ATTORNEYS AT LAW

Ronald M. Sullivan Jesse T. Mountjoy Frank Stainback James M. Miller Michael A. Fiorella William R. Dexter Allen W. Holbrook R. Michael Sullivan Bryan R. Reynolds Tyson A. Kamuf Mark W. Starnes C. Ellsworth Mountjoy Susan Montalvo-Gesser

August 20, 2007

RECEIVED

AUG 2 1 2007

PUBLIC SERVICE COMMISSION

Via Federal Express

Ms. Elizabeth O'Donnell Executive Director Public Service Commission 211 Sower Boulevard, P.O. Box 615 Frankfort, Kentucky 40602-0615

Re: In the matter of: The Application of Big Rivers Electric Corporation for a Certificate of Public Convenience and Necessity to Construct a 161 kV Transmission Line in Ohio County, Kentucky, Case No. 2007-00177

Dear Ms. O'Donnell:

Enclosed are an original and seven copies of the response of Big Rivers Electric Corporation to the Commission Staff's first data request in the above referenced matter. I supervised the preparation of the response, and the response is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry. I certify that a copy of the response has been served on the attached service list.

Sincerely,

"R Tyson Kamuf

TAK/ej Enclosures

cc: Michael H. Core David Spainhoward David Crockett Bill Blackburn Mark A. Bailey Service List

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SERVICE LIST PSC CASE NO. 2007-00177

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COUNSEL FOR ALCAN ALUMINUM AND CENTURY ALUMINUM

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

THE APPLICATION OF BIG RIVERS)ELECTRIC CORPORATION FOR A)CERTIFICATE OF PUBLIC CONVENIENCE)AND NECESSITY TO CONSTRUCT A 161)kV TRANSMISSION LINE IN OHIO)COUNTY, KENTUCKY)

RESPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007

August 21, 2007

| 4 | RESPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007 CASE NO. 2007-00177 | | | | |
|----------|---|---|--|--|--|
| 1 2 | | August 21, 2007 | | | |
| 3 | Item 1) | Refer to page 2, paragraph 4 of Big Rivers' application. | | | |
| 4 | a) | What length of time does Big Rivers estimate will be required to construct | | | |
| 5 | the proposed | 13-mile transmission line, including final engineering work, the acquisition | | | |
| 6 | of easements, | obtaining environmental approvals, etc.? | | | |
| 7 | b) | What length of time does Big Rivers estimate will be required for the | | | |
| 8 | actual physic | al construction of the proposed 13-mile transmission line? | | | |
| 9 | | | | | |
| 10 | Response) | 1a) Big Rivers estimates the time required for the construction of the | | | |
| 11 | 13-mile trans | mission line, including all remaining work, to be approximately eighteen | | | |
| 12 | (18) months a | after the CPCN is granted. | | | |
| 13 | | | | | |
| 14 | | 1b) Big Rivers estimates the time required for the physical construction | | | |
| 15 | | oproximately nine (9) months. This timing assumes that at the beginning of | | | |
| 16 | | th construction period all regulatory approvals have been received, that all | | | |
| 17 | - | clearing and construction contracts have been bid and awarded, that Big | | | |
| 18 | Rivers has possession of all rights-of-way and permits, and that all materials are on hand. | | | | |
| 19 | | | | | |
| 20 | **** | | | | |
| 21 | Witness) | David Crockett | | | |
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| | | Item 1 Page 1 of 1 | | | |
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2 3 Item 2) Refer to page 3, paragraph 7 of Big Rivers' application. 4 a) What is the current target date for Big Rivers to apply for Commission approval of the "Unwind Transaction"? 5 Provide a detailed description of the relationship between the Unwind 6 b) Transaction and the Certificate of Public Convenience and Necessity ("CPCN") 7 8 requested by Big Rivers for the proposed 13-mile transmission line. If not included in the previous response, explain why Big Rivers is 9 c) pursuing the Unwind Transaction, and describe the benefits that will accrue to Big 10 Rivers, its members, and/or the retail customers served by its members as a result of 11 12 completing the Unwind Transaction. 13 14 **Response**) 2a) Big Rivers has not yet filed the Unwind Transaction case because 15 the Big Rivers modeling and the smelter contracts are not complete, after which Big 16 Rivers must obtain the approval of its distribution cooperative members to the Unwind 17 Transaction and to the extensions of their wholesale power contracts. Both those groups 18 need substantial amounts of information in the form of the latest information applied to 19 Big Rivers' unwind financial model in order to make the long-term commitments 20 required of them in the Unwind Transaction. Big Rivers also must reach agreement with 21 the City of Henderson Utility Commission. 22 Big Rivers is looking to complete its modeling and reach agreement with the 23 smelters in late August or early September. Its members would then consider the 24 Unwind Transaction and the amendments to their contracts in September. Big Rivers 25 would expect to reach agreement with the City of Henderson Utility Commission during that period. Based upon those assumptions, the case seeking the principal 26 UnwindTransaction approvals should be filed sometime in October. 27 28 29 The transmission line for which Big Rivers seeks a certificate of public 2b) convenience and necessity is part of a plan to mitigate the risk to Big Rivers, Big Rivers' 30

30 || convenience and necessity is part of a plan to mitigate the risk to Big Rivers, Big Rivers
31 || members, the smelters and Big Rivers' creditors that two large aluminum smelter retail
32 || customers on the Big Rivers system could cease smelting operations after the Unwind

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Transaction closes. This transmission line project will not be constructed unless the Unwind Transaction is approved by the Commission, and closes.

As is discussed elsewhere in these data request responses, as part of the Unwind 5 6 Transaction, Big Rivers will enter into agreements to provide the wholesale power supply to support retail electric service through its member cooperative, Kenergy Corp., to two 7 8 aluminum smelters: Alcan Primary Products Corporation ("Alcan") and Century 9 Aluminum of Kentucky General Partnership ("Century"). The total smelter load under the new agreements signed in connection with the Unwind Transaction will be 850 10 megawatts, compared with the smelter total load of 600 megawatts in 1998, when Big 11 12 Rivers last served the full aggregate load of the smelters. Under the new agreements, Big Rivers anticipates the smelters will have a right to unilaterally terminate their agreements 13 14 on one year's notice, with the termination allowed to occur no earlier than December 31, 15 2011.

Big Rivers must restructure its long-term secured debt, refinancing a portion of
that debt, in order to implement the Unwind Transaction. For Big Rivers to accomplish
those tasks it must obtain certain consents and agreements from its existing creditors,
participation of new creditors, and investment grade ratings on its debt from Standard and
Poor's and Moody's.

21 Big Rivers' financial advisor, Goldman Sachs, has told Big Rivers that the risk of losing the revenue from wholesale sales of power for resale to the smelters in the event of 22 23 both smelters ceasing smelting operations would be a major concern for the rating 24 agencies and Big Rivers' creditors, and that Big Rivers must have a plan to mitigate that 25 risk. As things currently stand, in the event Big Rivers were to lose both smelters after 26 the closing of the Unwind Transaction it would have 850MW of additional system 27 capacity that it would have to take to market. The Phase Two transmission improvements will enable Big Rivers to sell that 850 MW plus the extra capacity that is 28 29 available when the balance of its members' loads are at their lowest levels, for a total of 30 1380 MW. Today its transmission system would allow it to get only 462 MW of this 31 surplus capacity to market. With the completion of the first phase of its transmission 32 plan Big Rivers will be able to export 912 MW of surplus capacity to the market. If the 33 smelters ceased operation and Big Rivers were only able to sell 912 MW into the market,

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Big Rivers' members would be deprived of the revenue that could be generated from sale
of the difference between 912 MW and 1380 MW. If market rates were to drop below
the smelter rates, the inability to get all of its power off system could cause a deficit that
would also lead to a default under its debt instruments and leases in a matter of months.
With this prospect, it will be impossible to get the needed approvals from creditors and
ratings from rating agencies. In order to get such approvals and ratings, the structure of
the Unwind Transaction must protect against this possibility.

10 In order to protect against this possibility, Big Rivers first asked the General 11 Assembly to amend a section of KRS Chapter 279 to enable a cooperative like Big Rivers 12 that found itself with a sudden, large drop in system load to remarket that capacity to non-members without endangering its cooperative status under state law. The General 13 14 Assembly adopted that amendment, and it was signed into law by the Governor in 2006. 15 Second, Big Rivers proposed upgrades for the export capacity of its transmission system 16 that would allow Big Rivers to move the combined load of both smelters to Big Rivers' 17 border for resale.

When Big Rivers met with its creditors to inform them of the proposed Unwind 18 19 Transaction, each of them expressed concern about the concentration of load in the two 20 aluminum smelters, and Big Rivers' dependence upon the revenue from the smelters. 21 Big Rivers told its creditors of its plans to upgrade its transmission system, and assured 22 them that obtaining a CPCN for the final set of transmission upgrades to the Big Rivers 23 transmission system that were necessary to export the loads of both smelters off the Big 24 Rivers system would be a condition to closing of the Unwind Transaction. Obtaining the 25 CPCN sought in this case is a condition to closing in both the Transaction Termination 26 Agreement between Big Rivers and the 1998 Transaction parties (which is already 27 signed), and the draft agreements with the smelters.

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29 2c) Big Rivers is pursuing the Unwind Transaction because it will enable Big
30 Rivers to regain control of the operation, maintenance and generation output of its
31 generating units now rather than in 2023, and to manage those assets in the best interests
32 of Big Rivers and its members. The consideration received by Big Rivers from the E.ON
33 parties for the Unwind Transaction puts Big Rivers in the financial position that enables it

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to take back and operate its assets at this time. At the closing, WKEC will give Big Rivers cash and other consideration that will change Big Rivers' equity on the date of closing from a negative equity of approximately 17% to a positive equity of more than 22%.

The improvement in Big Rivers' financial condition and the restructuring of its
debt in connection with the Unwind Transaction will enable Big Rivers to borrow money
on a long-term secured basis, something that has been virtually impossible for Big Rivers
to accomplish under its credit arrangements in place since 1998, which include a "no
further advances" loan agreement with the Rural Utilities Service. This will position Big
Rivers to respond in the most economic manner to future demands for growth on Big
Rivers' system, and to manage its generating assets for the long-term.

14 By giving Big Rivers control over all the output of its generating units, under the 15 Unwind Transaction Big Rivers will be in a position to provide the current power needs of the smelters, whose existing power supply contracts with Kenergy Corp. and in turn 16 17 with Western Kentucky Energy expire in 2010 and 2011, respectively. The Commission 18 summarized the comments of the smelters on the power supply dilemma they face 19 without the Unwind Transaction in Appendix B to its September 15, 2005, report in An 20 Assessment of Kentucky's Electric Generation, Transmission and Distribution Needs, 21 Administrative Case No. 2005-00090, pages 106-109. In that proceeding, the smelters 22 noted that when their contracts expire, Big Rivers will have insufficient resources to 23 serve their wholesale needs. And they further stated that if Kenergy could only meet 24 their needs with market priced power, they would not be able to continue operations. The 25 smelters filed in that proceeding a document titled "The Estimated Economic and Fiscal Impacts of a Shut-Down of Kentucky's Two Aluminum Smelters." The study concludes 26 27 that the direct loss of 1,400 high-paying industrial jobs and the other economic benefits 28 that flow from the smelters' presence in the Big Rivers service area would have a 29 significant, negative impact on Western Kentucky. A principal reason Big Rivers has 30 pursued the Unwind Transaction is because it provides the only opportunity for Big 31 Rivers to participate meaningfully in the effort to preserve the economic benefits of the 32 smelter operations for the areas served by Big Rivers' members.

| | | SPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE | | | | | |
|----------|-------------------------------------|---|--|--|--|--|--|
| | COMM | COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007 CASE NO. 2007-00177 | | | | | |
| 1 | | August 21, 2007 | | | | | |
| 2 3 | These | e are the general reasons that Big Rivers is pursuing the Unwind Transaction. | | | | | |
| 4 | | vill explain these reasons in more detail in its completed application for | | | | | |
| 5 | approval of the Unwind Transaction. | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | Witness) | Michael H. Core | | | | | |
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| | | Item 2 Page 5 of 5 | | | | | |
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| | RESPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007 CASE NO. 2007-00177 |
|----------|---|
| 1 2 | August 21, 2007 |
| 3 | Item 3) Paragraph 7 on page 4 of the application states that the combined loads of |
| 4 | the two aluminum smelters are approximately 850 MW. |
| 5 | a) What percentage of Big Rivers' total system demand does the 850 MW |
| 6 | represent? How much of the 850 MW load is used by each of the two smelters? |
| 7 | b) Is Big Rivers aware of whether other Kentucky jurisdictional electric |
| 8 | utilities serve individual loads comparable in size to the smelter loads or have one or two |
| 9 | customers that represent a comparable percentage of the utilities' total system demand? |
| 10 | If yes, identify the utilities and the customer(s). |
| 11 | |
| 12 | Response 3a) Approximately 55%. The Alcan smelter is 368 MW and the Century |
| 13 | smelter is 482 MW of the total prospective smelter load of 850 MW. |
| 14 15 | 3b) Big Rivers is neither aware of any other individual loads in Kentucky |
| 16 | comparable in size to the smelter loads, nor aware of one or two loads comprising a |
| 17 | comparable percentage of another Kentucky utility's total system demand. |
| 18 | |
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| 20 | Witness) David Crockett |
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| | Item 3 Page 1 of 1 |
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| | RESPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE | |
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| | COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007 CASE NO. 2007-00177 | |
| 1 | August 21, 2007 | |
| 2 | | |
| 3 | Item 4) Paragraph 7 on page 4 of the application states that, under their new | |
| 4 | service contracts, the aluminum smelters "will be able to terminate their contemplated | |
| 5 | new service contracts on relatively short notice." | |
| 6 | a) What amount of notice does Big Rivers anticipate will be included in the | |
| 7 | smelters' new service contracts? | |
| 8 | b) What does Big Rivers anticipate will be the term (length) of the smelters' | |
| 9 | new service contracts? | |
| 10 | c) Describe how the amount of notice anticipated for the new service | |
| 11 | contracts compares to the amount of notice included in the smelters' post-1998 service | |
| 12 | contracts with E.ON U.S. LLC and to the amount of notice contained in the smelters' pre- | - |
| 13 | 1998 contracts with Big Rivers. | |
| 14 | | |
| 15 | Response) 4a) Big Rivers anticipates that under the new retail electric service | |
| 16 | agreements being negotiated between the smelters and Kenergy Corp., which will be | |
| 17 | supported by wholesale power supply agreements between Big Rivers and Kenergy | |
| 18 | Corp., the smelters will have a right to unilaterally terminate their contracts on one year's | i |
| 19 | notice, with the termination allowed to occur no earlier than December 31, 2011. | |
| 20 | 4b) Big Rivers anticipates that the smelters' new retail electric service | |
| 21 | agreements will have terms ending December 31, 2023. | |
| 22 | 4c) The smelter retail electric service agreements entered into in 1982 had | |
| 23 | principal terms ending in 2010, and contained no right to unilateral termination by the | |
| 24 | smelters during the principal term. Termination by either party following any extension | |
| 25 | of the principal term required a five-year notice. | |
| 26 | The smelter retail electric service agreements entered into in 1998 have | |
| 27 | termination dates of 2010 and 2011, respectively, and contain no right to unilateral | |
| 28 | termination by the smelters. These retail agreements between the smelters and Kenergy | |
| 29 | Corp. are supported in part by wholesale agreements with LG&E Energy Marketing, Inc. | , |
| 30 | and in part by market contracts for the portion of the power supply obligation designated | |
| 31 | as "Tier 3 Energy ." | |
| 32 | | |
| 33 | Witness) Bill Blackburn | |
| | | |

3 Item 5) The request for the proposed transmission line appears to be almost totally
4 dependent on Big Rivers' need to export power in the event it loses the smelter loads.

a) Identify and describe any other reasons for Big Rivers' plans to construct
the proposed transmission line.

7 b) Describe the likelihood that either of the smelter loads might be lost under
8 the terms of their new service contracts.

9 c) Provide outage data from 1977 to the present for both smelter loads,
10 including the length of each outage period.

Response) 5a) Generally speaking, all transmission system improvements provide a
benefit in the day to day operation of the system. External influences on the system
power flows can be extreme. The proposed line would provide benefits during times of
high parallel flows through the Big Rivers system.

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The smelters expressly negotiated for the right to terminate their contracts 17 5b) on one year's notice after 2011. Big Rivers' assumption is that the smelters will not close 18 19 unless required to do so by the economies of their business. The economies of smelter 20 operation, particularly as they are affected by power rates, are publicly known. The 21 smelters filed an economic study in the Commission's Administrative Case No. P.S.C. 22 Case No. 2005-00090 that discusses that very issue. Because those economies are 23 affected by multiple factors, many of which are not in the control of the aluminum 24 companies themselves, there is no way to predict the likelihood of whether and when a 25 smelter will close. It is that unpredictability that produces the risk that must be mitigated 26 with this project.

27

5c) Big Rivers has compiled the available outage data for the smelter loads
from 1990 to the present. The data is provided in an attached table (Table 5c). As noted
in the outage data, in nearly every case, the outage affected only a portion of the smelter
load.

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Witness) David Crockett for parts (a) and (c); Bill Blackburn for part (b).

Item 5 Page 1 of 3

RESPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007

CASE NO. 2007-00177 August 21, 2007

Table 5c

| Year | Date | Smelter | Duration (minutes) | Load | Customer Caused |
|------|------------|---------|-----------------------|------------------------|--------------------|
| 2007 | | | L | None | |
| 2006 | 4/22/2006 | Alcan | 68 | Alcan Line 2 - 109MW | |
| | 4/22/2006 | Alcan | 80 | Alcan Line 3 - 117MW | |
| 2005 | 7/21/2005 | Century | 5 | Century Line 4 - 102MW | |
| 2004 | 3/1/2004 | Alcan | 4 | Alcan Line 2 - 111MW | |
| | 3/1/2004 | Alcan | 8 | Alcan Line 3 - 113MW | |
| | 3/15/2004 | Century | 28 | Century Line 0 - 5MW | |
| | 3/15/2004 | Century | 28 | Century Line 2 - 91MW | |
| 2003 | 9/8/2003 | Alcan | 39 | Alcan Line 2 - 111MW | X |
| 2002 | | | | None | |
| 2001 | 5/7/2001 | Alcan | 75 | Alcan Line 2 - 111MW | |
| | 5/8/2001 | Alcan | 1 | Alcan Line 2 - 112MW | |
| | 5/9/2001 | Alcan | 4 | Alcan Line 2 - 111MW | |
| | 7/22/2001 | Alcan | 15 | Alcan Line 3 - 120MW | |
| 2000 | 3/15/2000 | Century | 21 | Century Line 1 - 90MW | |
| | 3/15/2000 | Century | 1 | Century Line 2 - 88MW | |
| | 3/15/2000 | Century | 4 | Century Line 0 - 184MW | |
| | 9/11/2000 | Alcan | 102 | Alcan Standby -37MW | |
| | 9/11/2000 | Alcan | 70 | Alcan Line 2 - 110MW | |
| | 9/11/2000 | Alcan | 29 | Alcan Standby -37MW | |
| | 9/11/2000 | Alcan | 132 | Alcan Line 3 - 117MW | |
| | 9/11/2000 | Alcan | 17 | Alcan Line 1 - 5MW | |
| | 11/19/2000 | Alcan | 21 | Alcan Standby -80MW | X |
| 1999 | 1/25/1999 | Alcan | 8 | Alcan Line 3 - 115MW | |
| | 2/6/1999 | Century | 58 | Century Line 0 - 5MW | |
| | 2/6/1999 | Century | 58 | Century Line 1 - 95MW | |
| | 2/6/1999 | Century | 58 | Century Line 2 - 86MW | |
| | 2/6/1999 | Century | 58 | Century Line 3 - 85MW | |
| | 3/8/1999 | Century | 9 | Century Line 2 - 85MW | Х |
| | 3/8/1999 | Century | 60 | Century Line 0 - 90MW | Х |
| | 3/8/1999 | Century | 25 | Century Line 1 - 98MW | Х |
| | 3/8/1999 | Century | 255 | Century Line 0 - 90MW | X |
| | 11/19/1999 | Century | 4 | Century Line 1 - 95MW | |
| 1998 | 2/11/1998 | Alcan | 19 | Alcan Line 2 - 103MW | Х |
| | 5/28/1998 | Alcan | 3 | Alcan Line 2 - 103MW | |
| 1997 | | | | None | |
| 1996 | 4/29/1996 | Century | 15 | Century Line 3 - 85MW | |
| | 4/29/1996 | Century | 46 | Century Line 0 - 96MW | |
| | 4/29/1996 | Century | 25 | Century Line 1 - 89MW | |
| | 4/29/1996 | Century | 46 | Century Line 2 - 83MW | |

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| Year | Date | Smelter | Duration (minutes) | Load | Customer Caused |
|------|------------|---------|-----------------------|-----------------------|--------------------|
| | 5/25/1996 | Alcan | 151 | Alcan Line 1 - 5MW | X |
| | 5/26/1996 | Century | 0 | Century Line 1 - 95MW | X |
| | 8/7/1996 | Alcan | 97 | Alcan Line 3 - 103MW | |
| | 8/7/1996 | Alcan | 182 | Alcan Line 2 - 103MW | |
| | 8/7/1996 | Alcan | 27 | Alcan Line 1 - 6MW | |
| | 8/29/1996 | Alcan | 6 | Alcan Line 2 - 108MW | X |
| | 9/27/1996 | Alcan | 96 | Alcan Line 2 - 112MW | X |
| | 9/27/1996 | Alcan | 23 | Alcan Line 3 - 90MW | X |
| | 10/1/1996 | Alcan | 99 | Alcan Standby -96MW | Х |
| 1995 | 3/19/1995 | Alcan | 13 | Alcan Line 3 - 106MW | |
| | 3/28/1995 | Alcan | 54 | Alcan Line 3 - 106MW | Х |
| | 6/29/1995 | Alcan | 19 | Alcan Line 2 - 100MW | Х |
| 1994 | 1/17/1994 | Alcan | 98 | Alcan Line 1 - 112MW | |
| | 1/17/1994 | Alcan | 115 | Alcan Line 2 - 112MW | |
| | 1/17/1994 | Alcan | 235 | Alcan Line 3 - 112MW | |
| | 2/22/1994 | Century | 2 | Century Line 0 - 5MW | |
| | 4/13/1994 | Alcan | 10 | Alcan Line 2 - 92MW | |
| | 5/26/1994 | Alcan | 20 | Alcan Line 3 - 109MW | Х |
| | 8/15/1994 | Alcan | 10 | Alcan Line 3 - 113MW | Х |
| 1993 | 6/9/1993 | Century | 35 | Century Line 3 - 90MW | |
| | 12/27/1993 | Century | 18 | Century Line 2 - 92MW | |
| 1992 | 3/10/1992 | Century | 7 | Century Line 4 - 87MW | |
| | 3/16/1992 | Century | 4 | Century Line 3 - 86MW | |
| | 6/17/1992 | Alcan | 21 | Alcan Line 1 - 113MW | |
| | 7/20/1992 | Century | 25 | Century Line 4 - 94MW | X |
| 1991 | 3/22/1991 | Alcan | 6 | Alcan Line 2 - 104MW | |
| | 3/23/1991 | Alcan | 18 | Alcan Line 2 - 110MW | X |
| | 3/29/1991 | Alcan | 13 | Alcan Line 1 - 115MW | X |
| | 6/13/1991 | Alcan | 42 | Alcan Line 1 - 105MW | XX |
| | 7/24/1991 | Century | 12 | Century Line 4 - 90MW | 1000 |
| | 11/5/1991 | Century | 175 | Century Line 1 - 87MW | |
| | 11/5/1991 | Century | 5 | Century Line 2 - 11MW | |
| 1990 | 11/13/1990 | Century | 221 | Century Line 0 - 8MW | |
| | 11/13/1990 | Century | 34 | Century Line 2 - 95MW | |

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| | RES | PONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE | | | | |
|---------|---|---|--|--|--|--|
| | COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007 CASE NO. 2007-00177 | | | | | |
| 1 | | August 21, 2007 | | | | |
| 2 | | | | | | |
| 3 | Item 6) | Page 3 of Big Rivers' Bulk Transmission System Assessment | | | | |
| 4 | • | ") contains a list of six bullet points showing the required improvements to | | | | |
| 5 | - | ystem, based on the assessment. | | | | |
| 6 | a) | Provide a detailed explanation demonstrating the dates by which each of | | | | |
| 7 | | al improvements must be completed before the proposed 161 kV line is constructed. | | | | |
| 8 | | | | | | |
| 9 10 | b) improvement | Provide a detailed explanation of the reason(s) for each required | | | | |
| 10 | c) | Provide the estimated cost of each improvement. | | | | |
| 12 | c) d) | For each improvement other than the construction of the proposed 161 kV | | | | |
| 13 | , | line, would each of those improvements be made but for the proposed | | | | |
| 14 | | of the 161 kV transmission line? | | | | |
| 15 | combinaction (| | | | | |
| 16 | Response) | 6a) Big Rivers proposes to construct the first three bullet projects | | | | |
| 17 | concurrently | during the same eighteen month time period as the proposed 161kV line. | | | | |
| 18 | The fourth bu | allet project is being designed now and is set for construction during 2008. | | | | |
| 19 | The fifth and | sixth bullet projects are tentatively set for 2010 construction as needed. | | | | |
| 20 | | | | | | |
| 21 | | 6b) Big Rivers has included both the proposed 161kV line and its line | | | | |
| 22 | terminal addi | tion on the Wilson end in the first bullet project. The second bullet project | | | | |
| 23 | provides an u | pgrade of the existing transmission to the TVA Paradise interconnection | | | | |
| 24 | point, which | is consistent with the rating of the proposed new line design and meets or | | | | |
| 25 | exceeds the n | naximum power flows seen in the assessment studies. The third bullet | | | | |
| 26 | project is the | existing TVA Paradise line terminal rating upgrade to achieve the same | | | | |
| 27 | rating as the p | projects described above and completing the entire interconnection. The | | | | |
| 28 | fourth bullet | project is required to meet contingency power flows on the system with or | | | | |
| 29 | without the si | melter load losses. The fifth and sixth bullet projects are required to meet | | | | |
| 30 | the contingen | cy power flows on the system as shown in the assessment generally for the | | | | |
| 31 | loss of the Ce | entury smelter. | | | | |
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| | RESPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007 CASE NO. 2007-00177 |
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| 1 2 | August 21, 2007 |
| 3 | 6c) Big Rivers estimates the cost of the Wilson 161kV line terminal |
| 4 | addition included in the first bullet project to be \$1,700,000. The 8 mile Hardinsburg- |
| 5 | Paradise 161kV line upgrade cost estimate is \$2,100,000. The TVA Paradise 161kV line |
| 6 | terminal upgrade cost estimate is \$1,000,000. The Coleman-Newtonville 161kV line |
| 7 | upgrade cost estimate is \$1,000,000. The Coleman EHV-Coleman 161kV lines upgrade |
| 8 | cost estimate is \$600,000. The proposed 13 mile 161kV line cost estimate is \$4,700,000. |
| 9 | |
| 10 | 6d) Big Rivers would pursue construction of the first three bullet projects |
| 11 | only in conjunction with the proposed 161kV line construction. The last three bullet |
| 12 | projects would either be done or likely be done regardless of the status of the proposed |
| 13 | line construction as needed to meet the normal and contingency flow conditions shown in |
| 14 | the assessment. |
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| 16 | |
| 17 18 | Witness) David Crockett |
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| | Item 6 |
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| 1 | | E OF BIG RIVERS ELE STAFF'S INITIAL DA CASE NO. 2 August 2 | TA REQUEST OF A 2007-00177 | | | |
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| 2 | | | , | | | |
| 3 | Item 7) Provid | le actual coincident peak | demands versus proj | ected coincident peak | | |
| 4 | _ | ers' system, including th | | | | |
| 5 | loads, for the years 19 | 998 to 2007, with the an | nual load growth perc | entage identified. | | |
| 6 7 | D egnonge) The ex | tual and projected Big I | Divers' exetem park de | mands for each year | | |
| 8 | | 07 and the annual load g | | - | | |
| 9 | below. | | growin percentages at | e provided in the table | | |
| 10 | | | | | | |
| 11 | l I | Big Rivers Coincident Tr | ransmission Peak Den | nand | | |
| 12 | | - | | | | |
| 13 | | | | Annual | | |
| 14 | Year | Projected | Actual | Load Growth | | |
| 15 | 1998 | 1260 MW | 1237 MW | | | |
| 16 | 1999 | 1369 MW | 1336 MW | +8.0% | | |
| 17 | 2000 | 1403 MW | 1403 MW | +5.0% | | |
| 18 | 2001 | 1466 MW | 1430 MW | +1.9% | | |
| 19 | 2002 | 1475 MW | 1486 MW | +3.9% | | |
| 20 | 2003 | 1493 MW | 1476 MW | -0.7% | | |
| 21 | 2004 | 1504 MW | 1468 MW | -0.6% | | |
| 22 | 2005 | 1520 MW | 1513 MW | +3.1% | | |
| 23 | 2006 | 1541 MW | 1533 MW | +1.3% | | |
| 24 25 | 2007 | 1557 MW | 1554 MW | +1.4% | | |
| 25 | | | | | | |
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| 28 | | | | | | |
| 29 | Witness) David Crockett | | | | | |
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| | Item 7 Page 1 of 1 | | | | | |
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Item 8) Provide coincident peak demand load forecasts for Big Rivers' system, including the Alcan and Century Aluminum smelter loads, for the years 2007 to 2015, with the annual load growth percentage identified.

Response) The Big Rivers' system coincident transmission peak demand load
forecasts for the years 2007 to 2015 with the annual load growth percentages are
provided in the table below.

10 11 12

Big Rivers Coincident Transmission Peak Demand

| 1 | | | |
|----|------|----------|--------------------|
| 13 | Year | Forecast | Annual Load Growth |
| 14 | 2007 | 1557 MW | - |
| 15 | 2008 | 1568 MW | 0.7% |
| 16 | 2009 | 1579 MW | 0.7% |
| 17 | 2010 | 1590 MW | 0.7% |
| 18 | 2011 | 1601 MW | 0.7% |
| 19 | 2012 | 1612 MW | 0.7% |
| 20 | 2013 | 1624 MW | 0.7% |
| 21 | 2014 | 1635 MW | 0.7% |
| 22 | 2015 | 1647 MW | 0.7% |
| 00 | | | 1 |

23 24

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Witness) David Crockett

3 Item 9) Have the creditors of Big Rivers, including RUS, conditioned their
4 approval of the financing for the Unwind Transaction specifically on the Commission's
5 approval of the CPCN for the 161 kV transmission line?

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a) If so, what specific statements have Big Rivers' creditors made to Big
Rivers with regard to conditioning their approval of the financing for the Unwind
Transaction on the Commission's approval of the CPCN for the 161 kV line?

9 b) Provide copies of any written statements, if any, that the creditors have
10 made to Big Rivers regarding such conditional approval.

Response) None of Big Rivers' creditors have given their consent to the Unwind
Transaction as yet. Because Big Rivers has not completed all of its modeling, and has not
completed negotiations with the smelters, Big Rivers has not been able to furnish its
creditors with sufficient information to determine whether or not they will consent.

16 On a preliminary basis, Big Rivers' creditors have indicated concern over how 17 Big Rivers would meet its financial obligations in the event one or both smelters terminated their contracts. Those creditors have asked whether Big Rivers will have 18 19 sufficient transmission capability to deliver the smelter power to the market. Big Rivers 20 has uniformly told them that with the completion of an initial transmission project, Big 21 Rivers will have sufficient capacity to export the power being taken by either smelter, 22 and with the completion of the second transmission project will have sufficient capacity 23 to export the power being taken by both smelters. Big Rivers has further advised them 24 that the closing of the Unwind Transaction is conditioned upon the completion of the first 25 transmission project and having regulatory approval for the second transmission project. 26 Big Rivers has told them that the second transmission project can be constructed within 27 approximately 18 months after closing of the Unwind Transaction, and that the smelter 28 contracts will prohibit more than one smelter terminating its contract prior to 2011 unless 29 the second transmission project has been completed.

Big Rivers would point out that even if its creditors did not insist upon the
proposed transmission upgrades, Big Rivers, the smelters and its members would make
obtaining the CPCN in this case a condition to closing the Unwind Transaction. The
anticipated annual revenue from the smelters will be approximately \$400 million

| 2 | | | | | | |
|----|---|--|--|--|--|--|
| 3 | beginning 2012. Big Rivers and its members do not want to delay construction of the | | | | | |
| 4 | transmission upgrades covered by the CPCN until the upgrades are required, and then | | | | | |
| 5 | have Big Riv | have Big Rivers' ability to move the smelter load off-system for sale to be stalled by | | | | |
| 6 | unanticipated | delays caused by changes in laws, regulatory delays, unavailability of | | | | |
| 7 | contractors of | r materials, litigation, or any number of other matters. This puts the risk of | | | | |
| 8 | delays back o | on Big Rivers' members. | | | | |
| 9 | The s | melters also require approval of the transmission line as a condition to going | | | | |
| 10 | forward with | the Unwind Transaction. They will have substantial take-or-pay obligations | | | | |
| 11 | under their ne | ew agreements, and want Big Rivers to have the ability to sell any and all | | | | |
| 12 | power that th | e smelters do not take to mitigate the obligations of the smelters in the event | | | | |
| 13 | they have not | t terminated but are unable to take the power. | | | | |
| 14 | | | | | | |
| 15 | a) | See above. | | | | |
| 16 | | | | | | |
| 17 | b) | See above. | | | | |
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| 20 | Witness) | Bill Blackburn | | | | |
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| | RESPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE |
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| | COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007 CASE NO. 2007-00177 |
| 1 | August 21, 2007 |
| 2 | |
| 3 | Item 10) Could Big Rivers build the 161 kV transmission line without including the |
| 4 | construction cost for the line in its base rates? Explain the answer in detail. |
| 5 | |
| 6 | Response) Big Rivers could build the 161 kV transmission line without including the |
| 7 | construction cost in its current base rates. However, this non-ratebase expenditure could |
| 8 | have a detrimental affect on its members. Unlike some other one time expenditures, the |
| 9 | depreciation for construction cost for this 161kv line is used to calculate the Open Access |
| 10 11 | Transmission Tariff rate used to charge customers who use the transmission system. Member rates are bundled rates, consequently a higher transmission rate will have no |
| 11 | effect on member rates until or unless there is a general rate case involving transmission |
| 12 | costs. On the other hand, non-members would pay a higher transmission rate for use of |
| 14 | the Big Rivers transmission facilities. |
| 15 | While the projected construction cost is \$4.7 million, and would not have a major |
| 16 | affect on wholesale rates to its members, the detriment occurs thru non-members getting |
| 17 | a free ride at the detriment of members. |
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| 20 | Witness) Bill Blackburn |
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| | Item 10 |

| 1 | RESPONSE OF BIG RIVERS ELECTRIC CORPORATION TO THE COMMISSION STAFF'S INITIAL DATA REQUEST OF AUGUST 10, 2007 CASE NO. 2007-00177 |
|----------|---|
| 1 2 | August 21, 2007 |
| 3 | Item 11) If the Commission were to deny the present application for the 161 kV |
| 4 | transmission line, would Big Rivers be unable to go through with the contemplated |
| 5 | Unwind Transaction? |
| 6 | a) If Big Rivers is unable to go through the Unwind Transaction, would the |
| 7 | smelters be likely to cancel their service contracts with Big Rivers after 2011? If so, how |
| 8 | soon after 2011? |
| 9 | b) If the smelters were to cancel their service contracts with Big Rivers after |
| 10 | 2011 due to the Unwind Transaction not being completed, how would Big Rivers' non- |
| 11 | smelter customers be affected? |
| 12 | c) If the smelters were to cancel their service contracts with Big Rivers after |
| 13 | 2011 due to the Unwind Transaction not being completed, how would Big Rivers' |
| 14 | financial condition be affected? |
| 15 | |
| 16 | Response) If the Commission were to deny the present application for the 161 kW |
| 17 | transmission line, Big Rivers would not be able to go through with the Unwind |
| 18 | Transaction on the currently negotiated terms. |
| 19 | |
| 20 | 11a) Big Rivers has no contracts for wholesale service to the smelters that |
| 21 | could be cancelled after 2011. The smelters' retail electric supplier is Kenergy Corp. |
| 22 | Big Rivers has not been the principal wholesale supplier of wholesale power to Kenergy |
| 23 | Corp. for resale to the smelters since 1998. Big Rivers has periodically entered into |
| 24 | short-term "Tier 3 Energy " contracts with Kenergy Corp. for resale of relatively small |
| 25 | amounts of energy to the smelters, but all those contracts expire at the end of 2007. |
| 26 | 11b) See regroups to 11c). If the gradient appear gradiing operations, the affect |
| 27 28 | 11b) See response to 11a). If the smelters cease smelting operations, the effect on the non-smelter retail customers of Big Rivers' members will be felt through the |
| 28 29 | general impact on the economy of Western Kentucky. Kenergy Corp., the retail electric |
| 29 30 | supplier to the smelters, would also lose the net revenue it receives and retains on its sales |
| 31 | of power to the smelters. Also, please see the response to Item 2c). |
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| | Item 11 Page 1 of 2 |
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| 2 | August 21, 2007 |
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| 3 4 | 11c) See response to 11 a). If the smelters were to purchase no power from Big Rivers (through Kenergy Corp.) after 2011, whether the smelters continued smelting |
| 5 | operations or not would probably not adversely affect Big Rivers' financial condition. If |
| 6 | the adverse effects of the smelters closing on the economy of Big Rivers' service area |
| 7 | caused a reduction in Big Rivers' system load, Big Rivers could probably sell that |
| 8 | reduced amount in the wholesale power market. Big Rivers' member cooperatives would |
| 9 | certainly suffer financially from the economic effects of the smelters closing. Please see |
| 10 | the response to Item 2c). |
| 11 | |
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| 13 | Witness) Bill Blackburn. |
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