

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| SUBSTATION |METER READ..... | |KW DEMAND..... | |L.F. %..... | | | NON-COIN KW | MONTH | | |
|----------------|----------------------|----------|---------------------|------|------------------|--------|------------|----------------|-------|----------|--------------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Ledbetter | | | | | 6,785 | 6,908 | 3,187,580 | 61.28 | 62.02 | 6,992 | 144 JP 01 |
| | | | | | 7,556 | 7,335 | 2,696,210 | 53.10 | 54.70 | 7,556 | 02 |
| | | | | | 5,936 | 5,936 | 2,703,740 | 61.22 | 61.22 | 5,936 | 03 |
| | | | | | 4,413 | 4,380 | 1,725,560 | 54.31 | 54.72 | 4,413 | 04 |
| | | | | | 4,290 | 4,290 | 1,783,790 | 55.14 | 55.89 | 4,348 | 05 |
| | | | | | 5,294 | 5,281 | 2,189,810 | 55.54 | 57.59 | 5,476 | 06 |
| YEAR TO DATE | 1457090 | 3815720 | 17:00 | 7/09 | 5,514 | 5,676 | 2,358,630 | 55.78 | 55.85 | 5,683 | 07 |
| | | | | | 7,556 | 7,335 | 16,645,320 | 8.10 | | 40,404 | |
| Little Union | | | | | 8,484 | 8,536 | 4,425,890 | 68.57 | 69.69 | 8,675 | 136 JP 01 |
| | | | | | 8,977 | 8,882 | 3,768,000 | 62.46 | 63.13 | 8,977 | 02 |
| | | | | | 7,793 | 7,793 | 3,932,240 | 67.23 | 67.82 | 7,862 | 03 |
| | | | | | 6,169 | 6,108 | 2,926,610 | 64.36 | 66.55 | 6,316 | 04 |
| | | | | | 8,364 | 8,364 | 3,335,730 | 53.12 | 53.60 | 8,441 | 05 |
| | | | | | 9,616 | 9,927 | 4,170,150 | 56.29 | 58.34 | 10,290 | 06 |
| YEAR TO DATE | 79337480 | 83031430 | 17:00 | 7/09 | 7,586 | 10,506 | 3,693,950 | 46.91 | 47.26 | 10,584 | 07 |
| | | | | | 9,616 | 10,506 | 26,252,570 | 8.44 | | 61,145 | |
| Lovellaceville | | | | | 4,173 | 4,169 | 2,079,170 | 66.21 | 67.03 | 4,221 | 134 JP 01 |
| | | | | | 4,329 | 4,307 | 1,747,560 | 60.07 | 60.38 | 4,329 | 02 |
| | | | | | 3,771 | 3,771 | 1,785,970 | 63.66 | 63.66 | 3,771 | 03 |
| | | | | | 2,791 | 2,752 | 1,241,050 | 61.76 | 62.63 | 2,791 | 04 |
| | | | | | 3,456 | 3,456 | 1,331,550 | 50.71 | 51.79 | 3,529 | 05 |
| | | | | | 4,052 | 4,212 | 1,711,270 | 54.41 | 56.43 | 4,368 | 06 |
| YEAR TO DATE | 47146340 | 48979610 | 17:00 | 7/09 | 4,441 | 4,571 | 1,833,270 | 52.47 | 53.91 | 4,696 | 07 |
| | | | | | 4,441 | 4,571 | 11,729,840 | 8.32 | | 27,705 | |
| Maxon | | | | | 2,765 | 0 | 794,310 | 35.77 | .00 | 2,985 | 157 JP 07 |
| YEAR TO DATE | | 794310 | 17:00 | 7/09 | 2,765 | 0 | 794,310 | 35.77 | | 2,985 | |
| New York | | | | | 5,294 | 5,521 | 2,655,830 | 64.66 | 64.66 | 5,521 | 133 JP 01 |
| | | | | | 5,748 | 5,664 | 2,224,340 | 57.59 | 58.44 | 5,748 | 02 |
| | | | | | 4,588 | 4,588 | 2,168,520 | 63.53 | 63.53 | 4,588 | 03 |
| | | | | | 3,538 | 3,454 | 1,490,720 | 58.52 | 59.94 | 3,538 | 04 |
| | | | | | 4,044 | 4,044 | 1,622,090 | 52.00 | 53.91 | 4,193 | 05 |
| | | | | | 4,607 | 4,886 | 2,019,150 | 55.49 | 57.40 | 5,054 | 06 |
| YEAR TO DATE | 88615340 | 90836140 | 17:00 | 7/09 | 5,106 | 5,197 | 2,220,800 | 54.77 | 57.44 | 5,450 | 07 |
| | | | | | 5,748 | 5,664 | 14,401,450 | 8.30 | | 34,092 | |
| Olivet Church | | | | | 3,804 | 3,771 | 1,956,580 | 68.56 | 69.74 | 3,836 | 153 JP 01 |
| | | | | | 3,888 | 3,778 | 1,685,000 | 63.43 | 66.37 | 3,953 | 02 |
| | | | | | 3,467 | 3,467 | 1,762,290 | 66.57 | 68.32 | 3,558 | 03 |
| | | | | | 2,838 | 2,683 | 1,496,430 | 62.89 | 77.46 | 3,305 | 04 |

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EBR105B
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BIG RIVERS ELECTRIC CORPORATION
 P O W E R C O S T S U M M A R Y

PAGE 5
 DATE 8/22/13

| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH |
|--------------|------------|----------|-------|------|-----------|--------|------------|----------|-------|-------------|-----------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| | | | | | 4,309 | 4,309 | 1,762,450 | 54.23 | 54.98 | 4,368 | 05 |
| | | | | | 5,048 | 5,236 | 2,162,920 | 56.39 | 57.37 | 5,327 | 06 |
| | 56383870 | 58702830 | 17:00 | 7/09 | 5,489 | 5,365 | 2,318,960 | 55.67 | 58.10 | 5,599 | 07 |
| YEAR TO DATE | | | | | 5,489 | 5,365 | 13,144,630 | 8.63 | | 29,946 | |
| Palma | | | | | 4,571 | 4,588 | 2,327,530 | 68.19 | 68.19 | 4,588 | 145 JP 01 |
| | | | | | 4,700 | 4,605 | 2,000,750 | 63.35 | 64.65 | 4,700 | 02 |
| | | | | | 4,190 | 4,190 | 1,934,650 | 62.06 | 62.06 | 4,190 | 03 |
| | | | | | 3,136 | 3,119 | 1,576,570 | 61.96 | 70.20 | 3,534 | 04 |
| | | | | | 4,666 | 4,666 | 1,758,920 | 50.67 | 50.67 | 4,666 | 05 |
| | | | | | 5,478 | 5,676 | 2,270,190 | 55.05 | 55.55 | 5,728 | 06 |
| YEAR TO DATE | 89323090 | 91737750 | 17:00 | 7/09 | 5,763 | 5,789 | 2,414,660 | 54.84 | 56.06 | 5,918 | 07 |
| | | | | | 5,763 | 5,789 | 14,283,270 | 8.42 | | 33,324 | |
| Poosum Trot | | | | | 5,190 | 5,495 | 2,626,200 | 54.10 | 64.24 | 6,525 | 208 JP 01 |
| | | | | | 5,100 | 5,003 | 2,315,560 | 49.69 | 68.87 | 6,934 | 02 |
| | | | | | 4,659 | 4,659 | 2,408,500 | 54.24 | 69.48 | 5,968 | 03 |
| | | | | | 3,525 | 3,551 | 1,685,260 | 60.11 | 65.91 | 3,894 | 04 |
| | | | | | 3,583 | 3,583 | 1,585,760 | 47.67 | 59.49 | 4,471 | 05 |
| | | | | | 3,836 | 4,147 | 1,811,650 | 57.45 | 60.67 | 4,380 | 06 |
| YEAR TO DATE | 71757210 | 73667120 | 17:00 | 7/09 | 4,387 | 4,186 | 1,909,910 | 56.83 | 61.33 | 4,517 | 07 |
| | | | | | 5,190 | 5,495 | 14,342,840 | 7.68 | | 36,689 | |
| Ragland | | | | | 1,678 | 1,756 | 1,017,190 | 68.50 | 77.86 | 1,996 | 189 JP 01 |
| | | | | | 1,905 | 1,905 | 776,250 | 60.64 | 60.64 | 1,905 | 02 |
| | | | | | 1,400 | 1,400 | 780,100 | 66.74 | 74.89 | 1,571 | 03 |
| | | | | | 1,131 | 1,170 | 521,180 | 58.47 | 61.87 | 1,238 | 04 |
| | | | | | 1,251 | 1,251 | 522,130 | 52.45 | 56.10 | 1,338 | 05 |
| | | | | | 1,468 | 1,562 | 657,610 | 56.28 | 58.47 | 1,623 | 06 |
| YEAR TO DATE | 72628330 | 73339610 | 17:00 | 7/09 | 1,597 | 1,601 | 711,280 | 56.64 | 59.71 | 1,688 | 07 |
| | | | | | 1,905 | 1,905 | 4,985,740 | 8.63 | | 11,359 | |
| Reidland | | | | | 4,523 | 4,588 | 2,634,520 | 75.79 | 77.18 | 4,672 | 142 JP 01 |
| | | | | | 4,659 | 4,588 | 2,333,430 | 73.91 | 75.68 | 4,698 | 02 |
| | | | | | 4,251 | 4,251 | 2,431,730 | 76.19 | 76.89 | 4,290 | 03 |
| | | | | | 3,681 | 3,681 | 1,844,770 | 69.12 | 69.61 | 3,707 | 04 |
| | | | | | 3,635 | 3,635 | 1,759,030 | 57.74 | 65.04 | 4,095 | 05 |
| | | | | | 4,795 | 4,620 | 2,106,740 | 58.26 | 63.33 | 5,022 | 06 |
| YEAR TO DATE | 89682020 | 91960010 | 17:00 | 7/09 | 4,977 | 4,789 | 2,277,990 | 57.69 | 63.93 | 5,307 | 07 |
| | | | | | 4,977 | 4,789 | 15,388,210 | 9.51 | | 31,791 | |
| Smithland | | | | | 6,350 | 6,242 | 3,322,690 | 70.33 | 71.55 | 6,350 | 147 JP 01 |
| | | | | | 6,657 | 6,519 | 2,865,050 | 64.04 | 65.40 | 6,657 | 02 |
| | | | | | 5,603 | 5,603 | 2,954,770 | 70.60 | 70.88 | 5,625 | 03 |

Big Rivers Electric Corporation
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EBR105B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
P O W E R C O S T S U M M A R Y

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DATE 8/22/13

| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH | | | | | |
|-----------------|------------|------------|-------|--------|--------------|----------|------------|----------|-------|-------------|--------------|-----------|-------|--------|-------|--------------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | | | | | | |
| Strawberry Hill | 88304920 | 90908870 | 17:00 | 7/09 | 4,441 | 4,415 | 2,174,010 | 67.28 | 68.39 | 4,488 | 04 | | | | | |
| | | | | | 4,527 | 4,527 | 2,219,460 | 63.93 | 65.90 | 4,666 | 05 | | | | | |
| | | | | | 5,219 | 5,871 | 2,512,780 | 59.44 | 59.44 | 5,871 | 06 | | | | | |
| | | | | | 5,534 | 5,465 | 2,603,950 | 59.57 | 64.04 | 5,875 | 07 | | | | | |
| | | | | | 6,657 | 6,519 | 18,652,710 | 9.27 | | 39,532 | | | | | | |
| | | | | | YEAR TO DATE | | | | | | | | | | | |
| Vulcan | 65420410 | 70755630 | 17:00 | 7/09 | 6,966 | 6,914 | 4,410,810 | 72.67 | 85.75 | 8,158 | 154 JP 01 | | | | | |
| | | | | | 7,264 | 7,018 | 3,835,480 | 71.78 | 81.33 | 7,951 | 02 | | | | | |
| | | | | | 6,538 | 6,538 | 4,096,330 | 72.07 | 84.21 | 7,640 | 03 | | | | | |
| | | | | | 5,618 | 5,683 | 3,743,790 | 64.66 | 91.50 | 8,042 | 04 | | | | | |
| | | | | | 9,927 | 9,927 | 4,383,700 | 59.35 | 59.35 | 9,927 | 05 | | | | | |
| | | | | | 8,994 | 9,040 | 4,065,890 | 62.38 | 62.47 | 9,053 | 06 | | | | | |
| | | | | | 11,677 | 11,774 | 5,335,220 | 60.08 | 60.91 | 11,936 | 07 | | | | | |
| | | | | | 11,677 | 11,774 | 29,871,220 | 9.36 | | 62,707 | | | | | | |
| | | | | | YEAR TO DATE | | | | | | | | | | | |
| | | | | | Vulcan | 69405700 | 71404470 | 17:00 | 7/09 | 1,912 | 1,730 | 1,398,840 | 39.69 | 108.68 | 4,737 | 151 JP 01 |
| | | | | | | | | | | 1,983 | 1,879 | 1,167,790 | 54.51 | 92.48 | 3,188 | 02 |
| 1,646 | 1,646 | 1,760,550 | 38.00 | 143.76 | | | | | | 6,227 | 03 | | | | | |
| 4,523 | 3,823 | 1,818,770 | 41.42 | 66.08 | | | | | | 6,098 | 04 | | | | | |
| 1,594 | 1,594 | 1,779,170 | 40.42 | 150.02 | | | | | | 5,916 | 05 | | | | | |
| 6,363 | 1,659 | 1,739,250 | 37.96 | 145.61 | | | | | | 6,363 | 06 | | | | | |
| 4,782 | 2,281 | 1,998,770 | 44.20 | 117.78 | | | | | | 6,078 | 07 | | | | | |
| 6,363 | 3,823 | 11,663,140 | 5.94 | | 38,607 | | | | | | | | | | | |
| YEAR TO DATE | | | | | | | | | | | | | | | | |

Big Rivers Electric Corporation
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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 7
 DATE 8/22/13

| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH |
|---|------------|---------|-------|------|-----------|---------|-------------|----------|-------|-------------|-------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| JACKSON PURCHASE ELECTRIC COOPERATIVE CORPORATION | | | | | | | | | | | |
| | | | | | 122,851 | 122,775 | 64,704,940 | | 70.84 | 134,962 | 01 |
| | | | | | 127,308 | 124,915 | 55,109,320 | | 65.65 | 135,280 | 02 |
| | | | | | 110,695 | 110,695 | 57,997,940 | | 70.42 | 128,458 | 03 |
| | | | | | 91,174 | 89,569 | 44,393,670 | | 68.84 | 104,533 | 04 |
| | | | | | 110,436 | 110,435 | 48,089,740 | | 58.53 | 125,155 | 05 |
| | | | | | 137,995 | 135,049 | 58,504,420 | | 60.17 | 147,604 | 06 |
| | | | 17:00 | 7/09 | 144,196 | 139,874 | 62,361,170 | | 59.92 | 154,719 | 07 |
| YEAR TO DATE | | | | | 144,196 | 139,874 | 391,161,200 | 8.26 | 53.32 | 930,711 | |

| | TOTAL LINE | | | | | TOTAL COST |
|--------------|---------------|--------------|------------------|-------------|-------------|---------------|
| | CHARGE | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | | |
| CURRENT | 3,110,266.58 | 194,317.41 | 194,526.76 | .00 | | 3,414,486.64 |
| | | NSNFPPA: | 64,917.98- | NSNFPPA2: | 19,706.13- | |
| YEAR TO DATE | 16,546,651.62 | 1,283,588.98 | 1,085,216.63 | .00 | | 18,384,651.47 |
| | | NSNFPPA: | 407,198.81- | NSNFPPA2: | 123,606.95- | |

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BIG RIVERS ELECTRIC CORPORATION
 P O W E R C O S T S U M M A R Y

PAGE 8
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| SUBSTATION |METER READ..... | |KW DEMAND..... | |L.F.\$..... | | | NON-COIN KW | MONTH | | |
|--------------|----------------------|-----------|---------------------|------|------------------|--------|------------|----------------|-------|----------|--------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Andyville | | | | | 3,845 | 3,534 | 1,798,950 | 62.89 | 68.42 | 3,845 | 055 MC |
| | | | | | 3,776 | 3,720 | 1,556,150 | 60.91 | 62.25 | 3,802 | 01 |
| | | | | | 3,102 | 2,972 | 1,635,230 | 64.82 | 73.95 | 3,391 | 02 |
| | | | | | 2,618 | 2,618 | 1,087,459 | 55.49 | 57.69 | 2,722 | 03 |
| | | | | | 2,195 | 2,307 | 1,064,310 | 58.92 | 62.01 | 2,428 | 04 |
| | | | | | 2,989 | 2,765 | 1,251,150 | 58.14 | 62.85 | 2,989 | 05 |
| | | | | | 2,964 | 3,158 | 1,384,750 | 55.02 | 58.94 | 3,383 | 06 |
| YEAR TO DATE | 26642690 | 28027440 | 17:00 | 7/09 | 3,845 | 3,720 | 9,777,999 | 8.52 | | 22,560 | 07 |
| Battletown | | | | | 2,907 | 2,959 | 1,473,490 | 49.45 | 66.93 | 4,005 | 051 MC |
| | | | | | 3,257 | 2,691 | 1,280,770 | 48.17 | 70.83 | 3,957 | 01 |
| | | | | | 2,735 | 2,687 | 1,316,840 | 48.08 | 65.87 | 3,681 | 02 |
| | | | | | 3,551 | 3,551 | 1,052,676 | 39.30 | 41.17 | 3,720 | 03 |
| | | | | | 2,860 | 1,896 | 1,052,790 | 44.68 | 74.63 | 3,167 | 04 |
| | | | | | 3,171 | 2,290 | 1,107,470 | 45.89 | 67.17 | 3,352 | 05 |
| | | | | | 3,028 | 1,961 | 1,219,280 | 47.65 | 83.57 | 3,439 | 06 |
| YEAR TO DATE | 98355270 | 99574550 | 17:00 | 7/09 | 3,551 | 3,551 | 8,503,316 | 6.60 | | 25,321 | 07 |
| Brandenburg | | | | | 14,550 | 14,636 | 6,715,630 | 61.67 | 61.67 | 14,636 | 047 MC |
| | | | | | 14,874 | 14,770 | 5,838,900 | 58.42 | 58.83 | 14,874 | 01 |
| | | | | | 12,714 | 12,498 | 6,059,010 | 62.61 | 65.16 | 13,008 | 02 |
| | | | | | 9,897 | 9,897 | 4,228,771 | 58.83 | 59.34 | 9,984 | 03 |
| | | | | | 10,087 | 9,845 | 4,377,170 | 58.33 | 59.76 | 10,087 | 04 |
| | | | | | 10,964 | 11,444 | 4,828,390 | 58.60 | 58.60 | 11,444 | 05 |
| | | | | | 11,867 | 11,284 | 5,275,020 | 59.29 | 62.83 | 11,958 | 06 |
| YEAR TO DATE | 141109600 | 146384620 | 17:00 | 7/09 | 14,874 | 14,770 | 37,322,891 | 8.53 | | 85,991 | 07 |
| Cloverport | | | | | 4,355 | 4,393 | 2,144,610 | 65.62 | 65.62 | 4,393 | 053 MC |
| | | | | | 4,218 | 4,270 | 1,870,420 | 64.10 | 65.18 | 4,342 | 01 |
| | | | | | 3,545 | 3,622 | 1,929,550 | 65.82 | 71.60 | 3,940 | 02 |
| | | | | | 2,858 | 2,858 | 1,386,867 | 62.85 | 67.40 | 3,065 | 03 |
| | | | | | 3,130 | 3,259 | 1,406,110 | 56.96 | 57.99 | 3,318 | 04 |
| | | | | | 3,959 | 3,732 | 1,666,080 | 58.45 | 62.00 | 3,959 | 05 |
| | | | | | 4,316 | 4,069 | 1,886,690 | 56.88 | 62.32 | 4,458 | 06 |
| YEAR TO DATE | 54318280 | 56204970 | 17:00 | 7/09 | 4,355 | 4,393 | 12,290,327 | 8.79 | | 27,475 | 07 |
| Custer | | | | | 5,378 | 5,292 | 2,505,450 | 62.62 | 63.63 | 5,378 | 046 MC |
| | | | | | 5,508 | 5,508 | 2,216,920 | 59.89 | 59.89 | 5,508 | 01 |
| | | | | | 4,847 | 4,661 | 2,286,360 | 63.40 | 65.93 | 4,847 | 02 |
| | | | | | 3,750 | 3,750 | 1,372,108 | 49.35 | 50.82 | 3,862 | 03 |
| | | | | | 2,795 | 2,886 | 1,236,060 | 57.15 | 57.57 | 2,907 | 04 |
| | | | | | 3,439 | 3,573 | 1,444,960 | 54.79 | 56.17 | 3,663 | 05 |
| | | | | | 3,987 | 3,629 | 1,589,760 | 52.28 | 58.88 | 4,087 | 06 |
| YEAR TO DATE | 55747190 | 57336950 | 17:00 | 7/09 | 5,508 | 5,508 | 12,651,618 | 8.22 | | 30,252 | 07 |

EBR105B
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BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

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| SUBSTATION | ... METER READ ... | | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH | |
|----------------|--------------------|-----------|-----------------------|------|----------|--------------------|------------|----------------|--------|----------|
| | PREVIOUS | PRESENT | TIME | DAY | | ACTUAL | BILLED | | | NON-COIN |
| Doe Valley | | | | | | | | | 124 MC | |
| | | | | | 7,435 | 7,158 | 3,198,130 | 56.69 60.05 | 7,582 | 01 |
| | | | | | 7,500 | 7,508 | 2,743,364 | 53.21 54.37 | 7,672 | 02 |
| | | | | | 6,385 | 6,035 | 2,824,120 | 51.03 62.90 | 7,439 | 03 |
| | | | | | 4,916 | 4,916 | 1,733,010 | 47.54 48.96 | 5,063 | 04 |
| | | | | | 4,493 | 4,756 | 1,752,730 | 49.53 49.53 | 4,756 | 05 |
| | | | | | 5,028 | 5,486 | 2,073,330 | 52.49 52.49 | 5,486 | 06 |
| YEAR TO DATE | 9366740 | 11626870 | 17:00 | 7/09 | 5,668 | 5,404 | 2,260,130 | 53.60 56.21 | 5,668 | 07 |
| | | | | | 7,500 | 7,508 | 16,584,814 | 7.46 | 43,666 | |
| Falls of Rough | | | | | | | | | 202 MC | |
| | | | | | 5,294 | 5,216 | 2,311,680 | 58.69 59.57 | 5,294 | 01 |
| | | | | | 5,903 | 5,826 | 1,996,150 | 50.32 50.99 | 5,903 | 02 |
| | | | | | 4,899 | 4,717 | 2,079,380 | 57.05 59.25 | 4,899 | 03 |
| | | | | | 3,700 | 3,700 | 1,283,057 | 48.16 48.16 | 3,700 | 04 |
| | | | | | 2,974 | 2,935 | 1,327,520 | 51.66 60.79 | 3,454 | 05 |
| | | | | | 3,739 | 3,732 | 1,672,230 | 49.57 62.23 | 4,685 | 06 |
| YEAR TO DATE | 53186950 | 55057710 | 17:00 | 7/09 | 4,238 | 3,940 | 1,870,760 | 54.04 63.82 | 4,653 | 07 |
| | | | | | 5,903 | 5,826 | 12,540,777 | 7.56 | 32,588 | |
| Flaherty | | | | | | | | | 194 MC | |
| | | | | | 11,133 | 10,562 | 4,776,510 | 56.36 60.78 | 11,392 | 01 |
| | | | | | 11,418 | 11,800 | 4,177,820 | 52.69 52.69 | 11,800 | 02 |
| | | | | | 9,707 | 9,033 | 4,340,020 | 59.90 64.58 | 9,739 | 03 |
| | | | | | 7,296 | 7,296 | 2,413,380 | 45.17 45.94 | 7,420 | 04 |
| | | | | | 6,111 | 6,415 | 2,632,980 | 53.64 55.17 | 6,597 | 05 |
| | | | | | 7,212 | 7,588 | 3,091,550 | 55.63 56.59 | 7,718 | 06 |
| YEAR TO DATE | 31905610 | 35286840 | 17:00 | 7/09 | 8,152 | 7,679 | 3,381,230 | 55.75 59.18 | 8,152 | 07 |
| | | | | | 11,418 | 11,800 | 24,813,490 | 7.76 | 62,818 | |
| Fordsville | | | | | | | | | 048 MC | |
| | | | | | 6,584 | 6,722 | 3,041,970 | 57.22 60.83 | 7,145 | 01 |
| | | | | | 7,301 | 7,033 | 2,714,780 | 52.53 57.44 | 7,690 | 02 |
| | | | | | 6,372 | 6,445 | 2,754,110 | 56.30 57.44 | 6,575 | 03 |
| | | | | | 5,871 | 5,871 | 2,094,507 | 47.22 49.55 | 6,160 | 04 |
| | | | | | 4,644 | 4,039 | 2,047,990 | 48.68 68.15 | 5,655 | 05 |
| | | | | | 6,087 | 4,825 | 2,255,000 | 49.90 64.91 | 6,277 | 06 |
| YEAR TO DATE | 14461590 | 16874510 | 17:00 | 7/09 | 5,314 | 4,929 | 2,412,920 | 48.28 65.80 | 6,718 | 07 |
| | | | | | 7,301 | 7,033 | 17,321,277 | 7.37 | 46,220 | |
| Garrett | | | | | | | | | 050 MC | |
| | | | | | 12,759 | 12,331 | 5,542,150 | 56.74 60.41 | 13,129 | 01 |
| | | | | | 13,103 | 13,297 | 4,837,730 | 54.14 54.14 | 13,297 | 02 |
| | | | | | 11,068 | 10,342 | 4,970,050 | 59.69 64.59 | 11,191 | 03 |
| | | | | | 8,301 | 8,301 | 3,231,555 | 44.37 54.07 | 10,115 | 04 |
| | | | | | 7,083 | 7,459 | 2,904,330 | 52.34 52.34 | 7,459 | 05 |
| | | | | | 8,223 | 8,547 | 3,426,510 | 54.65 55.68 | 8,709 | 06 |
| YEAR TO DATE | 97775690 | 101529340 | 17:00 | 7/09 | 9,279 | 8,638 | 3,753,650 | 53.92 58.41 | 9,357 | 07 |
| | | | | | 13,103 | 13,297 | 28,665,975 | 7.69 | 73,257 | |

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BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

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| SUBSTATION | METER READ | | KW DEMAND | | L.F. % | | | NON-COIN KW | MONTH | | |
|----------------|------------|----------|-----------|------|--------|--------|------------|-------------|-------|----------|--------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Hardinsburg #1 | | | | | 5,819 | 5,957 | 3,087,350 | 69.66 | 69.66 | 5,957 | 049 MC |
| | | | | | 5,802 | 5,828 | 2,734,060 | 69.81 | 69.81 | 5,828 | 01 |
| | | | | | 5,054 | 5,219 | 2,867,160 | 73.13 | 73.84 | 5,270 | 02 |
| | | | | | 7,374 | 7,374 | 2,214,773 | 41.13 | 41.72 | 7,478 | 03 |
| | | | | | 5,352 | 5,028 | 2,271,700 | 56.91 | 60.73 | 5,365 | 04 |
| | | | | | 6,277 | 6,152 | 2,671,130 | 59.10 | 60.30 | 6,277 | 05 |
| | | | | | 6,761 | 6,549 | 2,964,570 | 58.23 | 60.84 | 6,843 | 06 |
| YEAR TO DATE | 33716220 | 36680790 | 17:00 | 7/09 | 7,374 | 7,374 | 18,810,743 | 8.59 | | 43,018 | 07 |
| Hardinsburg #2 | | | | | 4,052 | 4,169 | 2,109,320 | 68.00 | 68.00 | 4,169 | 056 MC |
| | | | | | 4,095 | 4,212 | 1,859,900 | 65.71 | 65.71 | 4,212 | 01 |
| | | | | | 3,741 | 3,979 | 1,965,180 | 66.38 | 66.38 | 3,979 | 02 |
| | | | | | 2,920 | 2,920 | 1,444,452 | 62.60 | 68.70 | 3,205 | 03 |
| | | | | | 3,037 | 3,063 | 1,493,630 | 62.39 | 65.54 | 3,218 | 04 |
| | | | | | 3,724 | 3,646 | 1,692,190 | 63.11 | 64.46 | 3,724 | 05 |
| | | | | | 4,130 | 3,884 | 1,917,810 | 61.58 | 66.37 | 4,186 | 06 |
| YEAR TO DATE | 56546660 | 58464470 | 17:00 | 7/09 | 4,130 | 4,212 | 12,482,482 | 9.19 | | 26,693 | 07 |
| Harned | | | | | 5,054 | 5,145 | 2,605,160 | 66.77 | 68.06 | 5,244 | 193 MC |
| | | | | | 5,106 | 5,115 | 2,279,540 | 64.05 | 66.32 | 5,296 | 01 |
| | | | | | 4,467 | 4,566 | 2,377,300 | 61.13 | 69.98 | 5,227 | 02 |
| | | | | | 0 | 0 | 1,669,658 | 63.76 | .00 | 3,637 | 03 |
| | | | | | 3,776 | 3,650 | 1,771,690 | 54.79 | 65.24 | 4,346 | 04 |
| | | | | | 4,843 | 4,324 | 1,940,500 | 54.21 | 62.33 | 4,972 | 05 |
| | | | | | 5,227 | 4,372 | 2,156,620 | 54.20 | 66.30 | 5,348 | 06 |
| YEAR TO DATE | 90272380 | 92429000 | 17:00 | 7/09 | 5,227 | 5,145 | 14,800,468 | 8.54 | | 34,070 | 07 |
| Irvington | | | | | 9,623 | 9,694 | 4,696,940 | 64.39 | 65.12 | 9,804 | 052 MC |
| | | | | | 9,850 | 9,914 | 4,135,050 | 62.07 | 62.07 | 9,914 | 01 |
| | | | | | 8,819 | 8,631 | 4,285,120 | 64.87 | 66.73 | 8,878 | 02 |
| | | | | | 7,147 | 7,147 | 2,884,160 | 55.85 | 56.05 | 7,173 | 03 |
| | | | | | 6,836 | 6,545 | 2,890,070 | 55.81 | 59.35 | 6,960 | 04 |
| | | | | | 8,256 | 7,815 | 3,414,230 | 56.42 | 60.68 | 8,405 | 05 |
| | | | | | 8,599 | 8,016 | 3,709,150 | 56.74 | 62.19 | 8,787 | 06 |
| YEAR TO DATE | 28363510 | 32072660 | 17:00 | 7/09 | 9,850 | 9,914 | 26,014,720 | 8.53 | | 59,921 | 07 |
| McDaniels | | | | | 9,790 | 9,677 | 4,233,360 | 58.12 | 58.80 | 9,790 | 045 MC |
| | | | | | 10,259 | 10,229 | 3,703,320 | 53.72 | 53.88 | 10,259 | 01 |
| | | | | | 8,195 | 8,256 | 3,817,820 | 62.15 | 62.15 | 8,256 | 02 |
| | | | | | 6,562 | 6,562 | 2,381,254 | 50.40 | 50.40 | 6,562 | 03 |
| | | | | | 5,284 | 5,345 | 2,359,070 | 54.19 | 59.32 | 5,851 | 04 |
| | | | | | 6,615 | 6,721 | 2,955,070 | 48.21 | 61.07 | 8,513 | 05 |
| | | | | | 7,779 | 7,144 | 3,390,280 | 50.61 | 63.79 | 9,004 | 06 |
| YEAR TO DATE | 81846410 | 85236690 | 17:00 | 7/09 | 10,259 | 10,229 | 22,840,174 | 7.71 | | 58,235 | 07 |

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BIG RIVERS ELECTRIC CORPORATION
 P O W E R C O S T S U M M A R Y

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| SUBSTATION |METER READ..... | |KW DEMAND..... | |L.F.%..... | | | NON-COIN KW | MONTH | | |
|--------------|----------------------|---------|---------------------|------|-----------------|--------|-----------|----------------|-------|----------|--------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Union Star | | | | | 3,180 | 3,250 | 1,532,950 | 63.40 | 63.40 | 3,250 | 054 MC |
| | | | | | 3,324 | 3,332 | 1,342,450 | 59.95 | 59.95 | 3,332 | 01 |
| | | | | | 2,811 | 2,773 | 1,387,010 | 66.32 | 67.23 | 2,811 | 02 |
| | | | | | 2,166 | 2,166 | 882,642 | 53.63 | 56.60 | 2,286 | 03 |
| | | | | | 1,915 | 1,983 | 844,050 | 56.81 | 57.21 | 1,997 | 04 |
| | | | | | 2,278 | 2,274 | 957,750 | 54.61 | 58.50 | 2,436 | 05 |
| | | | | | 2,647 | 2,451 | 1,079,170 | 52.98 | 59.18 | 2,738 | 06 |
| YEAR TO DATE | 2720990 | 3800160 | 17:00 | 7/09 | 3,324 | 3,332 | 8,026,022 | 8.37 | | 18,850 | 07 |

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EBR105B
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BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

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| SUBSTATION |METER READ..... | | TIME | DAY |KW DEMAND..... | | KWH USED |L.F.%..... | | NON-COIN KW | MONTH |
|---|----------------------|---------|-------|------|---------------------|---------|-------------|-----------------|-------|----------------|-------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| MEADE COUNTY ELECTRIC COOPERATIVE CORPORATION | | | | | | | | | | | |
| | | | | | 111,758 | 110,695 | 51,773,650 | | 62.86 | 115,013 | 01 |
| | | | | | 115,293 | 115,053 | 45,287,324 | | 58.57 | 117,686 | 02 |
| | | | | | 98,460 | 96,436 | 46,894,260 | | 65.36 | 103,131 | 03 |
| | | | | | 78,928 | 78,927 | 31,360,329 | | 55.19 | 86,152 | 04 |
| | | | | | 72,571 | 71,411 | 31,432,200 | | 59.16 | 77,565 | 05 |
| | | | | | 86,804 | 84,914 | 36,447,540 | | 59.62 | 92,609 | 06 |
| | | | 17:00 | 7/09 | 93,956 | 87,107 | 40,251,790 | | 62.11 | 98,779 | 07 |
| YEAR TO DATE | | | | | 115,293 | 115,053 | 283,447,093 | 8.06 | 48.32 | 690,935 | |

| |TOTAL LINE..... | | | | |
|--------------|----------------------|------------|------------------|-------------|---------------|
| | CHARGE | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | TOTAL COST |
| CURRENT | 1,729,977.14 | 125,424.58 | 110,863.92 | .00 | 1,911,643.96 |
| | | NSNFPPA: | 41,902.11- | NSNFPPA2: | 12,719.57- |
| YEAR TO DATE | 12,074,901.35 | 927,386.04 | 792,554.39 | .00 | 13,410,204.09 |
| | | NSNFPPA: | 295,068.41- | NSNFPPA2: | 89,569.28- |

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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 P O W E R C O S T S U M M A R Y

PAGE 13
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| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F.% | | NON-COIN KW | MONTH |
|------------------|------------|----------|-------|------|-----------|--------|------------|----------|-------|-------------|--------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| Adams Lane | | | | | | | | | | | 206 KE |
| | | | | | 5,037 | 5,037 | 2,500,020 | 66.12 | 66.71 | 5,082 | 01 |
| | | | | | 5,696 | 5,536 | 2,316,880 | 60.53 | 62.28 | 5,696 | 02 |
| | | | | | 4,691 | 4,691 | 2,350,850 | 64.20 | 67.36 | 4,922 | 03 |
| | | | | | 4,262 | 4,262 | 1,962,890 | 60.42 | 63.97 | 4,512 | 04 |
| | | | | | 3,898 | 3,872 | 1,912,980 | 59.96 | 66.41 | 4,288 | 05 |
| | | | | | 4,275 | 4,333 | 2,200,910 | 65.79 | 70.55 | 4,646 | 06 |
| YEAR TO DATE | 26504680 | 28676570 | 17:00 | 7/09 | 4,390 | 4,653 | 2,171,890 | 61.64 | 62.74 | 4,736 | 07 |
| | | | | | 5,696 | 5,536 | 15,416,420 | 8.94 | | 33,882 | |
| Beda | | | | | | | | | | | 042 KE |
| | | | | | 6,409 | 6,409 | 3,344,070 | 70.13 | 70.13 | 6,409 | 01 |
| | | | | | 6,636 | 6,525 | 2,920,280 | 65.49 | 66.60 | 6,636 | 02 |
| | | | | | 5,929 | 5,929 | 3,070,650 | 69.38 | 69.61 | 5,949 | 03 |
| | | | | | 4,594 | 4,594 | 2,233,200 | 64.59 | 67.52 | 4,802 | 04 |
| | | | | | 5,288 | 5,307 | 2,256,030 | 56.58 | 57.14 | 5,359 | 05 |
| | | | | | 6,532 | 6,519 | 2,681,550 | 57.02 | 57.13 | 6,532 | 06 |
| YEAR TO DATE | 48659470 | 51554010 | 17:00 | 7/09 | 6,681 | 6,441 | 2,894,540 | 57.62 | 60.40 | 6,752 | 07 |
| | | | | | 6,681 | 6,525 | 19,400,320 | 8.98 | | 42,439 | |
| Beech Grove | | | | | | | | | | | 072 KE |
| | | | | | 3,797 | 3,797 | 2,029,970 | 71.86 | 71.86 | 3,797 | 01 |
| | | | | | 4,050 | 4,044 | 1,784,170 | 65.56 | 65.65 | 4,050 | 02 |
| | | | | | 3,376 | 3,376 | 1,868,350 | 70.84 | 74.38 | 3,545 | 03 |
| | | | | | 2,689 | 2,689 | 1,366,100 | 65.07 | 70.56 | 2,916 | 04 |
| | | | | | 2,929 | 2,890 | 1,416,400 | 60.82 | 65.87 | 3,130 | 05 |
| | | | | | 3,538 | 3,590 | 1,586,990 | 61.40 | 61.40 | 3,590 | 06 |
| YEAR TO DATE | 45431960 | 47167260 | 17:00 | 7/09 | 3,849 | 3,629 | 1,735,300 | 60.60 | 64.27 | 3,849 | 07 |
| | | | | | 4,050 | 4,044 | 11,787,280 | 9.31 | | 24,877 | |
| Bon Harbor | | | | | | | | | | | 196 KE |
| | | | | | 4,536 | 4,536 | 2,424,040 | 68.88 | 71.83 | 4,730 | 01 |
| | | | | | 4,802 | 4,581 | 2,102,410 | 65.15 | 68.29 | 4,802 | 02 |
| | | | | | 4,134 | 4,134 | 2,194,650 | 66.84 | 71.35 | 4,413 | 03 |
| | | | | | 3,272 | 3,272 | 1,654,470 | 61.89 | 70.23 | 3,713 | 04 |
| | | | | | 5,016 | 5,139 | 1,944,130 | 48.88 | 50.85 | 5,346 | 05 |
| | | | | | 6,324 | 6,221 | 2,453,410 | 52.95 | 54.77 | 6,435 | 06 |
| YEAR TO DATE | 88797130 | 91610770 | 17:00 | 7/09 | 7,361 | 6,512 | 2,813,640 | 51.38 | 58.07 | 7,361 | 07 |
| | | | | | 7,361 | 6,512 | 15,586,750 | 8.32 | | 36,800 | |
| Caldwell Springs | | | | | | | | | | | 197 KE |
| | | | | | 1,873 | 1,873 | 948,820 | 66.25 | 68.09 | 1,925 | 01 |
| | | | | | 2,022 | 1,963 | 798,700 | 58.78 | 60.55 | 2,022 | 02 |
| | | | | | 1,724 | 1,724 | 834,460 | 58.66 | 65.06 | 1,912 | 03 |
| | | | | | 1,328 | 1,328 | 571,270 | 58.04 | 59.75 | 1,367 | 04 |
| | | | | | 1,464 | 1,413 | 582,970 | 36.21 | 55.45 | 2,164 | 05 |
| | | | | | 1,827 | 1,808 | 732,790 | 51.66 | 56.29 | 1,970 | 06 |
| YEAR TO DATE | 63598460 | 64436910 | 17:00 | 7/09 | 2,262 | 1,892 | 838,450 | 48.85 | 59.56 | 2,307 | 07 |
| | | | | | 2,262 | 1,963 | 5,307,460 | 7.63 | | 13,667 | |

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BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

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| SUBSTATION | ...METER READ... | |KW DEMAND..... | |L.F.%..... | | | NON-COIN KW | MONTH | | |
|---------------|------------------|----------|---------------------|-------|-----------------|--------|-----------|----------------|--------|----------|--------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Cannelton Dam | | | | | 564 | 564 | 295,090 | 60.00 | 70.32 | 661 | 216 KE |
| | | | | | 515 | 515 | 267,760 | 64.37 | 77.37 | 619 | 01 |
| | | | | | 483 | 483 | 299,350 | 53.29 | 83.30 | 755 | 02 |
| | | | | | 437 | 437 | 287,290 | 40.80 | 91.31 | 978 | 03 |
| | | | | | 499 | 457 | 247,580 | 25.88 | 72.82 | 1,286 | 04 |
| | | | | | 1,461 | 1,173 | 270,320 | 25.70 | 32.01 | 1,461 | 05 |
| | | | | | 382 | 875 | 284,940 | 29.48 | 43.77 | 1,299 | 06 |
| | YEAR TO DATE | 6963330 | 7248270 | 17:00 | 7/09 | 1,461 | 1,173 | 1,952,330 | 5.44 | | 7,059 |
| Centertown | | | | | 2,262 | 2,262 | 1,111,510 | 64.76 | 66.05 | 2,307 | 064 KE |
| | | | | | 2,478 | 2,380 | 964,660 | 57.93 | 60.32 | 2,478 | 01 |
| | | | | | 2,115 | 2,115 | 996,160 | 63.25 | 63.31 | 2,117 | 02 |
| | | | | | 1,631 | 1,631 | 620,660 | 52.09 | 52.85 | 1,655 | 03 |
| | | | | | 1,236 | 1,272 | 575,450 | 58.51 | 60.81 | 1,322 | 04 |
| | | | | | 1,480 | 1,477 | 684,660 | 25.51 | 64.38 | 3,728 | 05 |
| | | | | | 1,680 | 1,562 | 729,180 | 57.21 | 62.75 | 1,713 | 06 |
| | YEAR TO DATE | 71151340 | 71880520 | 17:00 | 7/09 | 2,478 | 2,380 | 5,682,280 | 7.29 | | 15,320 |
| Crossroads | | | | | 4,970 | 4,970 | 2,439,930 | 65.38 | 65.99 | 5,016 | 199 KE |
| | | | | | 5,352 | 5,275 | 2,087,900 | 58.05 | 58.90 | 5,352 | 01 |
| | | | | | 4,627 | 4,627 | 2,145,600 | 62.33 | 62.33 | 4,627 | 02 |
| | | | | | 3,564 | 3,564 | 1,382,080 | 53.86 | 53.86 | 3,564 | 03 |
| | | | | | 3,415 | 3,363 | 1,378,140 | 51.41 | 55.08 | 3,603 | 04 |
| | | | | | 4,290 | 4,244 | 1,685,670 | 54.17 | 55.17 | 4,322 | 05 |
| | | | | | 4,698 | 4,296 | 1,844,650 | 52.77 | 57.71 | 4,698 | 06 |
| | YEAR TO DATE | 61316440 | 63161090 | 17:00 | 7/09 | 5,352 | 5,275 | 12,963,970 | 8.17 | | 31,182 |
| Dermont | | | | | 4,445 | 4,445 | 2,350,960 | 67.35 | 71.09 | 4,692 | 039 KE |
| | | | | | 4,640 | 4,452 | 2,037,490 | 65.34 | 68.10 | 4,640 | 01 |
| | | | | | 1,886 | 1,886 | 1,456,960 | 34.89 | 103.83 | 5,612 | 02 |
| | | | | | 1,575 | 1,575 | 947,510 | 54.45 | 83.55 | 2,417 | 03 |
| | | | | | 3,201 | 3,285 | 1,266,700 | 37.38 | 51.83 | 4,555 | 04 |
| | | | | | 6,914 | 6,940 | 2,439,770 | 48.83 | 48.83 | 6,940 | 05 |
| | | | | | 7,685 | 6,985 | 2,823,930 | 49.39 | 54.34 | 7,685 | 06 |
| | YEAR TO DATE | 81903670 | 84727600 | 17:00 | 7/09 | 7,685 | 6,985 | 13,323,320 | 7.17 | | 36,541 |
| Dixon | | | | | 4,247 | 4,247 | 2,079,500 | 65.81 | 65.81 | 4,247 | 063 KE |
| | | | | | 4,380 | 4,316 | 1,777,160 | 60.38 | 61.27 | 4,380 | 01 |
| | | | | | 3,836 | 3,836 | 1,770,190 | 61.40 | 62.03 | 3,875 | 02 |
| | | | | | 2,938 | 2,938 | 1,222,560 | 57.79 | 57.79 | 2,938 | 03 |
| | | | | | 2,851 | 2,868 | 1,264,690 | 46.91 | 59.27 | 3,624 | 04 |
| | | | | | 3,478 | 3,491 | 1,446,780 | 57.28 | 57.56 | 3,508 | 05 |
| | | | | | 3,871 | 3,668 | 1,634,420 | 56.56 | 59.89 | 3,884 | 06 |
| | YEAR TO DATE | 41000520 | 42634940 | 17:00 | 7/09 | 4,380 | 4,316 | 11,195,300 | 8.32 | | 26,456 |

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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

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| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH |
|----------------|------------|-----------|-------|------|-----------|--------|------------|----------|-------|-------------|--------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| East Owensboro | | | | | | | | | | | 204 KE |
| | | | | | 2,592 | 2,592 | 1,333,360 | 63.73 | 69.14 | 2,812 | 01 |
| | | | | | 2,722 | 2,495 | 1,161,940 | 63.52 | 69.30 | 2,722 | 02 |
| | | | | | 4,238 | 4,238 | 1,869,840 | 57.54 | 59.30 | 4,368 | 03 |
| | | | | | 3,305 | 3,305 | 1,617,700 | 58.66 | 67.98 | 3,830 | 04 |
| | | | | | 5,242 | 5,294 | 1,778,130 | 43.64 | 45.14 | 5,476 | 05 |
| | | | | | 4,076 | 4,076 | 1,559,080 | 53.13 | 53.13 | 4,076 | 06 |
| YEAR TO DATE | 27347040 | 28995370 | 17:00 | 7/09 | 4,504 | 4,199 | 1,648,330 | 49.19 | 52.76 | 4,504 | 07 |
| | | | | | 5,242 | 5,294 | 10,968,380 | 7.76 | | 27,788 | |
| Geneva | | | | | | | | | | | 029 KE |
| | | | | | 5,618 | 5,618 | 3,000,820 | 67.80 | 71.79 | 5,949 | 01 |
| | | | | | 6,279 | 6,185 | 2,483,240 | 58.85 | 59.75 | 6,279 | 02 |
| | | | | | 4,954 | 4,954 | 2,552,380 | 67.88 | 69.25 | 5,054 | 03 |
| | | | | | 3,762 | 3,762 | 1,551,200 | 57.27 | 57.27 | 3,762 | 04 |
| | | | | | 3,898 | 3,920 | 1,807,120 | 59.88 | 61.96 | 4,056 | 05 |
| | | | | | 4,792 | 4,740 | 2,136,360 | 57.88 | 62.60 | 5,126 | 06 |
| YEAR TO DATE | 98291370 | 100657180 | 17:00 | 7/09 | 5,304 | 5,184 | 2,365,810 | 59.13 | 61.34 | 5,378 | 07 |
| | | | | | 6,279 | 6,185 | 15,896,930 | 8.78 | | 35,604 | |
| Guffie | | | | | | | | | | | 033 KE |
| | | | | | 6,216 | 6,216 | 2,958,541 | 63.97 | 63.97 | 6,216 | 01 |
| | | | | | 6,458 | 6,229 | 2,552,700 | 58.82 | 60.98 | 6,458 | 02 |
| | | | | | 5,530 | 5,530 | 2,644,350 | 64.27 | 64.27 | 5,530 | 03 |
| | | | | | 3,987 | 3,987 | 1,776,080 | 60.82 | 61.87 | 4,056 | 04 |
| | | | | | 4,324 | 4,221 | 1,789,420 | 55.39 | 56.98 | 4,342 | 05 |
| | | | | | 5,322 | 5,270 | 2,233,850 | 57.27 | 58.87 | 5,417 | 06 |
| YEAR TO DATE | 3887610 | 6291050 | 17:00 | 7/09 | 5,780 | 5,361 | 2,403,440 | 55.80 | 60.26 | 5,789 | 07 |
| | | | | | 6,458 | 6,229 | 16,358,381 | 8.50 | | 37,808 | |
| Hanson | | | | | | | | | | | 012 KE |
| | | | | | 3,218 | 3,218 | 1,350,690 | 56.42 | 56.42 | 3,218 | 01 |
| | | | | | 3,164 | 3,104 | 1,164,990 | 54.79 | 55.85 | 3,164 | 02 |
| | | | | | 2,910 | 2,910 | 1,223,420 | 55.78 | 56.51 | 2,948 | 03 |
| | | | | | 2,231 | 2,231 | 787,830 | 48.72 | 49.05 | 2,246 | 04 |
| | | | | | 1,838 | 1,758 | 776,130 | 51.11 | 59.34 | 2,041 | 05 |
| | | | | | 2,141 | 2,119 | 867,580 | 49.28 | 56.87 | 2,445 | 06 |
| YEAR TO DATE | 24600910 | 25608270 | 17:00 | 7/09 | 2,316 | 2,117 | 1,007,360 | 52.28 | 63.96 | 2,590 | 07 |
| | | | | | 3,218 | 3,218 | 7,178,000 | 7.56 | | 18,652 | |
| Hawesville | | | | | | | | | | | 043 KE |
| | | | | | 6,227 | 6,227 | 3,140,890 | 66.96 | 67.80 | 6,305 | 01 |
| | | | | | 6,143 | 6,188 | 2,785,750 | 66.99 | 66.99 | 6,188 | 02 |
| | | | | | 5,612 | 5,612 | 2,879,410 | 67.87 | 68.96 | 5,702 | 03 |
| | | | | | 4,458 | 4,458 | 2,026,980 | 62.42 | 63.15 | 4,510 | 04 |
| | | | | | 5,288 | 5,314 | 2,183,950 | 55.24 | 55.24 | 5,314 | 05 |
| | | | | | 6,396 | 6,467 | 2,589,030 | 55.60 | 55.60 | 6,467 | 06 |
| YEAR TO DATE | 31248130 | 34094830 | 17:00 | 7/09 | 7,011 | 6,525 | 2,846,700 | 54.17 | 58.64 | 7,063 | 07 |
| | | | | | 7,011 | 6,525 | 18,452,710 | 8.73 | | 41,549 | |

Big Rivers Electric Corporation
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EBR105E
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BIG RIVERS ELECTRIC CORPORATION
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| SUBSTATION |METER READ..... | |KW DEMAND..... | |L.F.%..... | | | NON-COIN KW | MONTH | | |
|-------------------|----------------------|----------|---------------------|------|-----------------|--------|------------|----------------|--------|----------|-------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Horse Fork | | | | | | | | | 195 KE | | |
| | | | | | 5,867 | 5,867 | 3,409,550 | 71.11 | 78.11 | 6,445 | 01 |
| | | | | | 5,944 | 5,711 | 3,054,270 | 68.41 | 79.58 | 6,644 | 02 |
| | | | | | 5,426 | 5,426 | 3,244,350 | 67.12 | 80.37 | 6,497 | 03 |
| | | | | | 4,113 | 4,113 | 3,147,710 | 50.10 | 106.29 | 8,726 | 04 |
| | | | | | 8,251 | 8,087 | 3,686,780 | 52.96 | 61.28 | 9,357 | 05 |
| | | | | | 9,279 | 9,452 | 3,898,790 | 56.06 | 57.29 | 9,660 | 06 |
| | 32030020 | 36124190 | 17:00 | 7/09 | 9,331 | 9,487 | 4,094,170 | 56.87 | 58.00 | 9,677 | 07 |
| YEAR TO DATE | | | | | 9,331 | 9,487 | 24,535,620 | 8.46 | | 57,006 | |
| Hudson Substation | | | | | | | | | | 187 KE | |
| | | | | | 4,102 | 4,102 | 2,813,780 | 72.33 | 92.20 | 5,229 | 01 |
| | | | | | 4,160 | 4,290 | 2,532,180 | 71.53 | 87.84 | 5,268 | 02 |
| | | | | | 4,270 | 4,270 | 2,683,420 | 66.11 | 84.47 | 5,456 | 03 |
| | | | | | 4,219 | 4,219 | 2,444,500 | 57.20 | 80.47 | 5,936 | 04 |
| | | | | | 3,933 | 4,115 | 2,583,460 | 71.35 | 84.38 | 4,867 | 05 |
| | | | | | 4,407 | 4,439 | 2,609,150 | 52.76 | 81.64 | 6,869 | 06 |
| | 17280310 | 19964640 | 17:00 | 7/09 | 4,633 | 4,413 | 2,684,330 | 67.90 | 81.76 | 5,314 | 07 |
| YEAR TO DATE | | | | | 4,633 | 4,439 | 18,350,820 | 9.26 | | 38,939 | |
| Lewisport | | | | | | | | | | 057 KE | |
| | | | | | 7,005 | 7,005 | 3,778,910 | 72.31 | 72.51 | 7,024 | 01 |
| | | | | | 7,018 | 6,487 | 3,351,860 | 71.07 | 76.89 | 7,018 | 02 |
| | | | | | 6,480 | 6,480 | 3,503,160 | 71.23 | 72.66 | 6,610 | 03 |
| | | | | | 5,476 | 5,476 | 2,736,750 | 64.82 | 69.41 | 5,864 | 04 |
| | | | | | 6,292 | 6,046 | 2,901,190 | 57.58 | 64.50 | 6,772 | 05 |
| | | | | | 7,206 | 7,232 | 3,348,330 | 58.92 | 64.30 | 7,893 | 06 |
| | 86820740 | 90284480 | 17:00 | 7/09 | 7,277 | 7,245 | 3,463,740 | 58.89 | 64.26 | 7,906 | 07 |
| YEAR TO DATE | | | | | 7,277 | 7,245 | 23,083,940 | 9.24 | | 49,087 | |
| Little Dixie | | | | | | | | | | 024 KE | |
| | | | | | 3,102 | 3,102 | 1,539,880 | 66.72 | 66.72 | 3,102 | 01 |
| | | | | | 3,154 | 3,162 | 1,332,410 | 62.71 | 62.71 | 3,162 | 02 |
| | | | | | 2,549 | 2,549 | 1,382,350 | 67.93 | 72.89 | 2,735 | 03 |
| | | | | | 2,043 | 2,043 | 987,130 | 63.74 | 67.11 | 2,151 | 04 |
| | | | | | 2,290 | 2,268 | 1,026,430 | 59.03 | 60.83 | 2,337 | 05 |
| | | | | | 2,709 | 2,739 | 1,222,890 | 59.12 | 62.01 | 2,873 | 06 |
| | 10938110 | 12275350 | 17:00 | 7/09 | 2,981 | 2,834 | 1,337,240 | 60.13 | 63.42 | 2,989 | 07 |
| YEAR TO DATE | | | | | 3,154 | 3,162 | 8,828,330 | 8.97 | | 19,349 | |
| Lyon County | | | | | | | | | | 018 KE | |
| | | | | | 3,927 | 3,927 | 1,858,880 | 61.07 | 63.62 | 4,091 | 01 |
| | | | | | 4,303 | 4,203 | 1,641,370 | 56.76 | 58.11 | 4,303 | 02 |
| | | | | | 3,871 | 3,871 | 1,831,894 | 63.48 | 63.61 | 3,879 | 03 |
| | | | | | 3,054 | 3,054 | 1,347,150 | 60.49 | 61.27 | 3,093 | 04 |
| | | | | | 3,313 | 3,344 | 1,450,270 | 54.36 | 58.29 | 3,586 | 05 |
| | | | | | 4,113 | 4,035 | 1,773,370 | 56.50 | 61.04 | 4,359 | 06 |
| | 5984270 | 7900850 | 17:00 | 7/09 | 4,553 | 4,242 | 1,916,580 | 54.55 | 60.73 | 4,722 | 07 |
| YEAR TO DATE | | | | | 4,553 | 4,242 | 11,819,514 | 8.29 | | 28,033 | |

Big Rivers Electric Corporation
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EBR105B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
POWER COST SUMMARY

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| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH |
|--------------|------------|----------|-------|------|-----------|--------|------------|----------|-------|-------------|--------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| Maceo | | | | | | | | | | | 198 KE |
| | | | | | 2,838 | 2,838 | 1,426,840 | 60.65 | 67.58 | 3,162 | 01 |
| | | | | | 3,026 | 3,046 | 1,238,090 | 60.11 | 60.49 | 3,065 | 02 |
| | | | | | 2,592 | 2,592 | 1,257,440 | 64.09 | 65.20 | 2,637 | 03 |
| | | | | | 2,015 | 2,015 | 814,440 | 54.05 | 56.14 | 2,093 | 04 |
| | | | | | 2,216 | 2,203 | 827,790 | 49.63 | 50.50 | 2,242 | 05 |
| | | | | | 2,748 | 2,741 | 1,036,470 | 51.78 | 52.52 | 2,780 | 06 |
| YEAR TO DATE | 87260 | 1255330 | 17:00 | 7/09 | 3,072 | 2,760 | 1,168,070 | 51.11 | 56.88 | 3,072 | 07 |
| | | | | | 3,072 | 3,046 | 7,769,140 | 8.02 | | 19,051 | |
| Madisonville | | | | | | | | | | | 209 KE |
| | | | | | 4,387 | 4,387 | 2,368,070 | 63.87 | 72.55 | 4,983 | 01 |
| | | | | | 4,692 | 4,575 | 2,031,010 | 60.57 | 66.06 | 4,990 | 02 |
| | | | | | 4,154 | 4,154 | 2,161,890 | 67.23 | 69.95 | 4,322 | 03 |
| | | | | | 3,441 | 3,441 | 1,728,910 | 65.70 | 69.78 | 3,655 | 04 |
| | | | | | 3,370 | 3,460 | 1,803,480 | 70.06 | 70.06 | 3,460 | 05 |
| | | | | | 3,700 | 3,674 | 1,899,350 | 69.00 | 71.80 | 3,823 | 06 |
| YEAR TO DATE | 35448230 | 37493050 | 17:00 | 7/09 | 3,933 | 3,888 | 2,044,820 | 67.33 | 70.69 | 4,082 | 07 |
| | | | | | 4,692 | 4,575 | 14,037,530 | 9.41 | | 29,315 | |
| Marion | | | | | | | | | | | 017 KE |
| | | | | | 5,761 | 5,761 | 2,830,610 | 66.04 | 66.04 | 5,761 | 01 |
| | | | | | 6,318 | 6,085 | 2,426,360 | 57.15 | 59.34 | 6,318 | 02 |
| | | | | | 5,216 | 5,216 | 2,605,820 | 61.71 | 67.15 | 5,676 | 03 |
| | | | | | 3,914 | 3,914 | 1,729,690 | 57.12 | 61.38 | 4,206 | 04 |
| | | | | | 3,745 | 3,966 | 1,578,410 | 52.63 | 53.49 | 4,031 | 05 |
| | | | | | 5,080 | 5,080 | 1,985,180 | 53.05 | 54.28 | 5,197 | 06 |
| YEAR TO DATE | 88025880 | 90163200 | 17:00 | 7/09 | 5,502 | 5,113 | 2,137,320 | 52.21 | 56.19 | 5,502 | 07 |
| | | | | | 6,318 | 6,085 | 15,293,390 | 8.19 | | 36,691 | |
| Masonville | | | | | | | | | | | 034 KE |
| | | | | | 2,961 | 2,961 | 1,682,814 | 64.75 | 76.39 | 3,493 | 01 |
| | | | | | 3,104 | 2,897 | 1,466,140 | 70.29 | 75.31 | 3,104 | 02 |
| | | | | | 2,676 | 2,676 | 1,564,310 | 67.74 | 78.57 | 3,104 | 03 |
| | | | | | 2,164 | 2,164 | 1,270,810 | 56.75 | 81.56 | 3,110 | 04 |
| | | | | | 4,342 | 4,400 | 1,571,580 | 47.94 | 48.01 | 4,406 | 05 |
| | | | | | 5,495 | 5,398 | 2,082,170 | 52.38 | 53.57 | 5,521 | 06 |
| YEAR TO DATE | 11761440 | 14392770 | 17:00 | 7/09 | 6,895 | 5,845 | 2,631,330 | 51.29 | 60.51 | 6,895 | 07 |
| | | | | | 6,895 | 5,845 | 12,269,154 | 8.14 | | 29,633 | |
| Morganfield | | | | | | | | | | | 015 KE |
| | | | | | 8,126 | 8,126 | 4,111,080 | 68.00 | 68.00 | 8,126 | 01 |
| | | | | | 8,443 | 8,210 | 3,606,670 | 63.57 | 65.37 | 8,443 | 02 |
| | | | | | 7,225 | 7,225 | 3,834,050 | 71.26 | 71.33 | 7,232 | 03 |
| | | | | | 5,664 | 5,664 | 2,778,270 | 68.05 | 68.13 | 5,670 | 04 |
| | | | | | 5,890 | 5,968 | 2,853,230 | 61.77 | 64.26 | 6,208 | 05 |
| | | | | | 7,225 | 7,225 | 3,323,330 | 62.87 | 63.89 | 7,342 | 06 |
| YEAR TO DATE | 79478910 | 83100980 | 17:00 | 7/09 | 7,770 | 7,595 | 3,622,070 | 61.58 | 64.10 | 7,906 | 07 |
| | | | | | 8,443 | 8,210 | 24,128,700 | 9.31 | | 50,927 | |

Big Rivers Electric Corporation
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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

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| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH |
|----------------|------------|-----------|-------|------|-----------|--------|------------|----------|-------|-------------|--------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| Niagara | | | | | 6,474 | 6,474 | 3,029,920 | 62.85 | 62.91 | 6,480 | 014 KE |
| | | | | | 7,147 | 6,940 | 2,617,370 | 54.50 | 56.12 | 7,147 | 02 |
| | | | | | 5,748 | 5,748 | 2,695,670 | 62.54 | 63.03 | 5,793 | 03 |
| | | | | | 4,044 | 4,044 | 1,590,380 | 51.80 | 54.62 | 4,264 | 04 |
| | | | | | 4,147 | 4,134 | 1,759,300 | 52.50 | 57.20 | 4,504 | 05 |
| | | | | | 5,372 | 5,359 | 2,124,790 | 54.61 | 55.07 | 5,404 | 06 |
| YEAR TO DATE | 462040 | 2793520 | 17:00 | 7/09 | 5,748 | 5,378 | 2,331,480 | 54.22 | 58.27 | 5,780 | 07 |
| | | | | | 7,147 | 6,940 | 16,148,910 | 8.06 | | 39,372 | |
| Nuckols | | | | | 4,692 | 4,692 | 2,267,180 | 64.95 | 64.95 | 4,692 | 069 KE |
| | | | | | 5,087 | 4,951 | 1,931,020 | 56.49 | 58.04 | 5,087 | 02 |
| | | | | | 4,620 | 4,620 | 2,122,550 | 59.73 | 61.75 | 4,776 | 03 |
| | | | | | 3,655 | 3,655 | 1,579,460 | 60.02 | 60.02 | 3,655 | 04 |
| | | | | | 3,499 | 3,499 | 1,566,970 | 59.53 | 60.19 | 3,538 | 05 |
| | | | | | 4,264 | 4,244 | 1,855,770 | 60.26 | 60.73 | 4,277 | 06 |
| YEAR TO DATE | 71406320 | 73309740 | 17:00 | 7/09 | 4,517 | 3,940 | 1,903,420 | 56.64 | 64.93 | 4,517 | 07 |
| | | | | | 5,087 | 4,951 | 13,226,370 | 8.51 | | 30,542 | |
| Onton | | | | | 4,766 | 4,766 | 2,353,150 | 65.25 | 66.36 | 4,847 | 011 KE |
| | | | | | 5,187 | 5,184 | 2,030,010 | 58.24 | 58.27 | 5,187 | 02 |
| | | | | | 4,254 | 4,254 | 2,090,800 | 62.63 | 66.06 | 4,487 | 03 |
| | | | | | 3,175 | 3,175 | 1,370,350 | 55.22 | 59.95 | 3,447 | 04 |
| | | | | | 3,068 | 3,068 | 1,344,020 | 54.71 | 58.88 | 3,302 | 05 |
| | | | | | 3,684 | 3,710 | 1,593,540 | 55.68 | 59.66 | 3,975 | 06 |
| YEAR TO DATE | 53584220 | 55320080 | 17:00 | 7/09 | 3,823 | 3,791 | 1,735,860 | 58.17 | 61.54 | 4,011 | 07 |
| | | | | | 5,187 | 5,184 | 12,517,730 | 8.41 | | 29,256 | |
| Philpot | | | | | 6,856 | 6,856 | 3,403,830 | 66.73 | 66.73 | 6,856 | 059 KE |
| | | | | | 6,869 | 6,726 | 2,992,770 | 64.84 | 66.21 | 6,869 | 02 |
| | | | | | 5,910 | 5,910 | 3,119,470 | 68.98 | 70.94 | 6,078 | 03 |
| | | | | | 4,795 | 4,795 | 2,410,120 | 67.26 | 69.81 | 4,977 | 04 |
| | | | | | 6,376 | 6,331 | 2,652,740 | 55.41 | 56.32 | 6,435 | 05 |
| | | | | | 7,653 | 7,724 | 3,196,270 | 57.47 | 57.47 | 7,724 | 06 |
| YEAR TO DATE | 163082190 | 166605260 | 17:00 | 7/09 | 8,249 | 8,029 | 3,523,070 | 56.74 | 58.98 | 8,346 | 07 |
| | | | | | 8,249 | 8,029 | 21,298,270 | 8.85 | | 47,285 | |
| Pleasant Ridge | | | | | 4,517 | 4,517 | 2,209,000 | 65.46 | 65.73 | 4,536 | 200 KE |
| | | | | | 4,964 | 4,834 | 1,905,060 | 57.11 | 58.65 | 4,964 | 02 |
| | | | | | 4,180 | 4,180 | 1,986,510 | 63.88 | 63.88 | 4,180 | 03 |
| | | | | | 3,221 | 3,221 | 1,236,040 | 52.26 | 53.30 | 3,285 | 04 |
| | | | | | 3,169 | 3,195 | 1,241,740 | 50.81 | 52.24 | 3,285 | 05 |
| | | | | | 3,836 | 3,810 | 1,513,720 | 41.60 | 55.18 | 5,054 | 06 |
| YEAR TO DATE | 46146140 | 47840590 | 17:00 | 7/09 | 4,303 | 4,056 | 1,694,450 | 52.85 | 56.15 | 4,309 | 07 |
| | | | | | 4,964 | 4,834 | 11,786,520 | 7.82 | | 29,613 | |

Big Rivers Electric Corporation
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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

PAGE 19
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| SUBSTATION | ... METER READ ... | | KW DEMAND | | L.F. % | | | NON-COIN KW | MONTH | | |
|--------------|--------------------|----------|-----------------------|------|--------------------|--------|------------|----------------|--------|----------|--------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Providence | | | | | 4,972 | 4,972 | 2,365,600 | 63.07 | 63.95 | 5,041 | 019 KE |
| | | | | | 5,419 | 5,338 | 2,010,270 | 55.20 | 56.04 | 5,419 | 02 |
| | | | | | 4,600 | 4,600 | 2,053,250 | 59.99 | 59.99 | 4,600 | 03 |
| | | | | | 3,267 | 3,267 | 1,303,310 | 55.41 | 55.41 | 3,267 | 04 |
| | | | | | 3,323 | 3,218 | 1,309,760 | 52.01 | 54.71 | 3,385 | 05 |
| | | | | | 3,949 | 3,987 | 1,562,740 | 54.19 | 54.44 | 4,005 | 06 |
| YEAR TO DATE | 35939830 | 37671910 | 17:00 | 7/09 | 4,222 | 3,949 | 1,732,080 | 53.49 | 58.95 | 4,352 | 07 |
| | | | | | 5,419 | 5,338 | 12,337,010 | 8.06 | | 30,069 | |
| Race Creek | | | | | 4,925 | 4,925 | 2,315,890 | 63.20 | 63.20 | 4,925 | 067 KE |
| | | | | | 5,268 | 5,054 | 2,003,270 | 56.59 | 58.98 | 5,268 | 02 |
| | | | | | 4,335 | 4,335 | 2,060,990 | 55.23 | 63.90 | 5,016 | 03 |
| | | | | | 3,227 | 3,227 | 1,397,100 | 58.94 | 60.13 | 3,292 | 04 |
| | | | | | 3,927 | 3,882 | 1,555,700 | 51.55 | 53.86 | 4,056 | 05 |
| | | | | | 4,847 | 4,750 | 1,909,460 | 54.64 | 55.83 | 4,854 | 06 |
| YEAR TO DATE | 76461950 | 78504370 | 17:00 | 7/09 | 5,229 | 4,918 | 2,117,786 | 54.03 | 57.88 | 5,268 | 07 |
| | | | | | 5,268 | 5,054 | 13,360,196 | 8.04 | | 32,679 | |
| Riverport | | | | | 1,438 | 1,438 | 986,930 | 66.03 | 92.25 | 2,009 | 023 KE |
| | | | | | 1,362 | 1,212 | 924,797 | 55.31 | 113.55 | 2,488 | 02 |
| | | | | | 1,659 | 1,659 | 954,510 | 66.03 | 77.33 | 1,943 | 03 |
| | | | | | 1,249 | 1,249 | 1,013,940 | 42.34 | 112.75 | 3,326 | 04 |
| | | | | | 1,185 | 1,077 | 902,580 | 63.35 | 112.64 | 1,915 | 05 |
| | | | | | 1,273 | 1,363 | 892,250 | 67.13 | 90.92 | 1,846 | 06 |
| YEAR TO DATE | 21980550 | 21071680 | 17:00 | 7/09 | 1,181 | 1,088 | 908,870 | 66.10 | 112.28 | 1,848 | 07 |
| | | | | | 1,659 | 1,659 | 6,583,877 | 8.42 | | 15,375 | |
| Sacramento | | | | | 2,916 | 2,916 | 1,452,200 | 66.12 | 66.94 | 2,952 | 071 KE |
| | | | | | 3,159 | 3,107 | 1,267,750 | 59.72 | 60.72 | 3,159 | 02 |
| | | | | | 2,780 | 2,780 | 1,337,600 | 64.14 | 64.67 | 2,803 | 03 |
| | | | | | 1,963 | 1,963 | 850,450 | 60.17 | 60.17 | 1,963 | 04 |
| | | | | | 2,061 | 2,074 | 858,670 | 53.81 | 55.65 | 2,145 | 05 |
| | | | | | 2,615 | 2,595 | 1,081,050 | 57.29 | 57.86 | 2,621 | 06 |
| YEAR TO DATE | 85388380 | 86570020 | 17:00 | 7/09 | 2,806 | 2,644 | 1,181,640 | 56.60 | 60.07 | 2,806 | 07 |
| | | | | | 3,159 | 3,107 | 8,029,360 | 8.55 | | 18,449 | |
| Sebree | | | | | 4,082 | 4,082 | 2,094,080 | 68.95 | 68.95 | 4,082 | 013 KE |
| | | | | | 4,478 | 4,361 | 1,809,940 | 60.15 | 61.76 | 4,478 | 02 |
| | | | | | 3,700 | 3,700 | 1,882,050 | 66.27 | 68.37 | 3,817 | 03 |
| | | | | | 2,965 | 2,965 | 1,374,280 | 63.48 | 64.38 | 3,007 | 04 |
| | | | | | 2,770 | 2,812 | 1,340,550 | 59.86 | 64.08 | 3,010 | 05 |
| | | | | | 3,606 | 3,600 | 1,582,570 | 59.04 | 61.06 | 3,723 | 06 |
| YEAR TO DATE | 47244600 | 48992250 | 17:00 | 7/09 | 4,063 | 3,797 | 1,747,650 | 57.81 | 61.86 | 4,063 | 07 |
| | | | | | 4,478 | 4,361 | 11,831,120 | 8.88 | | 26,180 | |

Big Rivers Electric Corporation
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BIG RIVERS ELECTRIC CORPORATION
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| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH |
|-----------------|------------|-----------|-------|------|-----------|--------|------------|----------|--------|-------------|--------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| South Dermont | | | | | | | | | | | 065 KE |
| | | | | | 6,720 | 6,720 | 4,429,320 | 70.24 | 88.59 | 8,476 | 01 |
| | | | | | 6,979 | 6,584 | 3,899,920 | 71.30 | 88.14 | 8,139 | 02 |
| | | | | | 6,260 | 6,260 | 4,131,700 | 69.00 | 88.71 | 8,048 | 03 |
| | | | | | 5,022 | 5,022 | 3,884,350 | 57.94 | 107.43 | 9,312 | 04 |
| | | | | | 12,377 | 12,480 | 4,836,140 | 52.08 | 52.08 | 12,480 | 05 |
| | | | | | 14,865 | 14,930 | 5,909,500 | 54.78 | 54.97 | 14,982 | 06 |
| YEAR TO DATE | 49522430 | 56010670 | 17:00 | 7/09 | 15,682 | 15,092 | 6,488,240 | 55.29 | 57.78 | 15,772 | 07 |
| | | | | | 15,682 | 15,092 | 33,579,170 | 8.55 | | 77,209 | |
| South Hanson | | | | | | | | | | | 020 KE |
| | | | | | 12,001 | 12,001 | 5,347,200 | 59.89 | 59.89 | 12,001 | 01 |
| | | | | | 12,999 | 12,895 | 4,528,040 | 51.84 | 52.25 | 12,999 | 02 |
| | | | | | 10,822 | 10,822 | 4,660,110 | 57.88 | 57.88 | 10,822 | 03 |
| | | | | | 7,705 | 7,705 | 3,024,040 | 54.51 | 54.51 | 7,705 | 04 |
| | | | | | 6,908 | 6,649 | 3,073,790 | 54.17 | 62.14 | 7,627 | 05 |
| | | | | | 8,891 | 8,780 | 3,720,390 | 57.57 | 58.85 | 8,975 | 06 |
| YEAR TO DATE | 60651380 | 64575310 | 17:00 | 7/09 | 9,441 | 8,593 | 3,923,930 | 55.59 | 61.38 | 9,487 | 07 |
| | | | | | 12,999 | 12,895 | 28,277,500 | 7.98 | | 69,616 | |
| South Owensboro | | | | | | | | | | | 062 KE |
| | | | | | 4,970 | 4,970 | 3,765,440 | 69.98 | 101.83 | 7,232 | 01 |
| | | | | | 5,210 | 5,002 | 3,323,680 | 69.26 | 98.88 | 7,141 | 02 |
| | | | | | 4,588 | 4,588 | 3,572,810 | 69.65 | 104.67 | 6,895 | 03 |
| | | | | | 3,953 | 3,953 | 3,452,750 | 59.53 | 121.31 | 8,055 | 04 |
| | | | | | 9,182 | 9,117 | 4,070,350 | 59.58 | 60.01 | 9,182 | 05 |
| | | | | | 10,426 | 10,413 | 4,575,470 | 60.46 | 61.03 | 10,511 | 06 |
| YEAR TO DATE | 175206610 | 180092350 | 17:00 | 7/09 | 10,705 | 10,329 | 4,885,740 | 61.20 | 63.58 | 10,731 | 07 |
| | | | | | 10,705 | 10,413 | 27,646,240 | 9.09 | | 59,747 | |
| St. Joe | | | | | | | | | | | 036 KE |
| | | | | | 3,720 | 3,720 | 1,929,560 | 68.70 | 69.72 | 3,775 | 01 |
| | | | | | 3,872 | 3,784 | 1,698,160 | 65.26 | 66.78 | 3,872 | 02 |
| | | | | | 3,441 | 3,441 | 1,790,010 | 69.60 | 69.92 | 3,457 | 03 |
| | | | | | 2,796 | 2,796 | 1,446,570 | 70.30 | 71.86 | 2,858 | 04 |
| | | | | | 3,447 | 3,386 | 1,603,330 | 62.52 | 63.64 | 3,447 | 05 |
| | | | | | 4,018 | 3,972 | 1,911,240 | 59.98 | 66.83 | 4,426 | 06 |
| YEAR TO DATE | 38909750 | 41037300 | 17:00 | 7/09 | 4,594 | 4,342 | 2,127,550 | 62.25 | 65.86 | 4,594 | 07 |
| | | | | | 4,594 | 4,342 | 12,506,420 | 9.30 | | 26,429 | |
| Stanley | | | | | | | | | | | 028 KE |
| | | | | | 2,479 | 2,479 | 1,252,850 | 65.70 | 67.93 | 2,563 | 01 |
| | | | | | 2,686 | 2,670 | 1,096,200 | 60.73 | 61.10 | 2,686 | 02 |
| | | | | | 2,265 | 2,265 | 1,148,670 | 62.61 | 68.16 | 2,466 | 03 |
| | | | | | 1,737 | 1,737 | 779,190 | 45.13 | 62.30 | 2,398 | 04 |
| | | | | | 1,853 | 1,889 | 799,560 | 44.04 | 56.89 | 2,440 | 05 |
| | | | | | 2,440 | 2,462 | 994,300 | 56.09 | 56.09 | 2,462 | 06 |
| YEAR TO DATE | 96535750 | 97595540 | 17:00 | 7/09 | 2,521 | 2,343 | 1,059,790 | 54.68 | 60.80 | 2,605 | 07 |
| | | | | | 2,686 | 2,670 | 7,130,560 | 7.95 | | 17,620 | |

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EBR105B
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BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

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| SUBSTATION | ...METER READ.... | |KW DEMAND..... | |L.F.%..... | | | NON-COIN KW | MONTH | | |
|--------------|-------------------|----------|---------------------|------|-----------------|--------|------------|----------------|--------|----------|--------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| Sullivan | | | | | | | | | 027 KE | | |
| | | | | | 2,404 | 2,404 | 1,172,490 | 65.55 | 65.55 | 2,404 | 01 |
| | | | | | 2,586 | 2,456 | 987,140 | 56.80 | 59.81 | 2,586 | 02 |
| | | | | | 2,087 | 2,087 | 1,012,680 | 65.03 | 65.22 | 2,093 | 03 |
| | | | | | 1,601 | 1,601 | 677,910 | 56.75 | 58.81 | 1,659 | 04 |
| | | | | | 1,646 | 1,678 | 697,220 | 54.17 | 55.85 | 1,730 | 05 |
| | | | | | 2,093 | 2,106 | 882,410 | 54.49 | 58.19 | 2,249 | 06 |
| YEAR TO DATE | 98238270 | 99211540 | 17:00 | 7/09 | 2,242 | 2,100 | 973,270 | 56.56 | 62.29 | 2,313 | 07 |
| | | | | | 2,586 | 2,456 | 6,403,120 | 8.37 | | 15,034 | |
| Thruston | | | | | | | | | | | 035 KE |
| | | | | | 7,471 | 7,471 | 3,625,320 | 65.22 | 65.22 | 7,471 | 01 |
| | | | | | 7,938 | 7,666 | 3,198,620 | 59.96 | 62.09 | 7,938 | 02 |
| | | | | | 6,584 | 6,584 | 3,252,030 | 65.62 | 66.39 | 6,661 | 03 |
| | | | | | 5,067 | 5,067 | 2,322,250 | 59.61 | 63.65 | 5,411 | 04 |
| | | | | | 6,344 | 6,363 | 2,468,020 | 51.50 | 52.13 | 6,441 | 05 |
| | | | | | 7,633 | 7,653 | 3,048,620 | 54.18 | 55.33 | 7,815 | 06 |
| YEAR TO DATE | 52910750 | 56327190 | 17:00 | 7/09 | 8,048 | 7,750 | 3,416,440 | 54.72 | 59.25 | 8,392 | 07 |
| | | | | | 8,048 | 7,750 | 21,331,300 | 8.36 | | 50,129 | |
| Utica | | | | | | | | | | | 031 KE |
| | | | | | 5,890 | 5,890 | 2,748,080 | 62.71 | 62.71 | 5,890 | 01 |
| | | | | | 6,357 | 6,273 | 2,369,140 | 55.46 | 56.20 | 6,357 | 02 |
| | | | | | 5,158 | 5,158 | 2,443,070 | 63.58 | 63.66 | 5,165 | 03 |
| | | | | | 3,907 | 3,907 | 1,574,630 | 55.42 | 55.98 | 3,946 | 04 |
| | | | | | 4,031 | 4,069 | 1,593,840 | 52.65 | 52.65 | 4,069 | 05 |
| | | | | | 4,944 | 4,925 | 2,002,710 | 55.39 | 56.48 | 5,022 | 06 |
| YEAR TO DATE | 86388270 | 88584490 | 17:00 | 7/09 | 5,482 | 5,074 | 2,196,220 | 53.85 | 58.18 | 5,482 | 07 |
| | | | | | 6,357 | 6,273 | 14,927,690 | 8.17 | | 35,931 | |
| Weaverton | | | | | | | | | | | 022 KE |
| | | | | | 4,335 | 4,335 | 2,080,050 | 64.49 | 64.49 | 4,335 | 01 |
| | | | | | 4,614 | 4,594 | 1,806,130 | 58.25 | 58.50 | 4,614 | 02 |
| | | | | | 3,739 | 3,739 | 1,858,980 | 64.58 | 66.83 | 3,869 | 03 |
| | | | | | 2,793 | 2,793 | 1,266,900 | 62.86 | 63.00 | 2,799 | 04 |
| | | | | | 3,253 | 3,253 | 1,354,560 | 51.65 | 55.97 | 3,525 | 05 |
| | | | | | 4,115 | 4,102 | 1,650,630 | 55.54 | 55.89 | 4,128 | 06 |
| YEAR TO DATE | 48501120 | 50325460 | 17:00 | 7/09 | 4,335 | 4,413 | 1,824,340 | 55.16 | 55.56 | 4,445 | 07 |
| | | | | | 4,614 | 4,594 | 11,841,590 | 8.40 | | 27,715 | |
| Weberstown | | | | | | | | | | | 044 KE |
| | | | | | 6,005 | 6,005 | 2,896,190 | 63.33 | 64.82 | 6,147 | 01 |
| | | | | | 6,087 | 6,000 | 2,561,990 | 62.63 | 63.54 | 6,087 | 02 |
| | | | | | 5,638 | 5,638 | 2,609,190 | 61.79 | 62.20 | 5,676 | 03 |
| | | | | | 4,463 | 4,463 | 1,657,140 | 50.70 | 51.57 | 4,540 | 04 |
| | | | | | 3,715 | 3,745 | 1,536,580 | 53.48 | 55.15 | 3,862 | 05 |
| | | | | | 4,730 | 4,812 | 1,828,280 | 52.77 | 52.77 | 4,812 | 06 |
| YEAR TO DATE | 82598910 | 84615030 | 17:00 | 7/09 | 5,020 | 4,679 | 2,016,120 | 51.37 | 57.91 | 5,275 | 07 |
| | | | | | 6,087 | 6,005 | 15,105,490 | 8.16 | | 36,399 | |

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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 POWER COST SUMMARY

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| SUBSTATION |METER READ.... | |KW DEMAND..... | |L.F. %..... | | | NON-COIN KW | MONTH | | |
|----------------|--------------------|----------|---------------------|------|------------------|--------|------------|----------------|--------|----------|--------|
| | PREVIOUS | PRESENT | TIME | DAY | ACTUAL | BILLED | KWH USED | | | NON-COIN | COIN. |
| West Owensboro | | | | | 5,119 | 5,119 | 2,655,940 | 69.74 | 69.74 | 5,119 | 030 KE |
| | | | | | 5,249 | 5,048 | 2,309,850 | 65.48 | 68.09 | 5,249 | 02 |
| | | | | | 4,491 | 4,491 | 2,435,410 | 65.35 | 72.89 | 5,009 | 03 |
| | | | | | 3,486 | 3,486 | 1,832,110 | 65.77 | 72.99 | 3,869 | 04 |
| | | | | | 5,391 | 5,255 | 2,047,290 | 51.04 | 52.36 | 5,391 | 05 |
| | | | | | 6,564 | 6,623 | 2,610,330 | 54.74 | 54.74 | 6,623 | 06 |
| | 9222830 | 12103840 | 17:00 | 7/09 | 7,154 | 6,610 | 2,881,010 | 53.45 | 58.58 | 7,245 | 07 |
| YEAR TO DATE | | | | | 7,154 | 6,623 | 16,771,940 | 8.56 | | 38,505 | |
| Whitesville | | | | | 6,402 | 6,402 | 3,153,970 | 66.22 | 66.22 | 6,402 | 040 KE |
| | | | | | 6,966 | 6,823 | 2,765,490 | 59.08 | 60.32 | 6,966 | 02 |
| | | | | | 5,793 | 5,793 | 2,867,350 | 65.72 | 66.53 | 5,864 | 03 |
| | | | | | 4,549 | 4,549 | 1,944,330 | 59.29 | 59.36 | 4,555 | 04 |
| | | | | | 4,711 | 4,847 | 1,959,830 | 54.35 | 54.35 | 4,847 | 05 |
| | | | | | 6,143 | 6,091 | 2,413,030 | 54.56 | 55.02 | 6,143 | 06 |
| | 26508560 | 29170260 | 17:00 | 7/09 | 6,629 | 6,247 | 2,661,700 | 53.86 | 57.27 | 6,642 | 07 |
| YEAR TO DATE | | | | | 6,966 | 6,823 | 17,765,700 | 8.43 | | 41,419 | |
| Wolf Hills | | | | | 2,323 | 2,323 | 1,171,350 | 67.77 | 67.77 | 2,323 | 201 KE |
| | | | | | 2,458 | 2,387 | 1,028,870 | 62.29 | 64.14 | 2,458 | 02 |
| | | | | | 2,035 | 2,035 | 1,062,640 | 70.19 | 70.19 | 2,035 | 03 |
| | | | | | 1,517 | 1,517 | 791,830 | 68.74 | 72.50 | 1,600 | 04 |
| | | | | | 2,003 | 1,990 | 917,990 | 60.07 | 62.00 | 2,054 | 05 |
| | | | | | 2,438 | 2,432 | 1,132,370 | 62.21 | 64.67 | 2,528 | 06 |
| | 242800 | 1593740 | 17:00 | 7/09 | 2,778 | 2,592 | 1,350,940 | 53.33 | 70.05 | 3,405 | 07 |
| YEAR TO DATE | | | | | 2,778 | 2,592 | 7,455,990 | 8.93 | | 16,403 | |
| Yeager | | | | | 44 | 44 | 29,040 | 31.48 | 88.71 | 124 | 191 KE |
| | | | | | 46 | 49 | 25,440 | 31.03 | 77.26 | 122 | 02 |
| | | | | | 39 | 39 | 25,460 | 26.12 | 87.74 | 131 | 03 |
| | | | | | 28 | 28 | 17,026 | 22.10 | 84.45 | 107 | 04 |
| | | | | | 20 | 21 | 16,270 | 22.54 | 104.13 | 97 | 05 |
| | | | | | 17 | 22 | 18,890 | 23.22 | 119.26 | 113 | 06 |
| | 1691320 | 1709570 | 17:00 | 7/09 | 18 | 21 | 18,250 | 22.10 | 116.81 | 111 | 07 |
| YEAR TO DATE | | | | | 46 | 49 | 150,376 | 3.67 | | 805 | |
| Zion | | | | | 6,966 | 6,966 | 3,376,600 | 63.55 | 65.15 | 7,141 | 025 KE |
| | | | | | 7,400 | 7,309 | 2,938,590 | 59.09 | 59.83 | 7,400 | 02 |
| | | | | | 6,026 | 6,026 | 3,002,640 | 65.15 | 66.97 | 6,195 | 03 |
| | | | | | 4,640 | 4,640 | 1,992,380 | 52.92 | 59.64 | 5,229 | 04 |
| | | | | | 5,016 | 5,022 | 2,015,760 | 53.12 | 53.95 | 5,100 | 05 |
| | | | | | 6,117 | 6,085 | 2,411,820 | 54.76 | 55.05 | 6,117 | 06 |
| | 27900870 | 30579670 | 17:00 | 7/09 | 6,577 | 6,072 | 2,678,800 | 53.95 | 59.30 | 6,674 | 07 |
| YEAR TO DATE | | | | | 7,400 | 7,309 | 18,416,590 | 8.25 | | 43,856 | |

Big Rivers Electric Corporation
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EER105B
MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
P O W E R C O S T S U M M A R Y

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| SUBSTATION | METER READ | | TIME | DAY | KW DEMAND | | KWH USED | L.F. % | | NON-COIN KW | MONTH |
|--------------|------------|---------|-------|------|-----------|---------|-------------|----------|-------|-------------|-------|
| | PREVIOUS | PRESENT | | | ACTUAL | BILLED | | NON-COIN | COIN. | | |
| KENERGY | | | | | 232,573 | 232,574 | 119,239,805 | 68.91 | | 242,605 | 01 |
| | | | | | 245,882 | 239,701 | 103,915,907 | 64.51 | | 252,481 | 02 |
| | | | | | 211,252 | 211,256 | 108,401,454 | 68.97 | | 227,356 | 03 |
| | | | | | 164,961 | 164,961 | 79,782,016 | 67.17 | | 190,296 | 04 |
| | | | | | 197,452 | 197,284 | 84,985,000 | 57.90 | | 211,039 | 05 |
| | | | | | 241,341 | 241,033 | 101,169,930 | 58.30 | | 253,369 | 06 |
| | | | 17:00 | 7/09 | 259,088 | 245,168 | 110,520,896 | 60.59 | | 266,146 | 07 |
| YEAR TO DATE | | | | | 259,088 | 245,168 | 708,015,008 | 8.47 | 53.71 | 1,643,292 | |

| | TOTAL LINE | | | | | TOTAL COST |
|--------------|---------------|--------------|------------------|-------------|-------------|---------------|
| | CHARGE | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | | |
| CURRENT | 4,792,485.54 | 344,383.11 | 307,454.30 | .00 | | 5,294,346.10 |
| | | NSNFPPA: | 115,052.25- | NSNFPPA2: | 34,924.60- | |
| YEAR TO DATE | 29,452,989.42 | 2,322,292.05 | 1,939,558.47 | .00 | | 32,754,063.56 |
| | | NSNFPPA: | 737,043.63- | NSNFPPA2: | 223,732.75- | |

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EBR105B
 MONTH ENDING 7/31/2013

BIG RIVERS ELECTRIC CORPORATION
 P O W E R C O S T S U M M A R Y

PAGE 24
 DATE 8/22/13

| SUBSTATION |METER READ..... | |KW DEMAND..... | | KWH USED |L.F.%..... | | NON-COIN KW | MONTH | |
|---------------|----------------------|---------|---------------------|-----|---------------|-----------------|-----------|----------------|-------|-----------|
| | PREVIOUS | PRESENT | TIME | DAY | | ACTUAL | BILLED | | | NON-COIN |
| TOTAL CURRENT | | | | | 213,133,856 | 472,149 | 472,149 | 55.13 | 60.67 | 519,644 |
| TOTAL YTD | | | | | 1,382,623,301 | 3,009,832 | 3,009,832 | 58.30 | 60.67 | 3,264,938 |
| YTD PEAK | | | | | | 479,669 | 479,669 | | | |

| |TOTAL LINE..... | | | | | TOTAL COST |
|---------------|----------------------|--------------|------------------|-------------|-------------|---------------|
| | CHARGE | FUEL ADJ | ENVIR. SURCHARGE | P/F PENALTY | | |
| TOTAL CURRENT | 9,632,729.26 | 664,125.10 | 612,844.98 | .00 | | 10,620,476.70 |
| | | NSNFPPA: | 221,872.34- | NSNFPPA2: | 67,350.30- | |
| TOTAL YTD | 58,074,542.39 | 4,533,267.07 | 3,817,329.49 | .00 | | 64,548,919.12 |
| | | NSNFPPA: | 1,439,310.85- | NSNFPPA2: | 436,908.98- | |

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*****  
**  
** PROGRAMMERS AS/400 - BIG RIVERS **  
**  
** JOB TITLE : POWER COST SUMMARY - RURALS - ALPHABETICAL ORDER **  
**  
**  
** E N D O F J O B **  
**  
** TOTAL NUMBER OF PAGES : 24 TIME OUT : 8:24:42 **  
**  
** DATE JOB RAN : 8/22/13 **  
**  
*****
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BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199**

**Response to the Office of the Attorney General's
Initial Request for Information
dated August 19, 2013**

September 3, 2013

1 **Item 142)** *Please provide non-coincident peak demands on a monthly basis for the*
2 *rurals, large industrials, and each smelter for the years 2010, 2011, 2012 and 2013, as well*
3 *as the hour and date of each non-coincident peak.*

4

5 **Response)** Please see Big Rivers' response to AG 1-141.

6

7 **Witness)** Lindsay N. Barron

BIG RIVERS ELECTRIC CORPORATION

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CASE NO. 2013-00199**

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September 3, 2013

1 **Item 143)** *Please provide monthly energy use for the rurals, large industrials and each*
2 *smelter for the years 2010, 2011, 2012 and 2013.*

3

4 **Response)** Please see Big Rivers' responses to AG 1-137 and AG 1-141.

5

6 **Witness)** Lindsay N. Barron

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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September 3, 2013

1 **Item 144)** *Please refer to the Barron Direct Testimony at page 5: Provide the load*
2 *forecast developed by GDS, in electronic file format compatible with Microsoft Office*
3 *programs.*

4

5 **Response)** Please see Big Rivers' response to AG 1-139.

6

7 **Witness)** Lindsay N. Barron

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
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**Response to the Office of the Attorney General's
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September 3, 2013

1 **Item 145)** *Provide documents and workpapers which show if and how the loss of*
2 *BREC's employment from closure of Century's Hawesville and Sebree smelting facilities*
3 *is taken into consideration in performing the load forecast, especially as it pertains to*
4 *forecasted residential and small business demand.*

5

6 **Response)** The loss of Big Rivers' employment from the closure of the Century and
7 Alcan smelting facilities was not taken into consideration in performing the load forecast
8 referenced above.

9

10 **Witness)** Lindsay N. Barron

BIG RIVERS ELECTRIC CORPORATION
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1 **Item 146)** *Please refer to the Barron Direct Testimony: Provide, on a monthly basis,*
2 *the number of residential customers, number of small commercial customers, small*
3 *commercial energy use per customer and residential energy consumption per customer for*
4 *each subcategory used to develop load forecast. Information should be provided in*
5 *electronic file format compatible with Microsoft Office programs.*

6

7 **Response)** The data used to develop the forecasting models for rural system number of
8 customers and average use per customer are provided in the attached CONFIDENTIAL
9 electronic file(s), provided under a petition for confidential treatment. Refer to the "Data"
10 sheet in each spreadsheet for the data used to develop the respective model. The models for
11 each of Big Rivers' three member cooperatives were developed using data for the rural
12 system, which contain all residential and commercial accounts that are not served directly
13 from a dedicated point of delivery. Rural system energy is metered at the substation level, so
14 it includes distribution losses. The file "Monthly System Data.XLSX" is included in the
15 attached confidential electronic file(s) and contains historical monthly number of customers
16 and energy consumption by cooperative and class.

17

18 **Witness)** Lindsay N. Barron

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 147)** *Please refer to the Barron Direct Testimony: Provide the actual number of*
2 *residential customers, number of small commercial customers, small commercial energy*
3 *use per customer and residential energy consumption per customer for each subcategory*
4 *for the years of 2010, 2011, 2012 and 2013 YTD on a monthly basis. Information should*
5 *be provided in electronic file format compatible with Microsoft Office programs.*

6

7 **Response)** The data is provided in the attached electronic file titled "AG 1-147 Elec. Att.
8 (Barron).xlsx," which is produced electronically herewith.

9

10 **Witness)** Lindsay N. Barron

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION
APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 148)** *Please provide the Sargent & Lundy environmental compliance study*
2 *produced by Big Rivers in Case No. 2012-00063. If necessary, please provide under seal of*
3 *confidentiality.*

4

5 **Response)** Please see Exhibit DePriest-2 in Case No. 2012-00063 for a copy of the
6 Sargent & Lundy environmental compliance study.

7

8 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION
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1 **Item 149)** *Please provide the estimated monthly payments that Century will make for*
2 *Big Rivers' Transmission Service under the Century Agreement through 2016.*

3

4 **Response)** Please see the response to SC 1-12(c). The annual values can be divided by
5 twelve to estimate monthly payments.

6

7 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 150)** *Please provide Big Rivers' formula rate filings, and the spreadsheets used to*
2 *develop each filing, for each year that Big Rivers has made such filings under Attachment*
3 *O of the MISO OATT.*

4

5 **Response)** The MISO Attachment O filings for the years 2009 through 2011 were
6 provided in response to AG 1-181 in CN 2012-00535. The filing for 2012 is provided in the
7 attached electronic file titled "Attach O - RUS 12 Non-Levelized_ER13-674
8 (BREC)_final.xlsx."

9

10 **Witness)** Christopher A. Warren

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 151)** *Has Big Rivers conducted any economic feasibility studies regarding*
2 *whether its customers can afford the cumulative proposed \$115 million rate increase? If*
3 *so, please provide copies together with any and all documents associated therewith. If not,*
4 *why not?*

5

6 **Response)** No. Big Rivers is sensitive to increases in its members' bills, and has taken
7 steps to mitigate such increases, as described in the testimonies of several witnesses in this
8 case. That being said, the proposed increase is calculated based upon the cost-of-service
9 standard of ratemaking, in which rate levels should be sufficient to recover operating
10 expenses plus a fair rate of return on the investment used in providing service.

11

12 **Witness)** John Wolfram

BIG RIVERS ELECTRIC CORPORATION
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Response to the Office of the Attorney General's
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dated August 19, 2013

September 3, 2013

1 **Item 152)** *Provide spreadsheets with formulas and links intact, and related documents*
2 *which show how Big Rivers estimated and accounted for the effects of a) price elasticity of*
3 *demand for electricity, and b) demand side management programs in its financial*
4 *presentation of the rate case request (budgets, financial and operational modeling, test*
5 *period results).*

6

7 **Response)** Price elasticity and demand side management impact the results of the Load
8 Forecast. The Load Forecast in turn affects budgets, financial and operational modeling and
9 test period results to the extent it is a fundamental input to these items. Please see the Load
10 Forecast files provided in Big Rivers' response to AG 1-139.

11

12 **Witness)** Lindsay N. Barron

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CASE NO. 2013-00199

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1 **Item 153)** *Provide any economic feasibility tests undertaken by or for Big Rivers with*
2 *regard to the ability of the end-user to pay his/her/its bill and thus the ability of same to*
3 *continue to take the projected amount of load and not decrease usage thus affecting the*
4 *overall demand on the system.*

5

6 **Response)** Big Rivers has not performed any economic feasibility tests in this regard.

7 Please also see the response to AG 1-151.

8

9 **Witness)** John Wolfram

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 154)** *Provide an electronic spreadsheet copy of all supporting workpapers,*
2 *calculations and source documents for each of the models or other files provided by Big*
3 *Rivers in response to PSC 1-57 with formulas, links and references intact.*

4

5 **Response)** Please see attached electronic files.

6

7 **Witnesses)** Jeffrey R. Williams, Christopher A. Warren, John Wolfram

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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**Response to the Office of the Attorney General's
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- 1 **Item 155) *Provide the "User's Manual" or equivalent documentation for the***
2 ***Financial forecast which shows and describes inputs, input sources, steps and operations***
3 ***of the model, etc.***
- 4 **a. *If no such User's Manual or equivalent documentation exists, describe how***
5 ***BREC ensures that necessary expertise to operate the Financial forecast accurately***
6 ***remains after managers or analysts such as Mr. Siewert depart.***
- 7 **b. *Explain how compliance or accuracy of the Financial Model can be***
8 ***objectively tested by a third party when there are no underlying or supporting User***
9 ***Manual instructions, guidelines, assumptions, and documentation.***
- 10 **c. *Explain if the Financial Model has ever been evaluated or reviewed by Big***
11 ***Rivers' auditors or another third party, and provide the related report and results of that***
12 ***review, and provide the related contract and engagement letter describing the type of***
13 ***review to be performed.***
- 14 **d. *Explain how the internal controls of the Financial Model can be tested***
15 ***without any User's Manual.***
- 16 **e. *Explain how Big Rivers determines if any underlying assumptions or***
17 ***formulas have not been inadvertently or intentionally altered if there is no User's Manual***
18 ***that describes and documents the baseline assumptions and all formulae.***

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September 3, 2013

1 *f. State when the Financial Model (basis for the "Financial Forecast" in this*
2 *case) initially was created by or for BREC.*

3 *g. State whom created the Financial Model (basis for the "Financial*
4 *Forecast" in this case) by or for BREC.*

5 *h. State the names of past BREC employees who had a role deemed important*
6 *by BREC in the development and creation of the Financial Model (basis for the*
7 *"Financial Forecast" in this case).*

8 *i. State the names of current BREC employees who had a role deemed*
9 *important by BREC in the development and creation of the Financial Model (basis for the*
10 *"Financial Forecast" in this case).*

11

12 **Response)** The documentation for the financial model is attached to this response.

13 a. The documentation for the Financial Model is attached and provides a
14 description of the function of each worksheet throughout the model, the inputs
15 to and outputs of the Financial Model, and checks to ensure its accuracy. The
16 company ensures that the necessary expertise to operate the Financial Model
17 properly by employing qualified individuals who understand Big Rivers'
18 business and rate structure. The annual budget which utilizes the financial

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- 1 forecast model and reconciliation processes take place to ensure that the
2 budgeted expenditures are properly incorporated into the Financial Model.
3 The budget output is also reviewed by Big Rivers' management. The model is
4 used for management of the business and to forecast short-term and long-term
5 projections.
- 6 b. This is addressed in the documentation provided in part (a).
- 7 c. The Financial Model has been provided electronically for review in a number
8 of rate cases to the Intervenors for their independent analysis. No external
9 party has informed Big Rivers of a flaw with the operation of the Financial
10 Model. Output from the Financial Model has been provided to creditors and
11 rating agencies.
- 12 d. Please refer to the answer in (a) above.
- 13 e. Please refer to the answer in (a) above.
- 14 f. Big Rivers' has utilized a Financial Model for forecasting and analysis in a
15 similar format since the Unwind transaction and is continually updated with
16 changes that occur within the business.
- 17 g. Travis Siewert, Chris Warren and Mark Hite developed and created the
18 Financial Model (basis for the "Financial Forecast" in this case).

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September 3, 2013

- 1 h. Travis Siewert and Mark Hite are past employees who had roles deemed
2 important by Big Rivers in the development and creation of the Financial
3 Model (basis for the "Financial Forecast" in this case).
- 4 i. Chris Warren is a current employee who had a role deemed important by Big
5 Rivers in the development and creation of the Financial Model (basis for the
6 "Financial Forecast" in this case).
- 7
- 8 **Witness)** Christopher A. Warren

Big Rivers Electric Corporation
Case No. 2012-00199
Attachment for the Response to AG 1-155
Financial Model Overview Framework with Statistics

Overview

The Big Rivers Financial Model Tool mirrors all aspects of the Big Rivers business structure. It is used to process inputs from various sources to generate financial statements, member rates and financial metrics based on these inputs. The Model output is a forecast used to aid in making business decisions, developing forecasts for rate cases and supplying information to creditors. As a general rule throughout the model, color fonts in a cell indicate a place where data should be input and black fonts indicate cells that are outputs of a formula. The green colored tabs (worksheets) are input and calculation worksheets that provide revenue and expenses by account and populate the trial balance to create a statement of operations. The blue colored tabs (worksheets) populate portions of the Rates and Stmts RUS worksheets. The blue colored worksheets do not populate the trial balance.

Can you give a brief description of each of the worksheets in the Financial Model and its purpose?

Stmts RUS

This worksheet follows RUS Accounting and is the consolidation of all of the other worksheets and provides the outputs of the model, such as financial statements, rates, debt and some financial metrics.

Trial Balance

This worksheet has links from the worksheets with green colored tabs in the model to compile a list of revenues and expenses by account. The trial balance creates the statement of operations on the Stmts RUS worksheet.

**Big Rivers Electric Corporation
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Financial Model Overview Framework with Statistics**

The screenshot shows an Excel spreadsheet with a grid of data. The columns represent years from 2012 to 2019. The rows represent various financial metrics. Two callout boxes are overlaid on the spreadsheet:

- Green colored tabs:** A box on the left side of the spreadsheet states: "Green colored tabs are input and calculation worksheets that provide revenue and expenses by account and populate the trial balance." Arrows point from this box to the columns for 2012 and 2013.
- Blue colored tabs:** A box on the right side of the spreadsheet states: "Blue colored tabs calculate parts of the rate structure that populates portions of the Rates worksheet and Stmt's RUS worksheet. These sheets do not populate the trial balance." Arrows point from this box to the columns for 2014 and 2015.

Regulatory Charge

This sheet tracks and calculates regulatory assets and the Non-Smelter Non-Fuel Adjustment Clause Purchased Power Adjustment.

Fuel

This worksheet provides fuel expense and inventory balances. Much of the information used for the calculations on this worksheet is pulled from the PCM (Production Cost Model) worksheet.

PCM

This worksheet is where the information from the production cost model is input into the financial model. These items include energy, demand, fuel purchases, fuel burn, purchased power, market power prices, emissions and reagent expenses.

Interest

This worksheet is used to calculate interest income on cash balances.

O&M

This worksheet is where fixed expenses and miscellaneous revenues are input. These include items from the Hyperion budget tool such as labor, fixed departmental expenses, insurance, property tax, etc.

Capex & Depr

Capital and depreciation expenses are input on this worksheet. The model will calculate depreciation for long

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Debt

Big Rivers' debt is tracked on this worksheet. For debt that is already committed the information is input from amortization schedules. New debt can be modeled using projected interest rates. Use of the line of credit can also be modeled when cash levels drop below desired levels.

Pat. (Patronage)

This worksheet was added in 2012 to model the refinancing that took place with CFC and the purchase of capital term certificates as part of that transaction. It was named patronage due to the patronage allocation that is received related to this transaction.

Rates

This worksheet mirrors the Big Rivers' tariffs to create rates for the members. The final rate information is then presented on the StmtS RUS worksheet.

Rates-Cash

This worksheet was part of the calculations related the smelter agreements and is now longer used due to the smelter contract terminations.

FAC, PPA, ES, SC

This worksheet is used to calculate the Fuel Adjustment, Purchased Power Adjustment and the Smelter Surcharge (This expires with the smelter contract termination). The worksheet was used to calculate the Environmental Surcharge prior to the change in how the mechanism works. This was changed in the 2012 Environmental Compliance Plan filing (Kentucky Public Service Commission Case # 2012-00063). The Environmental Surcharge is now calculated on the ECP worksheet and that amount is used for rates.

ECP (Environmental Compliance Plan)

This worksheet was added for the 2012 Environmental Compliance Plan filing (Kentucky Public Service Commission Case # 2012-00063) and models the Environmental Surcharge calculation that was approved in this filing. The Environmental Surcharge rates are derived from allocating eligible costs on total adjusted revenue.

Charts

This worksheet summarizes financial metrics and is provided to creditors and used in loan applications.

Member Power Cost

This worksheet is required by RUS for loan applications.

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Bud. Adj. (Budget Adjustment)

This worksheet is used when modeling sensitivities. Capital or O&M expenses can be added to this worksheet and linked to the O&M or Capex worksheet. By making changes from the base case on this worksheet, the changes are easier to follow.

Rate Adj (Rate Adjustment)

This worksheet was added for the Alcan Rate Case (Kentucky Public Service Commission Case # 2013-00199) to establish a rate that would allow the Economic Reserve and Rural Economic Reserve Funds to offset the base rate increase until those funds are exhausted. The rate for the rural customers in cell B12 flows to row 39 on the rates worksheet and the rate for the large industrial customers in cell B13 flows to row 59 on the rates worksheet. By adding this cost it allows the reserve funds to give a bigger credit to the members.

What are the inputs and outputs of the Financial Model?

Outputs

The Financial Model is used to produce financial statements and financial metrics that include, but are not limited to: revenues, reserve fund balances, long-term debt structure, rates by customer class, cash flow, and Times Interest Earned Ratio.

Inputs

Inputs are from internal and external sources. These include the production cost model, output from the budget process, depreciation, rates from cost of service studies, debt amortization schedules. These sources will have their own various source of input.

Verification of the inputs is a key component of the process. There is a reconciliation process that the fixed expenses that are received from the budget department match the information within the financial model. These expenses include, but are not limited to: Labor, Fixed Departmental Expenses, Capital, Depreciation, Insurance, Property Tax, Capitalized Interest, Emission Fees, and Miscellaneous Revenues. The information from the Production Cost Model is verified with Energy Services to ensure that the correct information is included in the Financial Model. These inputs include, but are not limited to Unit Generation, MWh Sales, Demand, Reagent Expense and Fuel.

Production Cost Model

Inputs provided by the Production Cost Model include Unit Generation, Purchased Power Volumes and Expense, Coal Burn and Purchases, Unit Emissions and Reagent Expense.

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Financial Model Overview Framework with Statistics

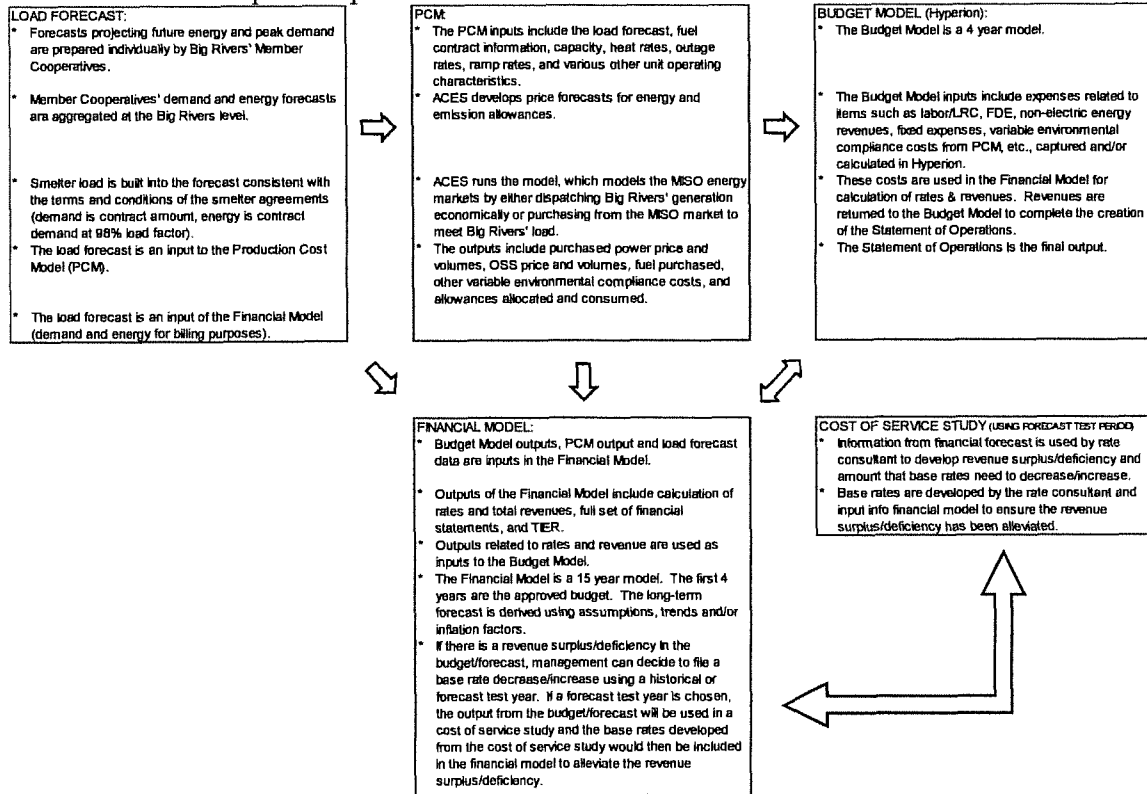
Budget

Expenses received from the Budget Department include Labor, Fixed Departmental Expenses, Depreciation, Insurance, Property Tax, Capitalized Interest, Emission Fees, and Miscellaneous Revenues.

Other

The Financial Model utilizes current Debt and Amortization schedules for any current long-term debt. New debt or debt that is refinanced during the forecast period is calculated within the Financial Model.

Financial Model Input/Output Flow:



How long does it take to run a Financial Model?

The Financial Model is a set of dynamic formulas that operate on static and referenced input values in a grid framework. As inputs are entered or references added, the results are instantaneous. The time and effort involved in generating a Financial Model is in the business processes and analysis to provide accurate input to the model and in set up and verification of the model to handle new and changing factors relevant to the particular

Big Rivers Electric Corporation
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Financial Model Overview Framework with Statistics

scenario. Once input is complete, it takes time to complete the reconciliation process and verify that the various inputs match the source data.

Is it possible to run different scenarios with the Financial Model?

Yes. The effort required to run other scenarios depends on the scenario itself.

The Financial Model is defined to handle a known set of variables and factors. The time required to run other scenarios depend on how different the scenarios are from the base case. Most of the time requirement would involve running addition production cost models, revising a detailed capital plan, revising labor or fixed departmental expenses. The more numerous the changes the more time consuming the input and verification process would be. The most time consuming scenarios require modification to the Financial Model itself (For example modeling a change in the current rate structure), which could introduce a significant number of changes to formulas. Scenarios in this category take significantly longer due to the additional analysis, development, and testing involved.

What are the steps involved to produce a Financial Model?

The steps involved in producing a Financial Model are:

- 1) Creating the model to be used for the forecasted period. Annually the model is updated with prior year actual or most recent forecast information which is the starting point for the forecast. Year and month headings are checked to make sure that they are correct. Days in the year for each year are checked to make sure that leap years contain 366 days and normal years have 365 days. This is especially important on worksheets such as the Debt as many of the interest calculations are based on days in the year.
- 2) Links are established to external data sources including budget output files, capital spending, debt amortization schedules, demand and energy levels, depreciation and production cost model output files.
- 3) Interest income is calculated on the cash balance.
- 4) Financial Model outputs are reviewed and reconciled.

What has been done to verify the processes within the Financial Model, the engine itself, are accurate?

The Financial Model mirrors the Big Rivers' business structure and checks have been established within the model to ensure it is operating properly. On the Stmtns RUS worksheet there are balance checks on rows 192 & 302 to ensure the financial statements are in balance. On the Trial Balance worksheet there is a balance check on row 574 to ensure that the trial balance is equal to the Net Margins on the Statement of Operations.

Big Rivers Electric Corporation
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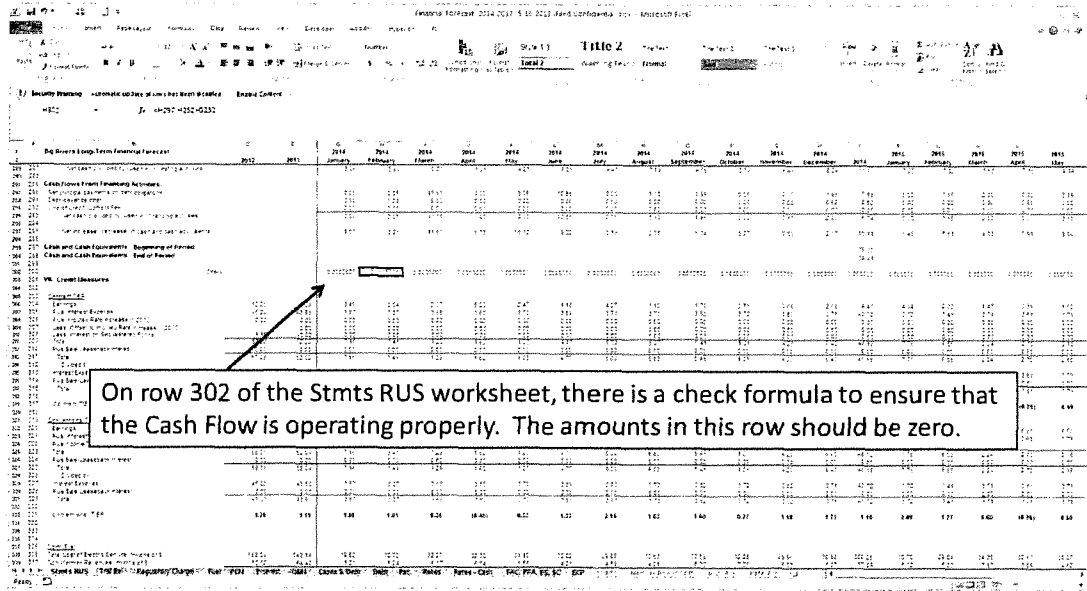
Changes can be made to the model to see if an expected result occurs. For example, if \$1 million of expense is added to the O&M worksheet, the expected outcome to the Net Patronage Capital or Margin line on the Stmts RUS worksheet would be a decrease in margins of \$1 million.

In another example if a cost that flows through to the customers such as fuel is increased \$1 million, an expected outcome would be member revenues increasing (due to the increase in the Fuel Adjustment Clause) by the percentage of the \$1 million attributable to member sales. The portion attributable to off-system sales would be expected to lower the Net Patronage Capital or Margin line on the Stmts RUS worksheet.

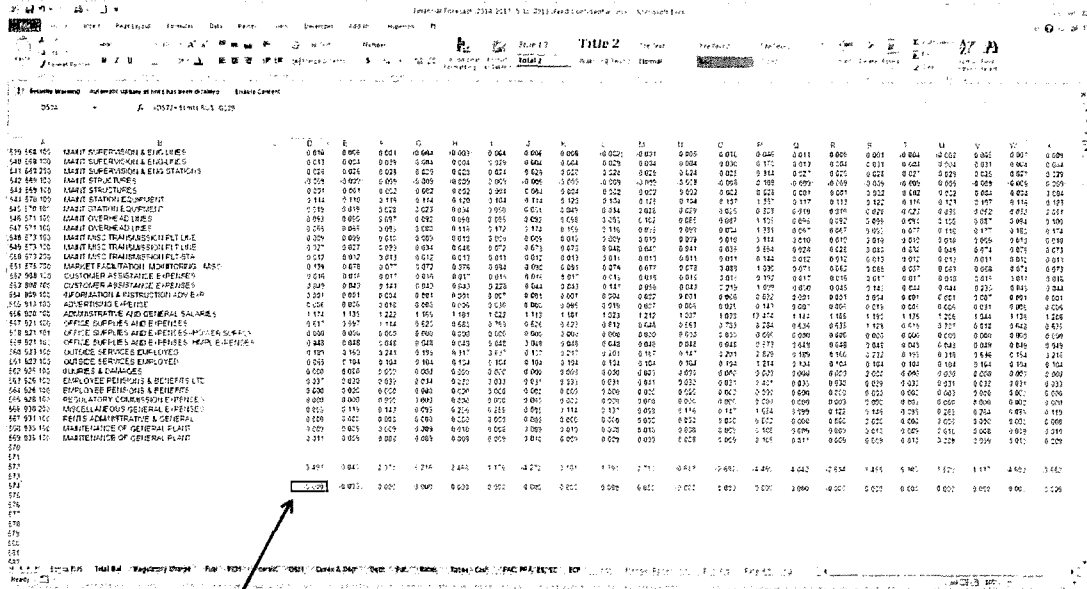
During the reconciliation process, attention is given to the Economic and Rural Economic reserve fund balances to mark the time at which they are exhausted.

On row 192 of the Stmts RUS worksheet, there is a balance check to ensure that the Balance Sheet is in balance. The amounts in this row should be zero.

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Financial Model Overview Framework with Statistics



On row 302 of the Stmts RUS worksheet, there is a check formula to ensure that the Cash Flow is operating properly. The amounts in this row should be zero.



On row 574 of the Trial Bal worksheet, there is a balance check to ensure that the trial balance is equal to the statement of operations on the Stmts RUS worksheet. The amounts in this row should be zero.

Big Rivers Electric Corporation
Case No. 2012-00199
Attachment for the Response to AG 1-155
Financial Model Overview Framework with Statistics

Model Statistics

| Sheet Name | Used Cells | Formulas | Numeric Formulas | Text Formulas | Constants | Numeric Constants | Text Constants |
|-------------------|---------------|---------------|------------------|---------------|--------------|-------------------|----------------|
| Stmts RUS | 8,580 | 7,967 | 7,967 | | 613 | 258 | 355 |
| Trial Bal | 4,219 | 3,944 | 3,920 | 24 | 275 | 58 | 217 |
| Regulatory Charge | 1,687 | 1,343 | 1,319 | 24 | 344 | 74 | 270 |
| Fuel | 1,738 | 1,419 | 1,395 | 24 | 319 | 60 | 259 |
| PCM | 3,776 | 3,253 | 3,229 | 24 | 523 | 164 | 359 |
| Interest | 617 | 289 | 265 | 24 | 328 | 100 | 228 |
| O&M | 7,037 | 6,374 | 6,346 | 24 | 663 | 200 | 463 |
| Capex & Depr | 1,658 | 1,341 | 1,317 | 24 | 317 | 61 | 256 |
| Debt | 2,479 | 2,038 | 2,004 | 24 | 441 | 132 | 309 |
| Pat. | 1,241 | 926 | 901 | 24 | 315 | 70 | 245 |
| Rates | 5,531 | 4,757 | 4,733 | 24 | 774 | 356 | 418 |
| Rates - Cash | 1,181 | 1,132 | 1,108 | 24 | 49 | 2 | 47 |
| FAC, PPA, ES, SC | 1,099 | 960 | 936 | 24 | 139 | 94 | 45 |
| ECP | 1,194 | 1,098 | 1,074 | 24 | 96 | 36 | 60 |
| Charts | 1,232 | 964 | 958 | | 268 | 129 | 139 |
| Member Power Cost | 120 | 95 | 95 | | 25 | 2 | 23 |
| Bud. Adj. | 92 | 74 | 50 | 24 | 18 | | 18 |
| Rate Adj | 14 | 5 | 5 | | 9 | 2 | 7 |
| Totals | 43,495 | 37,979 | 37,622 | 336 | 5,516 | 1,798 | 3,718 |

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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September 3, 2013

1 **Item 156)** *Please provide complete source documentation for all inputs into the*
2 *Financial forecast, in electronic spreadsheet readable file format.*

3

4 **Response)** Source files for input into the financial forecast were provided in responses to
5 PSC 1-57 and AG 1-227. The documentation in response to AG 1-155 describes where this
6 information is input into the model.

7

8 **Witness)** Christopher A. Warren

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 157)** *Provide spreadsheets linked to formulas in Big Rivers Financial forecast in*
2 *Exhibit Warren-2 electronically in format compatible with Microsoft Office programs.*
3 *Spreadsheets should include all formulas and links and include any spreadsheets linked to*
4 *Big Rivers Financial forecast in Exhibit Warren-2.*

5

6 **Response)** Please refer to Big Rivers' response to PSC 2-22.

7

8 **Witness)** Christopher A. Warren

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 158)** *Please provide copies of the summary results of all Financial Model runs*
2 *provided to the Big Rivers Board of Directors in the period January 1, 2012 to current.*

3

4 **Response)** For summary results of all Financial Model runs provided to the Big Rivers
5 Board of Directors from January 1, 2012 through December 31, 2012, please reference Big
6 Rivers' response to AG 1-167 in Case No. 2012-00535.

7 For the presentation derived from the Financial Model that was presented to the
8 Board of Directors on November 16, 2012 for approval of the Financial Plan, please see the
9 response to PSC 2-19.

10 Copies of all other CONFIDENTIAL summary results of Financial Model runs are
11 attached hereto with a petition for confidential treatment.

12

13 **Witness)** Christopher A. Warren

**CONFIDENTIAL
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
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1 **Item 159)** *Please provide copies of the summary results of all Financial Model runs*
2 *provided to the Big Rivers senior management in the period January 1, 2012 to current.*

3

4 **Response)** For summary results of all Financial Model runs provided to the Big Rivers
5 senior management from January 1, 2012 through December 31, 2012, please reference Big
6 Rivers' response to AG 1-168 in Case No. 2012-00535.

7 For the presentation derived from the Financial Model that was reviewed by senior
8 management prior to being presented to the Board of Directors on November 16, 2012 for
9 approval of the Financial Plan, please see the response to PSC 2-19.

10 Please reference AG 1-158 and AG 1-266 for the confidential summary results of all
11 Financial Model runs provided to Big Rivers senior management in the period from January
12 1, 2013 to the present.

13

14 **Witness)** Christopher A. Warren

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 160)** *Please provide the "final" Financial Model produced to the Commission in*
2 *the "Unwind" case (2007-00455), in electronic spreadsheet format with all formulae*
3 *intact.*

4 **a.** *If this model is claimed to be confidential by BREC, please state and*
5 *explain the basis for the confidentiality claim years after the Unwind*
6 *transaction.*

7
8 **Response)** Please refer to the Excel spreadsheet named "AG 1-7 (CONFIDENTIAL)
9 (Siewert)(Attachment Unwind Presentation 10 4 08)" provided in response to AG 1-7 in
10 Case Number 2012-00535.

11 **a.** The Financial Model produced in the "Unwind" case (2007-00455) was filed
12 pursuant to a petition for confidentiality; confidentiality was granted; and
13 confidentiality has not been revoked.

14
15 **Witness)** Christopher A. Warren

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 161)** *Did the production cost model provided in response to PSC 1-57 ("PCM*
2 *Run") include input from a MISO market price forecast that assumed restrictions on CO2*
3 *emissions? If so please provide an updated production cost model without any assumed*
4 *restrictions on CO2 emissions.*

5

6 **Response)** No. The ACES market power price forecasts used in the PCM did not include
7 any restrictions on CO2 emissions.

8

9 **Witness)** Robert W. Berry

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 162)** *Please provide any other production cost model runs similar to that provided*
2 *in response to PSC 1-57 that were performed as sensitivity runs to different assumed*
3 *market or regulatory conditions. Please explain and describe why these sensitivity runs*
4 *were selected and why they were rejected.*

5

6 **Response)** Big Rivers objects that this request is unduly vague and ambiguous insofar as
7 the last sentence of this request incorrectly assumes that sensitivity runs have been
8 “rejected.” Notwithstanding that objection, and without waiving the same, Big Rivers states
9 as follows.

10 Sensitivity runs are performed in order to assist the company with planning for
11 reasonably identifiable and reasonably contingent circumstances. Please see Big Rivers’
12 response to AG 1-98 for the production cost model output files and the eleven (11) sensitivity
13 runs to PSC 1-57 listed below.

14 “AG 1-98, PCM Run, WilsonColeIdle, 10% higher (5-3-13).xlsx”

15 “AG 1-98, PCM Run, WilsonColeIdle, 10% lower (5-3-13).xlsx”

16 “AG 1-98, PCM Run, All Running, 10% higher (5-3-13).xlsx”

17 “AG 1-98, PCM Run, All Running, 10% lower (5-3-13).xlsx”

18 “AG 1-98, PCM Run, WilsonIdle (4-23-13).xlsx”

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- 1 "AG 1-98, PCM Run,ColemanIdle (4-23-13).xlsx"
- 2 "AG 1-98, PCM Run,ColeGreenIdle (4-23-13).xlsx"
- 3 "AG 1-98, PCM Run,WilsonGreenIdle (4-23-13).xlsx"
- 4 "AG 1-98, PCM Run,WilsonColeIdle-Back (4-22-13).xlsx"
- 5 "AG 1-98, PCM Run,WilsonColeIdle (4-15-13).xlsx"
- 6 "AG 1-98, PCM Run,All Running (4-15-13).xlsx"

7 These sensitivity runs are fifteen year runs where the run provided in PSC 1-57 was
8 only a four year run. There were four sensitivity runs at different assumed market conditions
9 with the two runs at 10% higher market prices and the two runs at 10% lower market prices.
10 The other runs were sensitivities around what generating units were operating.

11 Sensitivity runs are selected to provide insight to "what if" scenarios. In this case,
12 what will the production outlook be if the power market prices were 10% higher or 10%
13 lower? There were no sensitivity runs due to different regulatory conditions but sensitivity
14 runs are being planned. A sensitivity run with both Green units converted to natural gas and
15 sensitivity run with the IHS projected environmental laws used in their Global Redesign
16 scenario will be run.

17

18 **Witness)** Robert W. Berry

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1 **Item 163)** *Please provide the complete spreadsheet labeled*
2 *BRECMISOMonthlyLoadForecast2012-09.xlsxm referenced in cells A2 and I2 in the tab*
3 *labeled "EnergyInputs" of spreadsheet "Demand and Energy," with all cells intact in*
4 *executable format and labeled, provided in response to PSC 1-57.*

5

6 **Response)** Please find the attached CONFIDENTIAL electronic file(s) accompanying
7 these responses, provided under a petition for confidential treatment.

8

9 **Witness)** Lindsay N. Barron

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 164)** *Please provide the complete spreadsheet labeled*
2 *BRECMIKSOmonthlyLoadForecast2012-05.xlsm referenced in cell A1 in the tab labeled*
3 *“HMPLMonthly” of spreadsheet “Demand and Energy,” with all cells intact in executable*
4 *format and labeled provided in response to PSC 1-57.*

5

6 **Response)** Cell A1 does not reference a spreadsheet labeled
7 “BRECMIKSOmonthlyLoadForecast2012-05.xlsm.” Cell A1 does reference a spreadsheet
8 labeled “BRECMISOmonthlyLoadForecast2012-05.xlsm.” Therefore, please find the
9 referenced file named “BRECMISOmonthlyLoadForecast2012-05.xlsm” in the attached
10 CONFIDENTIAL electronic file(s) accompanying these responses, submitted under a
11 petition for confidential treatment. Regarding the request for the file to be in
12 “executable format,” Big Rivers notes that any macros contained in the file may not run
13 properly unless the file is in a specific location on a Big Rivers network drive.

14

15 **Witness)** Lindsay N. Barron

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

BIG RIVERS ELECTRIC CORPORATION

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1 **Item 165)** *Please provide all other sensitivity runs made when the spreadsheet "PCM*
2 *Run" provided in reply to PSC 1- 57 discovery was created and provide the spreadsheets*
3 *related to these sensitivities.*

4

5 **Response)** Please see the CONFIDENTIAL electronic file(s) containing the PCM runs,
6 attached to Big Rivers' response to AG 1-98.

7

8 **Witness)** Robert W. Berry

**ELECTRONIC
ATTACHMENT(S)
PRODUCED
SEPARATELY**

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- 1 **Item 166)** *Please refer to the following tabs and cells in the Financial Forecast*
2 *provided in response to PSC 1-57, and provide supporting documentation and associated*
3 *Excel spreadsheets with formulas, references and links intact for the following cells:*
- 4 a. *State what convention (i.e., colors) is used to indicate inputs to the*
5 *Financial Forecast.*
- 6 b. *Tab "Stmnts RUS": cells E131:E185 (excluding those cells with referenced*
7 *worksheet tab or formula calculation);*
- 8 i. *Identify the witness who can testify to the veracity of each of these*
9 *inputs.*
- 10 c. *Tab "Rates": cells D29:AE29.*

11
12 **Response)**

- 13 a. Please refer to the documentation provided in Big Rivers' response to AG 1-
14 155 for color conventions within the model.
- 15 b. The input for cells E131:E185 represent 2013 year-end balance sheet
16 information as projected at the time the forecast was prepared.
- 17 i. Christopher Warren is the responsible witness for these inputs.

Case No. 2013-00199
Response to AG 1-166
Witness: Christopher A. Warren
Page 1 of 2

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1 c. Cells D29:AE29 on the "Rates" worksheet represent the \$10.212/MWh of fuel
2 expense that was rolled into base rates in Case No. 2011-00036.

3

4 **Witness)** Christopher A. Warren

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- 1 **Item 167)** *Please refer to the following tab and cell in the Financial Forecast provided*
2 *in response to PSC 1-57: cell D55 (“Interest Rate”) of the “Debt” tab.*
- 3 **a.** *Please state what is the function of this input in the Financial Forecast*
4 *model.*
- 5 **b.** *Please state whether modifying the interest rate input in D55 will flow*
6 *through to modify the base period and test period results depicted on the*
7 *“Stmts RUS” tab of the Financial forecast.*
- 8 **c.** *If modifying the interest rate input does modify the outputs on the “Stmts*
9 *RUS” tab, identify and explain each step that must be taken to achieve that*
10 *result.*
- 11 **d.** *If modifying the interest rate input does not modify the outputs on the*
12 *“Stmts RUS” tab, explain why not.*
- 13 **e.** *If modifying the interest rate input does not modify the outputs on the*
14 *“Stmts RUS” tab, explain where and how within the Financial forecast*
15 *interest rates can be modified with the effects flowing through to the “Stmts*
16 *RUS” tab.*

17

18

BIG RIVERS ELECTRIC CORPORATION
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1 **Response)**

- 2 a. The function for cell D55 on the "Debt" worksheet is to change the Rate of
3 the RUS Series B Note when this debt is refinanced in 2023.
- 4 b. No.
- 5 c. See the response to subpart (b), above.
- 6 d. See the response to subpart (a), above.
- 7 e. With the exception of ECP Borrowing, all debt during the test period has been
8 executed with creditors. To change the assumptions on the interest rate
9 related to ECP borrowing, the interest rate in cell F9 of the "Debt" worksheet
10 would need to be modified.

11

12 **Witness)** Christopher A. Warren

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- 1 Item 168) *Please refer to the following tab and cell in the Financial forecast provided*
2 *in response to PSC 1-57: cell D3 (“Inflation”) of the “O&M” tab.*
- 3 a. *Please state what is the function of this input in the Financial Forecast*
4 *model.*
- 5 b. *Please state whether modifying the inflation input in D3 will flow through*
6 *to modify the base period and test period results depicted on the “Stmts*
7 *RUS” tab of the Financial forecast.*
- 8 c. *If modifying the inflation input does modify the outputs on the “Stmts RUS”*
9 *tab, identify and explain each step that must be taken to achieve that result.*
- 10 d. *If modifying the inflation input does not modify the outputs on the “Stmts*
11 *RUS” tab, explain why not.*
- 12 e. *If modifying the inflation input does not modify the Operating Statement*
13 *outputs on the “Stmts RUS” tab, explain where and how within the*
14 *Financial forecast inflation can be modified with the effects flowing*
15 *through to the “Stmts RUS” tab.*

17 Response)

BIG RIVERS ELECTRIC CORPORATION

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- 1 a. The function for cell D3 on the "O&M" worksheet is to apply inflation
2 amounts in the years past the current 3-4 year timeframe.
- 3 b. No.
- 4 c. See Big Rivers' response to subpart (b), above.
- 5 d. It is only used for long-term forecasts, outside of the first 3-4 year period.
- 6 e. For the short-term period, inflation factors would need to be included in the
7 information input in the Financial Model. For long-term forecasts, changing
8 the inflation rate in cell D3 will change the amounts on the "Stmts RUS"
9 worksheet in the years past the current 3-4 year timeframe.
- 10
- 11 **Witness)** Christopher A. Warren

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1 **Item 169)** *Please provide Financial forecast "sensitivity" runs performed by Big*

2 *Rivers since August 2012 which use alternate assumptions regarding:*

3 *a. departure of smelter load;*

4 *b. debt financing;*

5 *c. market prices for off-system sales;*

6 *d. alternative scenarios regarding implementation of the Load Concentration*

7 *Analysis and Mitigation Plan;*

8 *e. any changes in dispatch assumptions due to units being required to operate*

9 *to satisfy MISO reliability requirements from anticipated Alcan and/or Century*

10 *agreements to purchase power from the MISO market; and/or*

11 *f. any other alternate assumptions to those contained in the financial forecast*

12 *presented in this case.*

13

14 **Response)** Big Rivers reviewed several sensitivity scenarios in conjunction with this
15 filing. The analysis of these scenarios was conducted via the Production Cost Model rather
16 than the Big Rivers Financial Model. Please see the responses to AG 1-162 and AG 1-165.

17 *a. Big Rivers has not completed "sensitivity" runs in the Financial Model since*
18 *August 2012 with alternate assumptions regarding departure of smelter load.*

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- 1 b. Big Rivers has not completed “sensitivity” runs in the Financial Model since
2 August 2012 with alternate assumptions regarding debt financing.
- 3 c. Big Rivers has not completed “sensitivity” runs in the Financial Model since
4 August 2012 with alternate assumptions regarding market pricing for off-
5 system sales.
- 6 d. Two sensitivity runs related to capacity market analysis were provided in
7 response to PSC 2-14.
- 8 e. Big Rivers has not completed “sensitivity” runs in the Financial Model since
9 August 2012 with alternate assumptions regarding any changes in dispatch
10 assumptions due to units being required to operate to satisfy MISO reliability
11 requirements from anticipated Alcan and/or Century agreements to purchase
12 power from the MISO market.
- 13 f. Big Rivers has not completed “sensitivity” runs in the Financial Model since
14 August 2012 with any other alternate assumptions to those contained in the
15 financial forecast presented in this case.
- 16
- 17 **Witness)** Christopher A. Warren

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1 **Item 170)** *Please refer to the file “Big Rivers Budget 2013 – 2016 (Confidential).xlsx”*
2 *as provided in response to PSC 1-57 in Case No. 2012-00535. Provide the equivalent*
3 *spreadsheet for this case, including all supporting documentation and associated Excel*
4 *spreadsheets with formulas, references and links intact.*

5

6 **Response)** Big Rivers objects that this request is unduly burdensome and unlikely to lead
7 to the discovery of admissible evidence for the reasons described in the response below.
8 Notwithstanding those objections, and without waiving them, Big Rivers states as follows.

9 The referenced file (“Big Rivers Budget 2013 – 2016 (Confidential).xlsx”), originally
10 provided in Case No. 2012-00535, was used as a source document for the Financial Model in
11 that proceeding. In the current rate case, this file has been replaced by the Hyperion budget
12 files that have been submitted in response to PSC 1-57. These files are now used as a source
13 document for the Financial Model. The file names are: ‘2014 ALCAN.xlsx’, ‘2015
14 ALCAN.xlsx’ and ‘2016 ALCAN.xlsx’.

15

16 **Witness)** Jeffrey R. Williams

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1 **Item 171)** *Confirm that any spreadsheets provided by Big Rivers to the Attorney*
2 *General will not contain any cells or worksheets that are protected, locked, or require*
3 *permissions for full operation of the spreadsheets and its inputs.*

4 *a. If any such spreadsheets have been provided to date, please provide*
5 *spreadsheet copies which are unlocked/unprotected.*
6

7 **Response)** To the best of Big Rivers' knowledge, it is confirmed that no spreadsheets
8 provided by Big Rivers to the Attorney General contain any cells or worksheets that are
9 protected, locked, or require permissions for full operation of the spreadsheets and its inputs.
10 It is not Big Rivers' intent to provide spreadsheets with protected, locked, or permission-
11 required cells.

12 *a. See the response above.*
13

14 **Witness)** Christopher A. Warren

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1 **Item 172)** *Regarding Big Rivers' response to PSC 1-57 "Big Rivers PCM Run 4-22-*
2 *13" Spreadsheet.*

3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]

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1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
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9 [REDACTED]
10 [REDACTED]
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16 [REDACTED]
17 [REDACTED]
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BIG RIVERS ELECTRIC CORPORATION
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[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Response)

- a. Please see Big Rivers' responses below.
 - i. Please see the attached SEPA contracts.
 - ii. SEPA costs are expected to increase primarily due to the assumption that SEPA will begin including costs for the repair of Wolf Creek and

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- 1 Center Hill dams in the revenue requirements when setting rates for
2 SEPA customers.
- 3 iii. At the time these models were run it was assumed SEPA would remain
4 under Force Majeure through December 2014, at rates published in
5 Federal Register/ Vol. 76, No. 184 / Thursday, September 22,
6 2011/Notices pages 58790 through 58803, Wholesale Rate Schedule
7 CBR-1-H, Rate Scenario 3. Starting January 2015, assuming
8 completion of Wolf Creek dam repairs and exit from the Force
9 Majeure, Big Rivers projected rates under Wholesale Rate Schedule
10 CBR-1-H, Rate Scenario 1, would increase due to the inclusion of
11 Wolf Creek dam repair costs in SEPA rates. Starting January 2017,
12 assuming completion of Center Hill dam repairs, Big Rivers projected
13 rates under Wholesale Rate Schedule CBR-1-H, Rate Scenario 1,
14 would increase further due to inclusion of Center Hill dam repair costs
15 in SEPA rates.
- 16 iv. Presently under the Force Majeure, about every other day SEPA sends
17 a schedule of power that will be delivered to Big Rivers. Big Rivers
18 may reject any portion of that schedule. Upon exiting the Force

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1 Majeure, on a daily basis Big Rivers will send a schedule for power to
2 SEPA.

3 i. Yes, but ultimately through the MISO settlement process
4 SEPA power essentially serves Big Rivers' native load.

5 ii. No.

6 v. SEPA is expected to have exited the current Force Majeure. The
7 attached contract describes how SEPA is billed absent a Force
8 Majeure.

9 i. See response to a.ii., above.

10 ii. SEPA is assumed to go from run-of-the-river under Force
11 Majeure (where Big Rivers has been receiving in excess of
12 300,000 MWhs/year) to normal operations without Force
13 Majeure (where Big Rivers receives a maximum of 267,000
14 MWhs per year) under the SEPA contract.

15 vi. It has nothing to do with BREC's SEPA agreement. It reflects the fact
16 that the City of Henderson Kentucky, Municipal Power and Light
17 ("HMP&L") has its own SEPA contract that is taken into account

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1 when determining BREC's overall off-system sales in the context of
2 BREC's contract regarding HMP&L's Station 2.

3 b. The "City Take of HMPL Gen" is the percentage of the forecasted HMP&L
4 city load of the forecasted HMP&L units' generation.

5 c. The Coleman units are only shown to operate in January, 2014. This can be
6 seen on the "Monthly Sources and Uses" tab.

7 i. There is no need to update PCM and financial forecasts because, in the
8 forecasted test period (Feb-14 to Jan-15), both Coleman Station and
9 Wilson Station are idled. If Coleman Station is required to operate for
10 any part of the forecasted test period due to MISO SSR requirements,
11 Coleman Station will be "net zero" to Big Rivers' financials due to the
12 Century Agreements.

13 d. The PCM run has the Wilson Station idled in Sept-13, when the Hawesville
14 smelter contract is terminated, and the Coleman Station idled in Feb-14, when
15 the Sebree smelter contract is terminated. Big Rivers has stated in its
16 testimony in Docket 2013-00221 and 2012-00535 that the Coleman Station
17 should have been idled first but the Wilson Station was chosen due to the
18 belief that the Coleman Station would be required to operate if the Hawesville

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1 smelter continued operation. This belief proved true as the Coleman Station is
2 under a "must run" (SSR) status with MISO.

3 i. As stated in c., above, both stations are idled in the forecasted test
4 period. There is no need to revise the PCM or financial forecasts.

5 e. No update is needed, as the Century Agreements do not change the financial
6 forecast.

7 f. Big Rivers anticipates any agreements with the Sebree smelter to be similar to
8 the Century Agreements and that there will be no impact to Big Rivers'
9 financial forecast.

10 i. Big Rivers' believe any SSR agreements due to transmission system
11 reliability will have no impact on the financial forecasts.

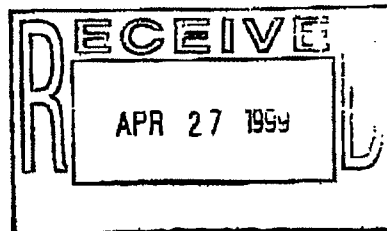
12

13 **Witness)** Robert W. Berry

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Department of Energy
Southeastern Power Administration
Elberton, Georgia 30635-2496



April 23, 1999

Mr. C. William Blackburn
Vice President Power Supply
Big Rivers Electric Corporation
P. O. Box 24
Henderson, KY 42419-0024

Dear Mr. Blackburn:

Enclosed are two originals of Contract No. 89-00-1501-1141 between Southeastern Power Administration (SEPA) and Big Rivers Electric Corporation, which have now been executed by all parties. The two other originals will be retained in SEPA's files.

If you have any questions, please call Kim Ledbetter at 706-213-3837.

Sincerely,

Leon Jourlmon
for Leon Jourlmon
Assistant Administrator for
Finance and Marketing

Enclosures (2)

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Contract No.
89-00-1501-1141
12/15/98

CONTRACT

executed by

THE UNITED STATES OF AMERICA

acting by and through the

SOUTHEASTERN POWER ADMINISTRATION

and

BIG RIVERS ELECTRIC CORPORATION

0.1 THIS CONTRACT executed as of June 30, 1998 by and between the UNITED STATES OF AMERICA (hereinafter called the Government), Department of Energy, acting by and through the Southeastern Power Administrator (hereinafter called the Administrator), and BIG RIVERS ELECTRIC CORPORATION (hereinafter called the Purchaser), a cooperative corporation organized and existing under the laws of the Commonwealth of Kentucky;

W I T N E S S E T H : That,

0.2 WHEREAS the Secretary of Energy is authorized by Section 5 of the Flood Control Act of 1944 (16 U.S.C. 825s) to transmit and dispose of electric power and energy generated at reservoir projects under the control of the Department of the Army, and the Secretary of Energy by Interim Management Directive No. 0204 dated October 3, 1977, as extended, has delegated to the Administrator his authority under said Section 5 with respect to projects then or thereafter constructed in the States of West Virginia, Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, and Kentucky; and

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0.3 WHEREAS the Department of the Army has constructed reservoir projects in the Cumberland River Basin known as the Dale Hollow, Center Hill, Wolf Creek, Old Hickory, Cheatham, Barkley, J. Percy Priest, and Cordell Hull Projects (hereinafter collectively called the Cumberland Projects), together with generating facilities whose output not required in the operation of the projects shall be disposed of by the Administrator;

and

0.4 WHEREAS on August 5, 1993, 58 F.R. 41762, the Administrator issued a written power marketing policy for the Cumberland Basin System of Projects which, among other things, designates the marketing area and specifies the allocation of power within and without the Tennessee Valley Authority (hereinafter referred to as TVA) area; and

0.5 WHEREAS said Section 5 of the Flood Control Act of 1944 directs that preference in the sale of such power and energy be given to public bodies and cooperatives; and

0.6 WHEREAS the Purchaser is a generation and transmission cooperative responsible for the power supply for the cooperatives of Green River Electric Corporation, Henderson-Union Electric Cooperative, Jackson Purchase Energy Corporation, and Meade County Rural Electric Cooperative Corporation, each of which is eligible for an allocation of Cumberland power pursuant to the aforesaid written power marketing policy, is engaged primarily in the business of selling electric power, and owns generating plants and a transmission system in the Commonwealth of Kentucky which is interconnected with TVA; and

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0.7 WHEREAS the Administrator has entered into an agreement executed October 1, 1997, Contract No. 89-00-1501-1129 (hereinafter called Government-TVA Contract), whereby the Cumberland Projects will be operated and TVA transmission facilities will be utilized to implement the aforesaid written power marketing policy, including delivery of the Purchaser's allocation to interconnection points between the Purchaser and TVA; and

0.8 WHEREAS the parties hereto have agreed to sell and purchase power on the terms and conditions hereinafter set forth;

NOW, THEREFORE, the parties hereto mutually covenant and agree as follows:

Section 1. Effective Date and Term of Contract.

This contract shall become effective and all obligations of the parties hereto with respect to the delivery of power hereunder and payment therefor shall commence at midnight, June 30, 1998, and shall continue in effect until terminated on June 30 of any year by the Purchaser upon written notice given to the Administrator not less than thirty-seven (37) months in advance of the date of termination specified therein or by the Administrator upon written notice given to the Purchaser of not less than thirty-six (36) months in advance of the date of termination specified therein; provided, that no such termination shall be effective prior to midnight, June 30, 2017. This contract shall be contingent upon the Government securing alternate arrangements for the necessary services in the event of termination or cancellation of the Government-TVA Contract.

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Section 2. Capacity To Be Made Available.

The Administrator will make available to the Purchaser and the Purchaser will accept delivery of 190,000 kilowatts of dependable capacity for the purposes specified in this contract. Of this quantity, the Purchaser agrees:

(a) To make arrangements and deliver for the account of the Administrator 12,000 kilowatts of dependable capacity each contract year required to meet the contract demand of the Utility Commission for the City of Henderson, Kentucky (hereinafter called Henderson). Capacity deliveries shall be scheduled on a monthly basis in accordance with the provisions of Section 3.

(b) The Administrator will make available to the Purchaser and the Purchaser will accept delivery of 178,000 kilowatts of dependable capacity for the purposes specified in this contract.

Section 3. Energy To Be Made Available.

3.1 The Administrator shall make available each contract year to the Purchaser from the Cumberland Projects through the Purchaser's interconnections with TVA and the Purchaser will schedule and accept an allocation of 1500 kilowatt-hours of energy delivered at the TVA border for each kilowatt of contract demand. For the purposes of this contract, a contract year is defined as the twelve (12) months beginning July 1 and ending at midnight June 30 of the following calendar year. The energy made available for a contract year shall be scheduled monthly such that the maximum amount scheduled in any month shall not exceed 240 hours per kilowatt of the Purchaser's contract demand and the minimum amount

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scheduled in any month shall not be less than 60 hours per kilowatt of the Purchaser's contract demand. The Purchaser may request and the Administrator may approve energy scheduled for a month greater than 240 hours per kilowatt of the Purchaser's contract demand; provided, that the combined schedule of all of the Administrator's Other Customers (customers located outside the TVA area receiving Cumberland power) does not exceed 240 hours per kilowatt of the total contract demands of these customers; provided further, that, if at the beginning of any month hydrological conditions have caused the water elevation at Wolf Creek, Dale Hollow, or Center Hill to be less than two (2) feet above its bottom operating curve, the maximum amount available during the month shall not exceed 220 hours per kilowatt of total Other Customers contract demand. Schedules showing monthly quantities of allocated energy for the contract year shall be furnished to the Administrator's designated operating representative ten (10) days prior to the beginning of each contract year. Schedules showing monthly quantities of allocated energy for the contract year may be revised by the Purchaser at any time and schedules and revisions thereof shall become effective upon reasonable advance notice; provided, that such revised schedules shall reflect a contract year total allocation of 1500 kilowatt-hours for each kilowatt of contract demand. Revised schedules shall be furnished to the Administrator's designated operating representative.

3.2 In addition, schedules showing a breakdown of each monthly quantity into weeks shall be furnished to the Administrator's designated operating representative ten (10) days

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prior to the beginning of each month. Under this contract, the seven-day week shall commence at the beginning of Sunday and extend to the end of Saturday.

3.3 Weekly schedules showing hourly quantities of energy to be delivered the following week shall be furnished by the Purchaser on Wednesday prior to the beginning of the week to the Administrator's designated operating representative, and energy shall be taken by the Purchaser in accordance with such hourly schedules, subject to change only if unforeseen circumstances arise which necessitate such change.

3.4 The energy associated with the capacity allocated to Henderson in any contract year in accordance with the provisions of Section 2 shall be scheduled by Henderson in combination with the Purchaser's schedule for delivery of the combined contract demands. Schedules showing hourly quantities of energy to be delivered shall be furnished by Henderson for each week to both the Purchaser's designated operating representative and the Administrator's designated operating representative. Energy shall be taken by Henderson in accordance with such schedules subject to changes only if unforeseen circumstances arise which necessitate such change.

3.5 In the event interruptions in the interconnections with TVA prevent or reduce the delivery of scheduled power, such power will be appropriately rescheduled.

3.6 Notwithstanding other provisions of this contract, the Purchaser will accept delivery and pay for during a contract year 1500 kilowatt-hours of energy delivered at the TVA border for

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each kilowatt of contract demand, except for provisions cited in subsection 3.4.

Section 4. Points of Delivery and Characteristics of Capacity and Energy.

Electric capacity and energy supplied hereunder will be three-phase alternating current at a nominal frequency of sixty hertz and will be delivered at the Barkley Project switchyard, a delivery point in the vicinity of the Paradise steam plant, and such points of delivery as may be hereafter agreed upon by the Administrator and TVA.

Section 5. Measurement of Capacity and Energy.

Electric capacity and energy delivered hereunder to the Purchaser will be accounted for at or as of the points of delivery specified in Section 4.

Section 6. Capacity and Energy Accounting.

Capacity and energy from the Cumberland Projects under this contract shall be accounted for on the basis of capacity made available pursuant to Section 2 and energy scheduled pursuant to Section 3. Energy scheduled for any week which falls within two (2) months shall be divided between the months on the basis of the schedules furnished by the Purchaser.

Section 7. Rates for Capacity and Energy Made Available to Purchaser.

7.1 The Purchaser will pay the Government each billing month for capacity and energy made available and delivered by the Government in accordance with the wholesale power rate schedule CBR-1-C, a copy of which is attached hereto.

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7.2 The rates specified in this Section 7 are subject to interim confirmation and approval by the Deputy Secretary of the Department of Energy and subject to final confirmation and approval by the Federal Energy Regulatory Commission.

7.3 The rates and charges for the sale of capacity and energy under this contract shall be subject to adjustment on July 1, 1999, and thereafter at successive intervals of one (1) year; provided that any adjusted rates or charges shall not become effective unless and until confirmed and approved on an interim basis by the Deputy Secretary of the Department of Energy and subject to final confirmation and approval by the Federal Energy Regulatory Commission; provided further, that the Government may extend any rate adjustment date up to one (1) year. The Government shall notify the Purchaser in writing at least three (3) months prior to the effective date of any proposed adjustment in rates and charges, including the amount of such proposed adjustment and the reasons therefor. The Government shall also notify the Purchaser promptly in writing of any adjustments in rates and charges when confirmed and approved by the Federal Energy Regulatory Commission. If such adjusted rates and charges result in increased costs to the Purchaser, it may cancel this contract, upon giving the Government written notice of cancellation within thirty (30) days after receipt of notice from the Government advising of such adjusted rates and charges, such cancellation shall become effective at a time specified by the Purchaser not less than one (1) year nor more than three (3) years from the effective date of the adjusted rates and charges; provided, however, that the Purchaser shall pay the

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adjusted rates and charges from the date they become effective until the effective date of cancellation.

Section 8. Billing and Payments.

8.1 The billing month under this Contract shall end at 2400 hours C.D.T. or C.S.T., whichever is currently effective on the last day of each calendar month.

8.2 Bills for each month's service furnished by the Administrator under this Contract shall be mailed as soon as practicable after the end of the billing month and shall be paid on or before the twentieth day following the date of mailing.

Section 9. Nonpayment of Bills.

If the Purchaser fails to pay any amount due under this Contract within twenty (20) days from the date of mailing of applicable bills, such amount shall be considered overdue and an interest charge or charges will be added equal to the sum of (1) \$150.00 and (2) an amount calculated in the following manner: the current or other appropriate value of funds as determined by the U. S. Department of Treasury pursuant to the Treasury Fiscal Requirements Manual is to be applied on a daily basis to the unpaid portion of the bill for each day of the period from and after the due date to and including the date of payment in full.

Section 10. Service Interruptions.

10.1 No credit shall be allowed the Purchaser for any interruption or curtailment of scheduled capacity and energy delivery to the Purchaser's system for the account of the

Big Rivers Electric Corporation

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Administrator resulting from conditions on the Purchaser's power system, or for any interruption or curtailment of capacity and energy which has been planned and agreed to in advance by the operating representatives of the parties. All such agreements shall be confirmed in writing.

10.2 When capacity and energy delivery to the Purchaser's system for the account of the Administrator is reduced or interrupted and such reduction is not due to conditions on the Purchaser's system, or has not been planned and agreed to in advance, the monthly demand charge for capacity made available under Section 2 shall be reduced as to the kilowatts of such scheduled capacity which have been interrupted or reduced for each day in accordance with the following formula:

| | | |
|--|---|---|
| Number of kilowatts unavailable for at least 12 hours in any calendar day | X | <u>Monthly Capacity Charge Per KW</u> Number of days in billing month |
|--|---|---|

Section 11. Uncontrollable Forces.

Neither party hereto shall be considered to be in default in respect of any obligation hereunder, if prevented from fulfilling such obligation by reason of uncontrollable forces, including but not limited to failure of facilities, flood, earthquake, storm, lightning, fire, epidemic, war, riot, civil disturbance, labor disturbance, materials or equipment shortages, fuel curtailment or shortage, or restraint by court or public authority which by exercise of reasonable diligence and foresight

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could not have been avoided, but excluding drought. Either party rendered unable to fulfill any obligation by reason of an uncontrollable force shall remove such inability with all reasonable dispatch.

Section 12. Provisions Relative to Employment.

During the performance of this Contract, the Purchaser agrees as follows:

(a) The Purchaser will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Purchaser will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

The Purchaser agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

(b) The Purchaser will, in all solicitations or advertisements for employees placed by or on behalf of the Purchaser, state that all qualified applicants will receive

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consideration for employment without regard to race, color, religion, sex, or national origin.

(c) The Purchaser will send to each labor union or representative of workers with which they have a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the Purchaser's commitment under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(d) The Purchaser will comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.

(e) The Purchaser will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to their books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(f) In the event of the Purchaser's noncompliance with the nondiscrimination clauses of this Contract or with any of such rules, regulations, or orders, this Contract may be canceled, terminated, or suspended in whole or in part and the Purchaser may

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be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies involved as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(g) The Purchaser will include the provisions of paragraphs (a) through (g) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Purchaser will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance; provided, however, that in the event the Purchaser becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the Purchaser may request the United States to enter into such litigation to protect the interest of the United States.

Section 13. Notices.

Except as otherwise specified herein, any notice required or authorized by this Contract shall be deemed properly given on behalf of the Purchaser if mailed, postage prepaid, to the Administrator at the address shown on the signature page hereof,

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and on behalf of the Administrator if mailed, postage prepaid, to the official representative of the Purchaser at the address shown on the signature page hereof. The designation of the person to represent either party for such purposes or the address of such person may be changed at any time by similar notice.

Section 14. Officials Not to Benefit.

No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this Contract or to any benefit that may arise herefrom, but this restriction shall not be construed to extend to this Contract if made with a corporation or company for its general benefit.

Section 15. Waivers.

Any waiver at any time by either party hereto of its rights with respect to a default or any other matter arising in connection with this Contract shall not be deemed to be a waiver with respect to any subsequent default or matter.

Section 16. Transfer of Interest in Contract.

No voluntary transfer of this Contract or of the rights of the Purchaser hereunder shall be made without the written approval of the Secretary of Energy; provided, that any successor to or assignee of the rights of the Purchaser, whether by voluntary transfer, legislatively authorized sale, judicial sale, foreclosure sale, or otherwise, shall be subject to all the provisions and conditions of this Contract to the same extent as though such successor or assignee were the original contractor hereunder;

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provided further, that the execution of a mortgage or trust deed, or judicial or foreclosure sale made thereunder, shall not be deemed voluntary transfers within the meaning of this Section 16.

Section 17. Termination of Existing Contract.

The existing contract between the Administrator and the Purchaser dated June 30, 1984, as amended, (designated as Contract No. 89-00-1501-637) will be replaced by this Contract as of its effective date; however, all liabilities accrued under the terms of the existing contract shall be preserved.

Section 18. Portability of Allocations.

18.1 Due to the uncertainty of the future of the electric utility industry with respect to power suppliers, transmission access, ancillary services, and a myriad of unresolved issues, the Administrator plans to formulate a Power Marketing Policy on the allocation and portability of Government power (hereinafter called Policy). The Policy will be developed with full public participation and review.

18.2 The Parties hereto agree that if the Policy should contain provisions contrary to contract provisions in this Contract, the Parties hereto will, where necessary, modify this Contract, or operating procedures under this Contract, to accommodate the provisions of the Policy.

Section 19. Reimbursable Work Account.

19.1 A Reimbursable Work Account may be established for operations and maintenance expenses of both the U. S. Army Corps of

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Engineers and the Administrator, and improvements, replacements, and rehabilitation expenses at the Projects. The Account may be established for the Southeastern Federal Power Program, individual systems of Projects, or a portion of a system of Projects. Subsequent to a determination by the Administrator and the Corps of Engineers, if necessary, for the need for customer funding, approval for the establishment and utilization of the Account for specific purposes will be by agreement of preference customers and the Corps of Engineers. The Parties acknowledge that all Reimbursable Work Accounts will also require Budget approval by Congress, the Department of Energy, and the Office of Management and Budget.

19.2 It is acknowledged by both parties that this Section 19 may need to be adjusted to meet specific requirements of Congress in granting the Administrator permission to use Alternative Funding.

Section 20. Energy and Economic Efficiency Measures.

Each customer that purchases the Government's power is encouraged to participate in an integrated resource plan that considers both supply and demand side alternatives. It is recognized that some Government customers are members of a power supply organization that does resource planning for its customers (i.e., power supply cooperatives and joint action agencies). Where a customer, or a power supply organization that does resource planning for a Government customer, is responsible to a regulatory

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body or another governmental agency for an integrated resource plan, the customer will make a copy of such integrated resource plan available to the Administrator. All Government customers shall agree to encourage the efficient use of energy by ultimate consumers.

Section 21. Contingent Upon Appropriations.

This Contract is made contingent upon Congress making available the necessary funds to enable the Administrator to carry out the provisions of this Contract. In the event such appropriation or other provision for payment is not made, this Contract shall be subject to termination or renegotiation.

IN WITNESS WHEREOF, the parties hereto have caused this contract to be executed as of the day and year first above.

UNITED STATES OF AMERICA
Department of Energy

By Charles L. Borchardt
Administrator
Southeastern Power Administration
2 South Public Square
Elberton, Georgia 30635-2496

BIG RIVERS ELECTRIC CORPORATION

By [Signature]
President
P. O. Box 24, 201 Third Street
Henderson, Kentucky 42420

(SEAL)

ATTEST:

Paula Mitchell
Secretary

Big Rivers Electric Corporation
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Attachment

The rate schedule below was approved on a final basis by the Federal Energy Regulatory Commission on December 14, 1994, for the period from July 1, 1994, through June 30, 1999, in Docket Number EP94-3021-000. The rate schedule is attached to this contract to provide the current rate for capacity, energy, and additional energy. If any other language in this attached rate schedule conflicts with the main body of the contract, the language in the main body of the contract prevails.

United States
Department of Energy
Southeastern Power Administration

Wholesale Power Rate Schedule CBR-1-C

Availability:

This rate schedule shall be available to Big Rivers Electric Corporation and includes the City of Henderson, Kentucky, (hereinafter called the Customer).

Applicability:

This rate schedule shall be applicable to electric capacity and energy available from the Dale Hollow, Center Hill, Wolf Creek, Cheatham, Old Hickory, Barkley, J. Percy Priest and Cordell Hull Projects (all of such projects being hereinafter called collectively the "Cumberland Projects") and sold in wholesale quantities.

Character of Service:

The electric capacity and energy supplied hereunder will be three-phase alternating current at a nominal frequency of sixty hertz. The power shall be delivered at nominal voltages of 13,800 volts and 161,000 volts to the transmission system of Big Rivers Electric Corporation.

Points of Delivery

Capacity and energy delivered to the Customer will be delivered at points of interconnection of the Customer at the Barkley Project Switchyard, at a delivery point in the vicinity of the Paradise steam plant and at such other points of delivery as may hereafter be agreed upon by the Government and TVA.

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Wholesale Power Rate Schedule CBR-1-C

Monthly Rate:

The monthly rate for capacity and energy sold under this rate schedule shall be:

Demand charge:

\$2.738 per kilowatt/month of total contract demand

Energy Charge:

None

Energy to be Furnished by the Government:

The Government shall make available each contract year to the customer from the Projects through the customer's interconnections with TVA and the customer will schedule and accept an allocation of 1,500 kilowatt-hours of energy delivered at the TVA border for each kilowatt of contract demand. A contract year is defined as the 12 months beginning July 1 and ending at midnight June 30 of the following calendar year. The energy made available for a contract year shall be scheduled monthly such that the maximum amount scheduled in any month shall not exceed 220 hours per kilowatt of the customer's contract demand and the minimum amount scheduled in any month shall not be less than 60 hours per kilowatt of the customer's contract demand. The customer may request and the Government may approve energy scheduled for a month greater than 220 hours per kilowatt of the customer's contract demand; provided, that the combined schedule of all SEPA customers outside TVA and served by TVA does not exceed 220 hours per kilowatt of the total contract demands of these customers.

Billing Month:

The billing month for power sold under this schedule shall end at 2400 hours CDT or CST, whichever is currently effective, on the last day of each calendar month.

Conditions of Service:

The customer shall at its own expense provide, install, and maintain on its side of each delivery point the equipment necessary to protect and control its own system. In so doing, the installation, adjustment, and setting of all such control and protective equipment at or near the point of delivery shall be coordinated with that which is installed by and at the expense of TVA on its side of the delivery point.

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Wholesale Power Rate Schedule CBR-1-C

Service Interruption:

When delivery of capacity is interrupted or reduced due to conditions on the Administrator's system beyond his control, the Administrator will continue to make available the portion of his declaration of energy that can be generated with the capacity available.

For such interruption or reduction due to conditions on the Administrator's system which have not been arranged for and agreed to in advance, the demand charge for capacity made available will be reduced as to the kilowatts of such capacity which have been interrupted or reduced in accordance with the following formula:

| | | |
|---|--|---|
| Number of kilowatts unavailable for at least 12 hours in any calendar day | <u>Monthly capacity charge</u> X number of days in billing month | <u>Contract demand</u> X 880,000 kilowatts |
|---|--|---|

July 1, 1994

BIG RIVERS ELECTRIC CORPORATION

**APPLICATION OF BIG RIVERS ELECTRIC CORPORATION
FOR A GENERAL ADJUSTMENT IN RATES
CASE NO. 2013-00199**

**Response to the Office of the Attorney General's
Initial Request for Information
dated August 19, 2013**

September 3, 2013

- 1 **Item 173)** *Explain if the Financial Model or the revenue requirements calculations of*
2 *Big Rivers use some type of inflation factor, productivity factor, or other type of growth*
3 *factor for projecting amounts included in the revenue requirement. Address the following:*
- 4 *a. Explain the type and source of inflation factors, productivity factors, and other*
5 *types of factors that are used to forecast increases or decreases in each cost in*
6 *the revenue requirement, and provide source documents supporting these*
7 *factors (i.e., factors from Department of Labor, and if it is CPI-U, GDPPI, etc.).*
- 8 *b. Provide the specific inflation, productivity, and other factor that is applied to*
9 *each type of cost for a prior historical period, the base period (show actual and*
10 *forecasted amounts separately) and the forecasted test period and provide all*
11 *supporting documentation and calculations. Explain why the specific factor*
12 *was applied to each specific type of cost. Provide all supporting documentation*
13 *and calculations showing the specific factor multiplied by each type of cost to*
14 *calculate amounts included in the base period and forecasted test period.*
- 15 *c. Provide a comparison of historical costs by cost element (payroll cost, benefits,*
16 *insurance, bad debts, advertising, professional costs, etc.) for the five most*
17 *recent actual periods 2008, 2009, 2010, 2011, and 2012 and show the amount*
18 *and percentage change in cost element from year to year. Explain and show*
19 *how the actual changes in the historical costs by cost element for each year*

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- 1 *correlates to the related inflation or productivity factor used by Big Rivers in*
2 *this rate case for converting historical costs (by cost element) to the base period*
3 *and fully forecasted test period costs. Provide supporting documentation and*
4 *calculations.*
- 5 *d. Regarding (c), explain if the inflation factors used by Big Rivers in the revenue*
6 *and amounts for the base period and forecasted test period are supported by the*
7 *analysis in (c), and explain why or why not and provide supporting*
8 *documentation and calculations.*
- 9 *e. Provide precedent in other cases in Kentucky where this approach of using*
10 *inflation factors has been accepted and has been rejected by the Commission.*
- 11 *f. Explain if Big Rivers used these same inflation factors for the same costs in its*
12 *prior rate case CN 00535 and explain why or why not, and provide*
13 *documentation supporting the inflation factors used in the prior rate case.*
- 14 *g. Explain if Big Rivers used any "productivity factors" or deflation factors to*
15 *apply to historical cost elements for purposes of arriving at base period and*
16 *fully forecasted test period costs, and explain why it was not reasonable to use*
17 *any productivity/deflation factors.*
- 18

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1 **Response)** Big Rivers objects that this request is overly broad, unduly burdensome, and
2 not reasonably calculated to lead to the discovery of admissible evidence. Big Rivers further
3 objects that information pertaining to periods prior to the Unwind Transaction is not
4 available and not relevant to this matter. Notwithstanding these objections, and without
5 waiving them, Big Rivers responds as follows.

6 a. In its budgeting and financial planning process, Big Rivers relies to the fullest extent
7 possible upon cost and pricing information provided by its suppliers, contractors,
8 and/or outside service providers. Big Rivers considers this method of forecasting
9 increases or decreases to its costs to be more reasonable than simply escalating
10 historical values using index data or growth rates. A significant portion of Big
11 Rivers' forecasted costs, including multi-year contracts with specified pricing, are
12 determined in this manner. This is the case for a substantial portion of O&M and
13 capital costs at the plants (e.g. maintenance, materials and supplies), outside
14 professional services, bargaining unit employee compensation, and other A&G
15 expenses. Vendor proposals, price quotes, and existing contracts are relied upon to
16 establish the forecasted costs in these instances. In areas where specific cost
17 information is unavailable, Big Rivers researches industry-related studies and
18 publications to assist in determining reasonable escalation parameters. Examples

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1 include but are not limited to (i) J.D. Energy Publications and ACES information for
2 the process of negotiating long-term coal contracts, (ii) the USGS Mineral Yearbook
3 for information related to pricing for lime reagent materials, (iii) the Corn Belt index
4 for information related to pricing for ammonia, and (iv) the NRECA G&T Managers
5 Association and CPI for compensation-related information utilized to help with
6 bargaining unit contract negotiations and non-union pay increases. (Note that the
7 aforementioned resources are relied upon by Big Rivers in the forecasting process,
8 but are not strictly applied as escalation factors in each case, so reconciliation to
9 particular accounts is not possible.) Additionally, the load forecast (which is used in
10 the production cost model, Big Rivers Financial Model, and the cost of service study
11 in this proceeding) relies on assumptions for growth in the number of households,
12 employment, gross national product, average income per household, retail sales,
13 inflation, and heating and cooling degree days. These assumptions are used in the
14 econometric models used by GDS Associates, Inc. to develop the Big Rivers 2013
15 Load Forecast, as described in the CONFIDENTIAL attachments provided in
16 response to AG 1-139. Big Rivers relies upon management experience to project cost
17 increases for any items for which contract specifications, supplier pricing, market
18 data, industry trends or other third party information is not readily available. This

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1 approach is repeated each year when the budgeting process begins for the upcoming
2 budget and financial planning period.

3 b. Please see the response to part (a).

4 c. Please see AG 1-62 for budget variance reports for fiscal years ending 12/31/2012,
5 12/31/2011 and 12/31/2010. For additional information regarding historical costs,
6 please see the following items containing responses to the Commission Staff's Initial
7 Request for Information in the instant case: 29 (a & b), 32, 34, 41, 42, 43, 46, 47, 50,
8 54, and 56(b). Otherwise, the requested information does not exist; please see the
9 response to part (a).

10 d. Please see the response to parts (a) and (c).

11 e. This request seeks legal research, not data. Big Rivers objects that this request seeks
12 information subject to the attorney-client and attorney work product privileges.

13 f. The method Big Rivers used to develop its forecasts in Case No. 2012-00535 was
14 described in the Direct Testimony of DeAnna M. Speed in that proceeding. The
15 approach with respect to inflation factors in that case was the same approach used in
16 this case. Please see the response to part (a).

17 g. Please see the response to part (a).

18

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1 **Witnesses)** Billie J. Richert and Jeffrey R. Williams

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1 **Item 174)** *Referencing the Direct Testimony of John Wolfram p. 34, l.2 to l.5, please*
2 *provide the following:*

3 *a. Background calculations and assumptions used to arrive at a distribution*
4 *system cost adder of \$0.033 per kWh for all the distribution cooperatives;*
5 *and*

6 *b. Actual distribution system cost adders for each of the distribution*
7 *cooperatives.*

8
9 **Response)**

10 a. The distribution system cost adder was estimated by comparing the Members'
11 average rural revenue in cents per kWh with their average cost of purchased
12 power in cents per kWh, as noted on the Members' RUS Form 7 reports for
13 2011 and 2012. Please see the attachment.

14 b. Please see the attachment.

15

16 **Witness)** John Wolfram

**Big Rivers Electric Corporation
Case No. 2013-00199**

**Attachment for Response to AG 1-174
Estimate of Distribution System Cost Adder**

2011

| | Total Cost of Purchased Power (RUS Form 7, Part K, Column F) | kWh Purchased (RUS Form 7, Part K, Column E) | \$/kWh | |
|------------------------|---|---|---------------|--------------|
| Meade | 19,772,602 | 480,251,350 | 0.041 | |
| JP | 27,759,591 | 683,757,836 | 0.041 | |
| Kenergy | 387,543,341 | 9,449,690,476 | 0.041 | |
| Total | 435,075,534 | 10,613,699,662 | 0.041 | |
| Rural Customers | Revenue (RUS Form 7, Part O, Column C) | kWh Sold (RUS Form 7, Part O, Column C) | \$/kWh | Adder |
| Meade | 27,479,674 | 364,735,373 | 0.075 | 0.034 |
| JP | 29,070,144 | 411,230,492 | 0.071 | 0.030 |
| Kenergy | 56,283,522 | 754,123,824 | 0.075 | 0.034 |
| Total | 112,833,340 | 1,530,089,689 | 0.074 | 0.033 |

2012

| | Total Cost of Purchased Power (RUS Form 7, Part K, Column F) | kWh Purchased (RUS Form 7, Part K, Column E) | \$/kWh | |
|------------------------|---|---|---------------|--------------|
| Meade | 20,783,865 | 465,661,930 | 0.045 | |
| JP | 29,783,789 | 668,863,581 | 0.045 | |
| Kenergy | 456,369,581 | 9,782,022,935 | 0.047 | |
| Total | 506,937,235 | 10,916,548,446 | 0.046 | |
| Rural Customers | Revenue (RUS Form 7, Part O, Column C) | kWh Sold (RUS Form 7, Part O, Column C) | \$/kWh | Adder |
| Meade | 27,769,525 | 346,401,726 | 0.080 | 0.036 |
| JP | 31,043,685 | 395,868,914 | 0.078 | 0.034 |
| Kenergy | 58,093,381 | 723,477,955 | 0.080 | 0.034 |
| Total | 116,906,591 | 1,465,748,595 | 0.080 | 0.033 |

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1 **Item 175)** *Referencing the Exhibit Wolfram-5 please explain the difference between*
2 *the Rural and the Large Industrial Customer Class rates for FAC, Non-Smelter Non-FAC*
3 *PPA, and Surcredit.*

4

5 **Response)** The differences between the Rural and Large Industrial customer class rates
6 for FAC, Non-Smelter Non-FAC PPA, and Surcredit are all approximately 1% and result
7 from rounding. Absent rounding, the values for these billing factors should be the same for
8 the Rurals and the Large Industrials.

9

10 **Witness)** John Wolfram