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October 20, 2015

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October 20, 2015

Via Federal Express

Jeff Derouen

Executive Director

Public Service Commission

att a Relation

211 Sower Boulevard, P.O. Box 615

Frankfort, Kentucky 40602-0615

RECEIVED

OCT 2 1 2015

PUBLIC SERVICE COMMISSION

Re: In the Matter of: an Examination by the Public Service Commission of the Environmental Surcharge Mechanism of Big Rivers Electric Corporation for the Two-Year Billing Period Ending July 31, 2015 and the Pass Through Mechanism of its Three Member Distribution Cooperatives,

PSC Case No. 2015-00320

Dear Mr. Derouen:

Enclosed for filing in the above referenced matter are an original and seven (7) copies of Big Rivers Electric Corporation's responses to the Public Service Commission Staff's First Request for Information and an original and seven (7) copies of the Direct Testimony of Nicholas R. Castlen in support of the reasonableness of the environmental surcharge mechanisms of Big Rivers Electric Corporation, Jackson Purchase Energy Corporation, Kenergy Corp., and Meade County Rural Electric Cooperative Corporation. I certify that on this date, copies of this letter, the testimony, and the responses were served on all parties of record by first-class mail.

Sincerely,

Tyson Kamuf

TAK/lm Enclosures

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cc:

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ORIGINAL

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

AN EXAMINATION BY THE PUBLIC SERVICE
COMMISSION OF THE ENVIRONMENTAL
SURCHARGE MECHANISM OF BIG RIVERS
ELECTRIC CORPORATION FOR THE TWO-YEAR
BILLING PERIOD ENDING JULY 31, 2015
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION
COOPERATIVES

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PUBLIC SERVICE
COMMISSION

CASE NO.
2015-00320

DIRECT TESTIMONY

OF

NICHOLAS R. (NICK) CASTLEN

ON BEHALF OF

BIG RIVERS ELECTRIC CORPORATION,
JACKSON PURCHASE ENERGY CORPORATION,
KENERGY CORP., AND
MEADE COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION

FILED: October 21, 2015

Case No. 2015-00320 Witness: Nicholas R. Castlen Page 1 of 9

1 2 3 4		DIRECT TESTIMONY OF NICHOLAS R. CASTLEN
5	Q.	Please state your name, business address, and position.
6	A.	My name is Nicholas R. Castlen, and my business address is Big Rivers
7		Electric Corporation ("Big Rivers"), 201 Third Street, Henderson, Kentucky,
8		42420. I am the Manager of Finance at Big Rivers.
9	Q.	Please summarize your education and professional experience.
10	A.	I received a Bachelor of Science in Accounting from the University of
11		Kentucky in 2006 and a Master of Science in Accounting from the University
12		of Kentucky in 2007. I became a Certified Public Accountant ("CPA") in the
13		state of Kentucky in 2007.
14		Before assuming my current position as Manager of Finance in July
15		2013, I was a Staff Accountant at Big Rivers primarily responsible for the
16		accounting and administration of the Company's long- and short-term debt
17		obligations and various rate mechanisms. Prior to joining Big Rivers, I was
18		a Revenue Accounting Analyst at LG&E and KU Energy LLC from December
19		2009 to April 2012, where I was responsible for various financial accounting,
20		reporting, and analysis roles for retail and wholesale, electric and gas utility
21		revenues. From January 2006 to December 2009, I was employed by
22		PricewaterhouseCoopers LLP as an Audit and Assurance Associate.
23		
24		

- 1 Q. Please summarize your duties at Big Rivers.
- 2 A. As the Manager of Finance, my primary responsibilities involve providing
- 3 direction and oversight to corporate accounting and finance activities related
- 4 to the Company's financial reporting requirements, debt administration,
- 5 financial forecasting, cash management, taxes (income, property, sales, and
- 6 use), and fixed assets. Additionally, I am responsible for Big Rivers' following
- 7 rate mechanisms and the related filings with the Kentucky Public Service
- 8 Commission ("Commission"): Fuel Adjustment Clause ("FAC"),
- 9 Environmental Surcharge ("ES").
- 10 Q. Have you previously testified before the Commission?
- 11 A. Yes. I've provided testimony and responses to data requests in Case Nos.
- 12 2012-00534, 2013-00139, 2013-00347, 2014-00097, 2014-00323, and 2015-
- 13 00124 (reviews of Big Rivers' ES mechanism). I have also served as a
- 14 witness, providing testimony and/or responses to data requests, in Case Nos.
- 15 2012-00555, 2013-00266, 2013-00449, 2014-00230, 2014-00455, and 2015-
- 16 00237 (reviews of Big Rivers' FAC mechanism).
- 17 Q. On whose behalf are you filing this testimony?
- 18 A. I am filing this testimony on behalf of Big Rivers and its three member
- 19 distribution cooperatives, which are Jackson Purchase Energy Corporation
- 20 ("JPEC"), Kenergy Corp. ("Kenergy"), and Meade County Rural Electric
- Cooperative Corporation ("Meade County") (collectively, "the Members").
- 22 Q. What is the purpose of your testimony in this proceeding?

A.	The purpose of my testimony is to describe the application of Big Rivers' ES
	mechanism as billed from August 1, 2013, through July 31, 2015, (which
	corresponds to the expense months of June 2013 through May 2015).
	Additionally, I have coordinated with Big Rivers' Members in the preparation
	of this testimony and prepared responses to the Commission Staff's First
	Request for Information ("Commission's Initial Requests") that accompany
	this testimony.

A.

This testimony also includes information the Members have provided me in support of their pass-through mechanisms that are also under review in this proceeding and that the Members use to pass through, to their retail members, the costs Big Rivers charges to them under Big Rivers' ES mechanism. The review period for the Members' pass-through mechanisms that corresponds to the August 1, 2013, through July 31, 2015, billing period for Big Rivers' environmental surcharge mechanism are the billing months of September 2013 through August 2015 for non-dedicated delivery point customers (i.e., there is a one-month lag for non-dedicated delivery point customers), and August 2013 through July 2015 for dedicated delivery point customers (i.e., there is no billing lag for dedicated delivery point customers).

Q. Please provide a brief overview of Big Rivers' ES mechanism.

Big Rivers' ES mechanism was approved by Order of the Commission dated June 25, 2008, in Case No. 2007-00460, which was part of the transaction that unwound Big Rivers' 1998 lease with E.ON U.S. LLC and its affiliates (the "Unwind Transaction") that was approved by Order of the Commission dated March 6, 2009, in Case No. 2007-00455. Big Rivers' ES went into effect immediately following the July 16, 2009, closing of the Unwind Transaction for service commencing July 17, 2009.

Big Rivers' environmental compliance plan approved by the Commission in Case No. 2007-00460 (the "2007 Plan") consists of programs, and the related costs, for controlling sulfur dioxide ("SO₂"), nitrogen oxide ("NO_x"), and sulfur trioxide ("SO₃"). The environmental compliance costs which Big Rivers may recover under KRS 278.183, and its 2007 Plan, include the costs of reagents, sludge and ash disposal, and emission allowances.

For the SO₂ program, Big Rivers recovers through its ES mechanism the costs of reagents, the costs for the disposal of coal combustion byproducts (fly ash, bottom ash, and scrubber sludge), and the costs of purchasing SO₂ emission allowances. For the NO_X program, Big Rivers recovers the costs of reagents and the costs of purchasing additional NO_X emission allowances as needed. For the SO₃ program, Big Rivers recovers reagent costs. Due to generating unit design differences and Big Rivers' compliance plan, each of Big Rivers' generating units utilizes a different combination of reagents. Depending on the unit facilities, various reagents are used to treat the flue gas, thereby removing the three targeted emissions. The SO₂ reagents are comprised of emulsified sulfur, lime, fixation lime, limestone, dibasic acid, and sodium bisulfite. The NO_X reagents are comprised of anhydrous

I	ammonia and emulsified sulfur. The reagent used for SO ₃ is hydrated lime.
2	Note that the 2007 Plan included only operating and maintenance ("O&M")
3	costs.
1	In its Order dated October 1, 2012, in Case No. 2012-00063, the

In its Order dated October 1, 2012, in Case No. 2012-00063, the Commission approved certain additions to Big Rivers' 2007 Plan relating to the Mercury and Air Toxics Standards ("MATS") rule. The additions (the "2012 Plan") included installing activated carbon injection and dry sorbent injection systems and emission control monitors at Big Rivers' Coleman, Wilson, and Green generating stations; and installing emission control monitors at Henderson Municipal Power & Light's Station Two generation station. The 2012 Plan includes both the capital and O&M costs associated with the projects, as well as recovery of Big Rivers' actual costs incurred in Case No. 2012-00063 (amortized over three years).

Please note that as a result of the terminations of retail power contracts by two aluminum smelters, Big Rivers idled its Coleman generation station in May 2014. As a result, Big Rivers does not plan to proceed with the MATS projects at the Coleman station at this time. However, Big Rivers will complete the MATS projects at Coleman prior to it returning to service.

Big Rivers' ES mechanism allows Big Rivers to recover costs related to the 2007 Plan (which only includes O&M costs) and the 2012 Plan (which includes both O&M costs and capital costs), less proceeds from by-product and emission allowance sales, plus or minus an ongoing cumulative under-

- 1 or over-recovery adjustment.
- 2 Q. Please provide a brief overview of the Members' pass-through
- 3 mechanisms.
- 4 A. The Members' pass-through mechanisms allow each Member to bill its retail
- 5 customers for the portion of Big Rivers' environmental surcharge that Big
- 6 Rivers bills each Member. JPEC's pass-through mechanism was approved
- 7 by the Commission in Case No. 2008-00010; Kenergy's mechanism was
- approved by the Commission in Case No. 2008-00009; and Meade County's
- 9 was approved by the Commission in Case No. 2007-00470.
- 10 Q. Have there been any changes to Big Rivers' environmental
- surcharge mechanism since the prior review?
- 12 A. No.
- 13 Q. Has Big Rivers sold any SO₂ or NO_x allowances during the expense
- 14 months corresponding to the billing periods under review in this
- 15 case?
- 16 A. Yes. While Big Rivers' Coleman generation units were designated as System
- 17 Support Resource ("SSR") units within MISO, Big Rivers sold SO₂ and NO_x
- allowances from its inventory to cover the allowances used by its Coleman
- 19 generation units. During the period under review, the Coleman generation
- 20 units were designated as SSR units for the expense months of August 2013
- 21 through April 2014, during which time Big Rivers charged market prices for
- 22 the allowances used at Coleman under the SSR agreement during those

- 1 months. The cost of the allowances sold during those months were reported
- 2 as sales in the monthly ES filings on ES Forms 2.31 (SO₂ allowances), 2.32
- 3 (NOx Ozone Season allowances), and 2.33 (NOx Annual Allowances).
- 4 beginning with the ES filing for the October 2013 expense month (which
- 5 included the sales from August 2013 through October 2013). The net
- 6 proceeds from the sales of those allowances were included in the monthly ES
- 7 filings as a reduction to total recoverable environmental compliance expenses
- 8 (E(m)) on ES Form 1.10 for the respective expense months, with the exception
- 9 of sales made during August 2013 and September 2013, which were included
- in the ES filing for the October 2013 expense month.
- 11 Q. Has Big Rivers' environmental surcharge mechanism been
- accurately compiled, and is it operating as intended?
- 13 A. Yes.
- 14 Q. Have the Members' pass-through mechanisms been accurately
- compiled, and are they operating as intended?
- 16 A. The Members believe their pass-through mechanisms have been accurately
- 17 compiled and are operating as intended.
- 18 Q. Are the amounts charged under Big Rivers' environmental
- surcharge mechanism during the review period just and reasonable?
- 20 A. Yes.
- 21 Q. Are the amounts charged under the Members' pass-through
- 22 mechanisms during the review period just and reasonable?

- 1 A. The Members believe the amounts charged under their pass-through
- 2 mechanisms are just and reasonable.
- 3 Q. Do Big Rivers and its Members have additional over- or under-
- 4 recovery amounts they believe need to be recognized?
- 5 A. No. Big Rivers and its Members are not requesting any additional over- or
- 6 under-recovery amounts. The normal over/under recovery carry-forward
- 7 element of Big Rivers' environmental surcharge mechanism is operating as
- 8 intended.
- 9 Q. Did Big Rivers recover any capital costs through its ES mechanism
- during the period under review?
- 11 A. Yes. Big Rivers recovered capital costs associated with its 2012 Plan projects
- during the period under review through the inclusion of Construction Work-
- in-Progress balances for its 2012 Plan projects in the calculation of
- environmental compliance rate base on ES Form 2.00 in its monthly ES
- 15 filings.
- 16 Q. What Base Environmental Surcharge Factor ("BESF") cost did Big
- 17 Rivers use during the review period?
- 18 A. Big Rivers had no environmental surcharge related costs in its base rates
- 19 during the review period.
- 20 Q. Does this conclude your testimony?
- 21 A. Yes, it does.

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS ELECTRIC CORPORATION
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2015-00320

VERIFICATION

I, Nicholas R. (Nick) Castlen, verify, state, and affirm that I prepared or supervised the preparation of the Direct Testimony filed with this Verification, and that Direct Testimony is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Nicholas R. (Nick) Castlen

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

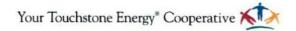
SUBSCRIBED AND SWORN TO before me by Nicholas R. (Nick) Castlen on this the $\underline{/3}$ day of October, 2015.

Notary Public, Kentucky State at Large
My Commission Expires

Notary Public, Kentucky State-At-Large My Commission Expires: July 3, 2018 ID 513528

ORIGINAL





COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

AN EXAMINATION BY THE PUBLIC SERVICE

COMMISSION OF THE ENVIRONMENTAL

SURCHARGE MECHANISM OF BIG RIVERS

ELECTRIC CORPORATION FOR THE TWO-YEAR

BILLING PERIOD ENDING JULY 31, 2015

AND THE PASS THROUGH MECHANISM

OF ITS THREE MEMBER DISTRIBUTION

COOPERATIVES

Case No. 2015-00320

Responses to Commission Staff's First Request for Information dated September 28, 2015

FILED: October 21, 2015

ORIGINAL

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS ELECTRIC CORPORATION FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015 AND THE PASS THROUGH MECHANISM OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES CASE NO. 2015-00320 OCT 2 1 2045

VERIFICATION

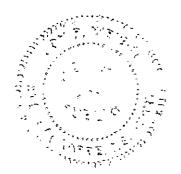
PUBLIC SERVICE COMMISSION

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

Lawrence V. (Larry) Baronowsky

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Lawrence V. (Larry) Baronowsky on this the <u>/3</u> day of October, 2015.



Notary Public, Kentucky State at Large

My Commission Expires

Notary Public, Kentucky State-At-Large My Commission Expires: July 3, 2018 ID 513528

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS ELECTRIC CORPORATION FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015 AND THE PASS THROUGH MECHANISM OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES CASE NO. 2015-00320

VERIFICATION

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

Nicholas R. (Nick) Castlen

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Nicholas R. (Nick) Castlen on this the <u>/3</u> day of October, 2015.



Notary Public, Kentucky State at Large

My Commission Expires

Notary Public, Kentucky State-At-Large My Commission Expires: July 3, 2018 ID 513528

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2015-00320
RECEIVED

Response to Commission Staff's First Request for Information dated September 28, 2015

OCT 2 1 2015

PUBLIC SERVICE COMMISSION

October 21, 2015

1 Item 1) Prepare a summary schedule showing the calculation of E(m)and the surcharge factor for the expense months covered by the billing 2 3 periods under review. Form 1.1 can be used as a model for this summary. 4 Include the expense months for the two expense months subsequent to the billing period in order to show the over- and under-recovery adjustments 5 for the months included for the billing period. Include a calculation of 6 any additional over- or under-recovery amount Big Rivers believes needs 7 8 to be recognized for the two-year review. Include all supporting 9 calculations and documentation for the additional over- or under-10 recovery. 11 Response) Please see the attached schedule, in the format of Form 1.10, 12 covering each of the expense months from June 2013 through July 2015 (i.e., the 13 14 expense months covered by the billing periods under review plus the two expense months subsequent to the billing period). No additional over- or under-recovery is 15 16 sought by Big Rivers Electric Corporation. 17 18 19 Witness) Nicholas R. Castlen

20

Case No. 2015-00320 Response to Staff Item 1 Witness: Nicholas R. Castlen Page 1 of 1

Calculation of Total E(m) and Calculation of Jurisdictional Environmental Surcharge Billing Factor

			-	· •			
1	Calculation of Total E(m)						-
2	E(m) =OE - BAS + RORB, where						
3	OE = Pollution Control Operating Expenses						
4	BAS = Total Proceeds from By-Product and Allowance Sales						
5	$RORB = [(RB/12) \times (RORORB)]$						
6				June 2013			July 2013
7	OE .	=	\$	2,303,304	=	\$	2,633,009
8	BAS	=	\$	-,,,,,,,,	=	\$	_,000,000
9	RORB	=	\$		=	\$	
10	E(m)	=	\$	2,303,304	=	\$	2,633,009
11			_				
12	Calculation of Jurisdictional Environmental Surcharge Billing	Fact	or				
13	Member System Allocation Ratio for the Month (Form 3.00)	=		90.400755%	Ξ		84.093298%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	2,082,204	=	\$	2,214,184
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	15,011	=	\$	(28,399)
16	Prior Period Adjustment	=	\$	•	=	\$	` . 1
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	2,097,215	=	\$	2,185,785
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with						
	the Current Expense Month (Form 3.00)	=	\$	39,960,440	=	\$	39,809,898
19	CESF: E(m) / R(m); as a % of Revenue	=		5.248228%	=		5.490557%
20				<u> </u>			
21	Calculation of Total E(m)						
22	E(m) =OE - BAS + RORB, where						
23	OE = Pollution Control Operating Expenses						
24	BAS = Total Proceeds from By-Product and Allowance Sales						
25	$RORB = [(RB/12) \times (RORORB)]$						
26				August 2013		Se	ptember 2013
27	OE	=	\$	2,400,132	=	\$	2,374,614
28	BAS	=	\$	•	=	\$	-
29	RORB	=	\$	-	=	\$	-
30	E(m)	=	\$	2,400,132	=	\$	2,374,614
31							
32	Calculation of Jurisdictional Environmental Surcharge Billing	Fact	or				
33	Member System Allocation Ratio for the Month (Form 3.00)	=		81.619269%	=		78.289691%
34	Subtotal $E(m) = Subtotal E(m) \times Member System Allocation Ratio$	=	\$	1,958,970	=	\$	1,859,078
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	(77,358)	=	\$	135,278
36	Prior Period Adjustment	=	\$	•	=	\$	- [
37	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,881,612	=	\$	1,994,356
	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with						
38	المراجع						
38 39	the Current Expense Month (Form 3.00) CESF: E(m) / R(m); as a % of Revenue	=	\$	39,416,23 7 4.773698%		\$	38,778,903 5.142889%

Calculation of Total E(m) and Calculation of Jurisdictional Environmental Surcharge Billing Factor

	(C-11-4)	-				
1	Calculation of Total E(m)					
2	E(m) =OE - BAS + RORB, where					
3	OE = Pollution Control Operating Expenses					
4	BAS = Total Proceeds from By-Product and Allowance Sales					
5	$RORB = [(RB/12) \times (RORORB)]$,		
6				October 2013		November 2013
7	OE	=	\$	-,	=	\$ 1,821,722
8	BAS	=	\$	62,121		\$ 15,457
9	RORB	=	\$	5,737		-,
10	E(m)	=	\$	2,733,031	=	\$ 1,811,998
11						
12	Calculation of Jurisdictional Environmental Surcharge Billing l	Fact	or			
13	Member System Allocation Ratio for the Month (Form 3.00)	=		72.526908%	=	84.883462%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,982,183	=	\$ 1,538,087
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	411,297	=	\$ 681,765
16	Prior Period Adjustment	=	\$	-	=	\$ -
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	2,393,480	=	S 2,219,852
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with					
10	the Current Expense Month (Form 3.00)	=	\$	37,814,766	=	\$ 36,899,327
19	CESF: E(m) / R(m); as a % of Revenue	=		6.329485%	=	6.015969%
20						
21	Calculation of Total E(m)					
22	E(m) =OE - BAS + RORB, where					
23	OE = Pollution Control Operating Expenses					
24	BAS = Total Proceeds from By-Product and Allowance Sales					
25	$RORB = [(RB/12) \times (RORORB)]$					
26]	December 2013		January 2014
27	OE					DOTH TOTAL TOTAL
	OE .	=	\$	2,349,391	=	\$ 2,447,581
28	BAS	=	\$			\$ 2,447,581
	· =			2,349,391	=	\$ 2,447,581
28	BAS	=	\$	2,349,391 6,977	= =	\$ 2,447,581 \$ 21,598 \$ 10,544
28 29	BAS RORB	=	\$	2,349,391 6,977 9,563	= =	\$ 2,447,581 \$ 21,598 \$ 10,544
28 29 30	BAS RORB	= =	\$ \$	2,349,391 6,977 9,563	= =	\$ 2,447,581 \$ 21,598 \$ 10,544
28 29 30 31	BAS RORB E(m) Calculation of Jurisdictional Environmental Surcharge Billing I Member System Allocation Ratio for the Month (Form 3.00)	= =	\$ \$	2,349,391 6,977 9,563	=	\$ 2,447,581 \$ 21,598 \$ 10,544
28 29 30 31 32	BAS RORB E(m) Calculation of Jurisdictional Environmental Surcharge Billing I	= = = Fact	\$ \$	2,349,391 6,977 9,563 2,351,977	= = = = = = = = = = = = = = = = = = = =	\$ 2,447,581 \$ 21,598 \$ 10,544 \$ 2,436,527
28 29 30 31 32 33	BAS RORB E(m) Calculation of Jurisdictional Environmental Surcharge Billing I Member System Allocation Ratio for the Month (Form 3.00)	= = = Eact	\$ \$ \$ or	2,349,391 6,977 9,563 2,351,977	=	\$ 2,447,581 \$ 21,598 \$ 10,544 \$ 2,436,527 76.155449% \$ 1,855,548
28 29 30 31 32 33 34	BAS RORB E(m) Calculation of Jurisdictional Environmental Surcharge Billing I Member System Allocation Ratio for the Month (Form 3.00) Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	= = = Eact = =	\$ \$ \$ or	2,349,391 6,977 9,563 2,351,977 78.391089% 1,843,740 534,278	=	\$ 2,447,581 \$ 21,598 \$ 10,544 \$ 2,436,527 76.155449% \$ 1,855,548
28 29 30 31 32 33 34 35	BAS RORB E(m) Calculation of Jurisdictional Environmental Surcharge Billing I Member System Allocation Ratio for the Month (Form 3.00) Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	= = = = = = =	\$ \$ or \$	2,349,391 6,977 9,563 2,351,977 78.391089% 1,843,740 534,278	= = = = = = = = = = = = = = = = = = = =	\$ 2,447,581 \$ 21,598 \$ 10,544 \$ 2,436,527 76.155449% \$ 1,855,548 \$ 287,040
28 29 30 31 32 33 34 35 36 37	BAS RORB E(m) Calculation of Jurisdictional Environmental Surcharge Billing I Member System Allocation Ratio for the Month (Form 3.00) Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio Adjustment for (Over)/Under Recovery, as applicable (Form 2.00) Prior Period Adjustment	= = = = = = = =	\$ \$ or \$ \$	2,349,391 6,977 9,563 2,351,977 78.391089% 1,843,740 534,278	= = = = = = = = = = = = = = = = = = = =	\$ 2,447,581 \$ 21,598 \$ 10,544 \$ 2,436,527 76.155449% \$ 1,855,548 \$ 287,040 \$ -
28 29 30 31 32 33 34 35 36	BAS RORB E(m) Calculation of Jurisdictional Environmental Surcharge Billing I Member System Allocation Ratio for the Month (Form 3.00) Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio Adjustment for (Over)/Under Recovery, as applicable (Form 2.00) Prior Period Adjustment E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	= = = = = = = =	\$ \$ or \$ \$	2,349,391 6,977 9,563 2,351,977 78.391089% 1,843,740 534,278 2,378,018		\$ 2,447,581 \$ 21,598 \$ 10,544 \$ 2,436,527 76.155449% \$ 1,855,548 \$ 287,040 \$ -

Calculation of Total E(m) and Calculation of Jurisdictional Environmental Surcharge Billing Factor

				_		
1	Calculation of Total E(m)				_	
2	E(m) =OE - BAS + RORB, where					
3	OE = Pollution Control Operating Expenses					
4	BAS = Total Proceeds from By-Product and Allowance Sales					
5	$RORB = [(RB/12) \times (RORORB)]$					
6	, , , , , , , , , , , , , , , , , , , ,		1	February 2014		March 2014
7	OE	=	\$	2,142,172 =	\$	1,935,901
8	BAS	=	\$	20,042 =		22,498
9	RORB	=	\$	15,268 =		19,953
10	E(m)	=	\$	2,137,398 =	-	1,933,356
11						<u> </u>
12	Calculation of Jurisdictional Environmental Surcharge Billing	Fact	or			
13	Member System Allocation Ratio for the Month (Form 3.00)	=		46.835735% =		43.616093%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,001,066 =	\$	843,254
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	47,644 =		914,712
16	Prior Period Adjustment	=	\$	´- =	\$	•
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,048,710 =	\$	1,757,966
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with					,,,,
10	the Current Expense Month (Form 3.00)	=	\$	34,279,069 =	\$	32,450,204
19	CESF: E(m) / R(m); as a % of Revenue	=		3.059330% =		5.417427%
20						-
21	Calculation of Total E(m)			<u>.</u>		
22	E(m) =OE - BAS + RORB, where					
23	OE = Pollution Control Operating Expenses					
24	BAS = Total Proceeds from By-Product and Allowance Sales					
25	$RORB = [(RB/12) \times (RORORB)]$					
26				April 2014		May 2014
27	OE	=	\$	2,256,112 =	\$	1,672,442
28	BAS	=	\$	25,433 =	\$	
29	RORB	=	\$	25,051 =	\$	26,173
30	<u>E(m)</u>	_ =	\$	2,255,730 =	\$	1,698,615
31						
32	Calculation of Jurisdictional Environmental Surcharge Billing I	act	or			
33	Member System Allocation Ratio for the Month (Form 3.00)	=		38.809546% =		56.070358%
34	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	875,439 =	\$	952,420
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	458,377 =	\$	991,229
36	Prior Period Adjustment	=	\$. =	\$	-
37	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,333,816 =	\$	1,943,649
38	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with					j
	the Current Expense Month (Form 3.00)	=	\$	30,521,846 =	\$	28,513,247
39	CESF: E(m) / R(m); as a % of Revenue			4.370037% =		6.816653%

Calculation of Total E(m) and Calculation of Jurisdictional Environmental Surcharge Billing Factor

				-J			
1	Calculation of Total E(m)					_	
2	E(m) =OE - BAS + RORB, where						
3	OE = Pollution Control Operating Expenses						
4	BAS = Total Proceeds from By-Product and Allowance Sales						
5	RORB = $[(RB/12) \times (RORORB)]$						
6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			June 2014			July 2014
7	OE	=	\$		=	ş	2,461,632
8	BAS	=	\$	-,,	=	Š	-, 101,001
9	RORB	=	\$	33,571	=	\$	41,335
10	E(m)	=	\$	1,621,189		•	2,502,967
11			·	_,,	_		
12	Calculation of Jurisdictional Environmental Surcharge Billing 1	Fact	or				
13	Member System Allocation Ratio for the Month (Form 3.00)	=		65.017814%	=		50.273862%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,054,062	=	\$	1,258,338
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	653,306		\$	755,509
16	Prior Period Adjustment	=	\$	- -	=	\$	
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,707,368	=	\$	2,013,847
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with						
	the Current Expense Month (Form 3.00)	=	\$	26,592,908	=	\$	24,683,935
19	CESF: E(m) / R(m); as a % of Revenue	_=		6.420388%	=		8.158533%
20							
21	Calculation of Total E(m)			_			
22	E(m) =OE - BAS + RORB, where						
23	OE = Pollution Control Operating Expenses						ŀ
24	BAS = Total Proceeds from By-Product and Allowance Sales						
25	$RORB = [(RB/12) \times (RORORB)]$						
26				August 2014		Se	ptember 2014
27	OE	=	\$	2,602,415	=	\$	2,310,596
28	BAS	=	\$	-	=	\$	-
29	RORB	=	\$	54,898	=	\$	50,827
30	<u>E(m)</u>	=	\$	2,657,313	=	\$	2,361,423
31							
32	Calculation of Jurisdictional Environmental Surcharge Billing I	act	or				
33	Member System Allocation Ratio for the Month (Form 3.00)	=		49.453533%	=		46.476780%
34	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,314,135	=	\$	1,097,513
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	517,879		\$	478,222
36	Prior Period Adjustment	=	\$	•	=	\$	-
37	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,832,014	=	\$	1,575,735
38	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with			• •			, , , _, ,
30	the Current Expense Month (Form 3.00)	=	\$	23,140,289	=	\$	21,944,833
39	CESF: E(m) / R(m); as a % of Revenue	=		7.916988%	=		7.180437%

Calculation of Total E(m) and Calculation of Jurisdictional Environmental Surcharge Billing Factor

1	Calculation of Total E(m)				_		
2	E(m) =OE - BAS + RORB, where						
3	OE = Pollution Control Operating Expenses						
4	BAS = Total Proceeds from By-Product and Allowance Sales						
5	$RORB = [(RB/12) \times (RORORB)]$						
6				October 2014		No	vember 2014
7	OE	=	\$	2,088,453	=	8	2,163,019
8	BAS	=	\$	•	=	\$	-,,
9	RORB	=	\$	63,193	=	,	67,305
10	E(m)	=	\$	2,151,646			2,230,324
11	· · · · · · · · · · · · · · · · · · ·			, , , , , ,			
12	Calculation of Jurisdictional Environmental Surcharge Billing	Fact	tor				
13	Member System Allocation Ratio for the Month (Form 3.00)	=		44.233502%	=		43.654659%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	951,748		s	973,640
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	529,285		Š	556,064
16	Prior Period Adjustment	=	Š	•	=	\$	-
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	Š	1,481,033	=		1,529,704
10	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with		•	2, 202,000		Ψ	1,020,103
18	the Current Expense Month (Form 3.00)	=	s	21,001,353	=	8	20,006,727
19	CESF: E(m) / R(m); as a % of Revenue	=	•	7.052084%		•	7.6459489
20			_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1.0100107
21	Calculation of Total E(m)						
22	E(m) =OE - BAS + RORB, where						
23	OE = Pollution Control Operating Expenses						
24	BAS = Total Proceeds from By-Product and Allowance Sales						
25	RORB = $[(RB/12) \times (RORORB)]$						
26	(,====,=,=,(=====,,1			December 2014		.To	nuary 2015
27	OE	=	\$		=	\$	2,124,999
28	BAS	=	\$		_	S	#, 124, 555
29	RORB	=	\$	78,018	=	\$	82,319
30	E(m)	=	ŝ	2,372,972			2,207,318
31				2,0.2,0.2			2,201,010
32	Calculation of Jurisdictional Environmental Surcharge Billing 1	Ract	or				
33	Member System Allocation Ratio for the Month (Form 3.00)	=		49.170108%	_		53,583676%
34	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,166,793		s	1,182,762
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	251,279	=	\$	168,549
36	Prior Period Adjustment	=	\$	201,213	=	\$	100,048
37	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,418,072	=	φ \$	1,351,311
	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with	_	Ψ	1,710,012	_	Ψ	1,001,011
38	the Current Expense Month (Form 3.00)	=	s	18,812,918	=	S	17,576,471
	· · · · · · · · · · · · · · · · · · ·		Φ	10,014,916		Φ	11,010,411
39	CESF: E(m) / R(m); as a % of Revenue	=		7.537757%	_		7.688182%

Calculation of Total E(m) and Calculation of Jurisdictional Environmental Surcharge Billing Factor

1 Calculation 2 E(m) = OE - BA 3 OE	of Total E(m)						
_ _(_,							
0 1 00	= Pollution Control Operating Expenses						
4 BAS	= Total Proceeds from By-Product and Allowance Sales						
5 RORB							
6	= [(RB/12) x (RORORB)]		_				
7 OE				February 2015		_	March 2015
8 BAS		=	\$	1,924,323	=	\$	1,656,912
		=	\$	•	=	\$	•
9 RORB		=	\$	88,150		\$	88,351
10 E(m)		_=	\$	2,012,473	=	\$	1,745,263
11							
12 Calculation	of Jurisdictional Environmental Surcharge Billing	Fact	or				
13 Member System	n Allocation Ratio for the Month (Form 3.00)	=		50.018872%	=		51.004944%
14 Subtotal E(m)	Subtotal E(m) x Member System Allocation Ratio	=	\$	1,006,616	=	\$	890,170
15 Adjustment for	(Over)/Under Recovery, as applicable (Form 2.00)	=	S	(143,233)	=	\$	(230, 172)
16 Prior Period Ad		=	ŝ	•	=	\$	(===,==,=,=,=,
17 $E(m) = Subtota$	l E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	Š	863,383	=	š	659,998
R(m) = Average	Monthly Member System Revenue for the 12 Months Ending with		٠	272,000		*	333,000
the Current Ex	pense Month (Form 3.00)	=	\$	17,581,663	=	8	17,494,704
	(m); as a % of Revenue	=	•	4.910702%		٠	3.772559%
20		-		1.01010270	_		0.17200370
21 Calculation	of Total E(m)						
	S + RORB, where						
23 CE OE	= Pollution Control Operating Expenses						
24 BAS	= Total Proceeds from By-Product and Allowance Sales						
25 RORB							
26 RORB	$= [(RB/12) \times (RORORB)]$						
·				April 2015			May 2015
L '		=	\$	1,200,606		\$	2,773,365
28 BAS		=	\$	•	=	\$	-
29 RORB		=	\$,	=	\$	93,179
30 E(m)		=	\$	1,291,854	=	\$	2,866 <u>,</u> 544
31							
32 Calculation	of Jurisdictional Environmental Surcharge Billing	Fact	or				
33 Member System	Allocation Ratio for the Month (Form 3.00)	=		54.583407%	=		45.997345%
34 Subtotal E(m) =	Subtotal E(m) x Member System Allocation Ratio	=	\$	705,138	=	\$	1,318,534
	(Over)/Under Recovery, as applicable (Form 2.00)	=	\$	(32,950)		\$	161,985
36 Prior Period Ad		=	\$	(-2,)	=	\$	102,000
	E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	672,188		\$	1,480,519
R(m) = Average	Monthly Member System Revenue for the 12 Months Ending with		*	0.2,100		Ψ	1,300,010
	pense Month (Form 3.00)	=	s	17,415,353	=	s	17,380,905
	(m); as a % of Revenue	=	Ψ	3.859744%		φ	8,518078%
	/			0.00014470			0.010010%

Calculation of Total E(m) and Calculation of Jurisdictional Environmental Surcharge Billing Factor

1 2 3 4 5	Calculation of Total E(m) E(m) = OE · BAS + RORB, where OE = Pollution Control Operating Expenses BAS = Total Proceeds from By-Product and Allowance Sales RORB = [(RB/12) x (RORORB)]						
6				June 2015			July 2015
7	OE	=	\$	1,898,121	=	\$	2,131,101
8	BAS	=	\$	265,000	=	\$	-
9	RORB	=	\$	96,799	=	\$	98,117
10	<u>E(m)</u>	=	\$	1,729,920	=	\$	2,229,218
11							-
12	Calculation of Jurisdictional Environmental Surcharge Billing I	act	or				
13	Member System Allocation Ratio for the Month (Form 3.00)	=		51.987137%	=		52.744468%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	899,336	=	\$	1,175,789
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	87,097	=	S	8.885
16	Prior Period Adjustment	=	\$		=	S	· •
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	986,433	=	ŝ	1,184,674
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with					•	,===,===
10	the Current Expense Month (Form 3.00)	=	\$	17,368,364	=	S	17,411,186
19	CESF: E(m) / R(m); as a % of Revenue	=	-	5.679481%		•	6.804097%

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2015-00320

Response to Commission Staff's First Request for Information dated September 28, 2015

October 21, 2015

1 Item 2) For each of the three Member Cooperatives, prepare a 2 summary schedule showing the Member Cooperative's pass-through 3 revenue requirement for the months corresponding with the two-year 4 review. Include the two months subsequent to the billing period included 5 in the review periods. Include a calculation of any additional over- or 6 under-recovery amount the Member Cooperative believes needs to be 7 recognized for the two-year review. Provide all supporting calculations 8 and documentation in Excel spreadsheet format with formulas intact and 9 unprotected and all rows and columns fully accessible.

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Response) The attached two sets of schedules (Attachment 1 for non-dedicated delivery point customers and Attachment 2 for dedicated delivery point customers) reflect Big Rivers' Members environmental surcharge pass-through for the months corresponding to Big Rivers' expense months of June 2013 through May 2015, applied to Members' invoices for the service months of July 2013 through June 2015, which Big Rivers billed to its Members during the months of August 2013 through July 2015. As illustrated in the attached schedules, there is no billing lag for dedicated delivery point customers. As requested, on the compact disc ("CD") accompanying these responses, Big Rivers is providing these attachments in an Excel file showing all supporting calculations with formulas intact and unprotected, and all rows and columns fully accessible.

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
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Response to Commission Staff's First Request for Information dated September 28, 2015

October 21, 2015

1	As requested by the Commission, the attached schedules include th
2	Members' two billing months immediately following the review period. Th
3	information in the attached schedules was obtained from the Members' monthly
4	Environmental Surcharge Schedules provided by Big Rivers' Members. Othe
5	than the on-going cumulative over/under recovery mechanism, no additional
6	over/under recovery amount is being requested.
7	
8	
9	Witness) Nicholas R. Castlen
10	

1	KENERGY CORP.													
2	ENVIRONMENTAL SURCHARGE REVIEW													
3			NON-DEDICAT:	ED DELIVERY I	POINT CUSTOMERS									
4														
5	(a)	(f)												
6			-											
7		Big Rivers'				(Over)/Under								
8		Invoice			ES Amount Billed	Recovery								
9		ES Amount	(Over)/Under	Total	to Kenergy's	[(d) for 2nd preceding								
10	Service	for Service	Recovery	Recoverable	Customers	month less (e)								
11	Mo/Yr	Month_	[from (f)]	[(b) + (c)]	(Line 11 per Filing)	for current month]								
12	Jul-13	307,454.30	(38,274.06)	269,180.24	311,004.93	(38,274.06)								
13	Aug-13	355,641.02	(13,844.78)	341,796.24	297,208.15	(13,844.78)								
14	Sep-13	342,953.18	10,545.85	353,499.03	258,634.39	10,545.85								
15	Oct-13	257,520.03	24,126.52	281,646.55	317,669.72	24,126.52								
16	Nov-13	410,934.89	11,982.82	422,917.71	341,516.21	11,982.82								
17	Dec-13	458,036.89	(29,634.36)	428,402.53	311,280.91	(29,634.36)								
18	Jan-14	603,901.94	(52,822.62)	551,079.32	475,740.33	(52,822.62)								
19	Feb-14	494,765.42	(36,725.06)	458,040.36	465,127.59	(36,725.06)								
20	Mar-14	226,302.72	42,371.63	268,674.35	508,707.69	42,371.63								
21	Apr-14	276,403.67	41,564.73	317,968.40	416,475.63	41,564.73								
22	May-14	254,647.72	43,083.58	297,731.30	225,590.77	43,083.58								
23	Jun-14	469,396.36	(38,571.26)	430,825.10	356,539.66	(38,571.26)								
24	Jul-14	472,223.74	(36,433.25)	435,790.49	334,164.55	(36,433.25)								
25	Aug-14	611,798.96	(4,047.05)	607,751.91	434,872.15	(4,047.05)								
26	Sep-14	510,404.61	(12,809.82)	497,594.79	448,600.31	(12,809.82)								
27	Oct-14	387,249.99	64,079.82	451,329.81	543,672.09	64,079.82								
28	Nov-14	475,626.70	21,356.93	496,983.63	476,237.86	21,356.93								
29	Dec-14	530,690.27	(90,216.10)	440,474.17	541,545.91	(90,216.10)								
30	Jan-15	624,510.27	(17,629.72)	606,880.55	514,613.35	(17,629.72)								
31	Feb-15	637,414.80	(28,063.53)	609,351.27	468,537.70	(28,063.53)								
32	Mar-15	345,334.55	6,961.97	352,296.52	599,918.58	6,961.97								
33	Apr-15	174,221.20	97,061.67	271,282.87	512,289.60	97,061.67								
34	May-15	221,413.47	49,585.69	270,999.16	302,710.83	49,585.69								
35	Jun-15	587,137.81	(26,739.34)	560,398.47	298,022.21	(26,739.34)								
36	Jul-15	437,555.91	(38,965.49)	398,590.42	309,964.65	(38,965.49)								
37	Aug-15	488,735.02	(29,875.40)	458,859.62	590,273.87	(29,875.40)								

1	JACKSON PURCHASE ENERGY CORPORATION									
2	ENVIRONMENTAL SURCHARGE REVIEW									
3	L		NON-DEDICAT	ED DELIVERY	POINT CUSTOMERS					
4		4.5								
5	(a)	(b)	(c)	(d)	(e)	(f)				
6 7		D:- D:1								
8		Big Rivers'				(Over)/Under				
9]	Invoice	(0)(1)	Pro . a	ES Amount Billed	Recovery				
9 10	Camia.	ES Amount	(Over)/Under	Total	to JPEC's	[(d) for 3rd preceding				
10	Service	for Service	Recovery	Recoverable	Customers	month less (e)				
	Mo/Yr	Month	[from (f)]	[(b) + (c)]	(Line 11 per Filing)	for current month)]				
12	Jul-13	174,263.38	(21,317.96)	152,945.42	159,445.10	(21,317.96)				
13	Aug-13	192,807.41	(34,087.58)	158,719.83	169,345.07	(34,087.58)				
14	Sep-13	187,242.94	(11,066.33)	176,176.61	202,974.25	(11,066.33)				
15	Oct-13	131,619.32	(220.02)	131,399.30	153,165.44	(220.02)				
16	Nov-13	220,902.30	38,502.36	259,404.66	120,217.47	38,502.36				
17	Dec-13	246,576.20	13,736.09	260,312.29	162,440.52	13,736.09				
18	Jan-14	314,415.48	(48,356.86)	266,058.62	179,756.16	(48,356.86)				
19	Feb-14	263,353.44	(109,852.11)	153,501.33	369,256.77	(109,852.11)				
20	Mar-14	123,239.66	(21,531.49)	101,708.17	281,843.78	(21,531.49)				
21	Apr-14	150,660.98	59,071.14	209,732.12	206,987.48	59,071.14				
22	May-14	149,717.82	41,903.10	191,620.92	111,598.23	41,903.10				
23	Jun-14	263,769.79	16,086.82	279,856.61	85,621.35	16,086.82				
24	Jul-14	262,555.79	(51,841.69)	210,714.10	261,573.81	(51,841.69)				
25	Aug-14	349,876.95	(38,990.95)	310,886.00	230,611.87	(38,990.95)				
26	Sep-14	282,790.87	(3,536.08)	279,254.79	283,392.99	(3,536.08)				
27	Oct-14	205,582.10	(1,250.92)	204,331.18	211,965.02	(1,250.92)				
28	Nov-14	257,034.88	98,987.43	356,022.31	211,898.57	98,987.43				
29	Dec-14	288,423.62	11,327.52	299,751.14	267,927.27	11,327.52				
30	Jan-15	335,944.80	(66,369.79)	269,575.01	270,700.97	(66,369.79)				
31	Feb-15	341,027.00	(80,055.05)	260,971.95	436,077.36	(80,055.05)				
32	Mar-15	187,264.51	(3,935.98)	183,328.53	303,687.12	(3,935.98)				
33	Apr-15	99,396.95	9,350.95	108,747.90	260,224.06	9,350.95				
34	May-15	124,144.78	73,199.68	197,344.46	187,772.27	73,199.68				
35	Jun-15	340,139.53	39,978.12	380,117.65	143,350.41	39,978.12				
36	Jul-15	255,350.29	(33,710.35)	221,639.94	142,458.25	(33,710.35)				
37	Aug-15	281,154.81	(89,824.44)	191,330.37	287,168.90	(89,824.44)				

MEADE COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION

1 |

2	ENVIRONMENTAL SURCHARGE REVIEW									
3	NON-DEDICATED DELIVERY POINT CUSTOMERS									
4			-							
5	(a)	(b)	(c)	(d)	(e)	(f)				
6										
7		Big Rivers'				(Over)/Under				
8		Invoice			ES Amount Billed	Recovery				
9		ES Amount	(Over)/Under	Total	to MCRECC's	(d) for 1st preceding				
10	Service	for Service	Recovery	Recoverable	Customers	month less (e)				
11	_Mo/Yr	Month	[from (f)]	[(b) + (c)]	(Line 11 per Filing)	for current month]				
12	Jul-13	110,863.92	(9,192.25)	101,671.67	100,347.11	(9,192.25)				
13	Aug-13	129,176.57	2,976.92	132,153.49	98,694.75	2,976.92				
14	Sep-13	123,277.54	14,481.59	137,759.13	117,671.90	14,481.59				
15	Oct-13	104,105.29	8,968.25	113,073.54	128,790.88	8,968.25				
16	Nov-13	172,073.80	(25,301.40)	146,772.40	138,374.94	(25,301.40)				
17	Dec-13	201,893.98	(29,357.28)	172,536.70	176,129.68	(29,357.28)				
18	Jan-14	279,567.56	(25,838.97)	253,728.59	198,375.67	(25,838.97)				
19	Feb-14	217,793.23	18,194.85	235,988.08	235,533.74	18,194.85				
20	Mar-14	98,102.77	42,915.56	141,018.33	193,072.52	42,915.56				
21	Apr-14	113,314.45	39,504.72	152,819.17	101,513.61	39,504.72				
22	May-14	91,030.33	(7,713.78)	83,316.55	160,532.95	(7,713.78)				
23	Jun-14	168,976.19	(13,677.12)	155,299.07	96,993.67	(13,677.12)				
24	Jul-14	170,418.54	(4,135.42)	166,283.12	159,434.49	(4,135.42)				
25	Aug-14	219,903.17	(4,587.05)	215,316.12	170,870.17	(4,587.05)				
26	Sep-14	184,034.08	32,928.82	216,962.90	182,387.30	32,928.82				
27	Oct-14	139,335.37	12,844.59	152,179.96	204,118.31	12,844.59				
28	Nov-14	211,359.71	(56,246.64)	155,113.07	208,426.60	(56,246.64)				
29	Dec-14	229,088.42	(9,198.18)	219,890.24	164,311.25	(9,198.18)				
30	Jan-15	286,538.44	(35,545.75)	250,992.69	255,435.99	(35,545.75)				
31	Feb-15	297,386.51	(6,675.61)	290,710.90	257,668.30	(6,675.61)				
32	Mar-15	152,073.16	80,505.32	232,578.48	210,205.58	80,505.32				
33	Apr-15	65,191.85	62,977.35	128,169.20	169,601.13	62,977.35				
34	May-15	79,912.51	(9,015.60)	70,896.91	137,184.80	(9,015.60)				
35	Jun-15	206,651.54	(15,687.43)	190,964.11	86,584.34	(15,687.43)				
36	Jul-15	158,428.23	(19,348.52)	139,079.71	210,312.63	(19,348.52)				
37	Aug-15	174,083.64	56,190.75	230,274.39	82,888.96	56,190.75				

1	KENERGY CORP								
2	ENVIRONMENTAL SURCHARGE REVIEW								
3			VERY POINT CUSTO						
3				<u> </u>					
5	(a)	(b)	(c)	(d)					
6		Big Rivers Electric	_						
7		Invoice	Service Month	$\mathbf{Monthly}$					
8		Amount	to	Over/Under					
9	Service	for Service	Retail	(Column (b)					
10	Mo/Yr	Month	Consumer	less column (c)					
11	Jul-13	1,580,127.78	1,580,127.78	•					
12	Aug-13	1,370,776.16	1,370,776.16	•					
13	Sep-13	814,725.80	814,725.80	-					
14	Oct-13	817,684.61	817,684.61	•					
15	Nov-13	1,053,080.35	1,053,080.35	-					
16	Dec-13	1,024,147.60	1,024,147.60	-					
17	Jan-14	1,130,297.30	1,130,297.30	-					
18	Feb-14	249,785.02	249,785.02	-					
19	Mar-14	141,504.08	141,504.08	=					
20	Apr-14	224,176.66	224,176.66	•					
21	May-14	182,793.68	182,793.68	-					
22	Jun-14	283,172.86	283,172.86	-					
23	Jul-14	281,738.70	281,738.70	-					
24	Aug-14	350,957.18	350,957.18	-					
25	Sep-14	322,796.04	322,796.04	-					
26	Oct-14	287,419.69	287,419.69	-					
27	Nov-14	285,636.49	285,636.49	-					
28	Dec-14	310,670.18	310,670.18	-					
29	Jan-15	311,735.17	311,735.17						
30	Feb-15	303,063.71	303,063.71	-					
31	Mar-15	209,059.94	209,059.94	-					
32	Apr-15	157,861.83	157,861.83	-					
33	May-15	158,051.64	158,051.64	-					
34	Jun-15	334,648.58	334,648.58	-					
35	Jul-15	227,719.26	227,719.26	-					
36	Aug-15	280,924.26	280,924.26	_					

JACKSON PURCHASE ENERGY CORPORATION	
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ENVIRONMENTAL SURCHARGE REVIEW	
ENVIRONMENTAL SURCHARGE REVIEW	
DEDICATED DELIVERY POINT CUSTOMERS	
DEDICATED DELIVERY FOINT COSTOMERS	ļ

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5	(a)	(b)	(c)	(d)
6		Big Rivers Electric	-	
7		Invoice	Service Month	Monthly
8		Amount	То	(Over)/Under Recovery
9	Service	for Service	Retail	(Column (b)
10	Mo/Yr	Month	Consumer	Less column (c)
11	Jul-13	1,863.86	1,863.86	-
12	Aug-13	2,106.05	2,106.05	-
13	Sep-13	2,115.31	2,115.31	-
14	Oct-13	1,661.77	1,661.77	-
15	Nov-13	2,210.95	2,210.95	-
16	Dec-13	2,156.89	2,156.89	-
17	Jan-14	2,192.09	2,192.09	-
18	Feb-14	2,178.73	2,178.73	-
19	Mar-14	1,183.58	1,183.58	-
20	Apr-14	2,180.79	2,180.79	-
21	May-14	2,320.47	2,320.47	-
22	Jun-14	2,761.49	2,761.49	-
23	Jul-14	2,552.13	2,552.13	-
24	Aug-14	3,088.75	3,088.75	-
25	Sep-14	2,703.40	2,703.40	-
26	Oct-14	84.16	84.16	-
27	Nov-14	96.68	96.68	-
28	Dec-14	2,282.67	2,282.67	-
29	Jan-15	2,576.17	2,576.17	-
30	Feb-15	2,591.26	2,591.26	-
31	Mar-15	2,600.66	2,600.66	-
32	Apr-15	1,341.59	1,341.59	-
33	May-15	1,568.63	1,568.63	-
34	Jun-15	3,056.77	3,056.77	-
35	Jul-15	2,354.00	2,354.00	-
36	Aug-15	2,454.21	2,454.21	

37 38 39

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Meade County Rural Electric Cooperative Corporation has no dedicated delivery point customers.

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2015-00320

Response to Commission Staff's First Request for Information dated September 28, 2015

October 21, 2015

1	Item 3) Refer to Form 2.5, Operating and Maintenance Expenses, for
2	the last six expense months covered by the billing period under review.
3	For each of the expense line items listed on this schedule, explain the
4	reason(s) for any change in the expense levels from month to month if that
5	change is greater than plus or minus 10 percent.
6	
7	Response) Please see the attached schedules of Operating and Maintenance
8	("O&M") expenses, including the requested variance explanations, for the last six
9	expense months covered by the billing period under review.
10	
11	
12	Witnesses) Nicholas R. Castlen (Schedules of O&M Expenses) and
13	Lawrence V. Baronowsky (Reason(s) for Changes in Expense Levels)
14	

Form 2.5 - Operating and Maintenance Expenses Analysis

NOx Plan:													
			Dec-14 vs.	_	Jan-15 vs.		Feb-15 vs.		Mar-15 vs.		Apr-15 vs.		May-15 vs.
			Nov-14	İ	Dec-14		Jan-15		Feb-15		Mar-15		Apr-15
Expense Month	Nov-14	Dec-14	% Change	Jan-15	% Change	Feb-15	% Change	Mar-15	% Change	Apr-15	% Change	May-15	% Change
NOx Plan:	-											1	Grange
Anhydrous Ammonia	\$ 150,539	\$ 183,773	22%	\$ 117,179	-36%	\$ 145,164	24%	\$ 157,612	9%	\$ 115,480	-27%	\$ 120,897	5%
Emulsified Sulphur for NOx		-	See Note 1		See Note 1	-	See Note 1	-	See Note 1	-	See Note 1		See Note 1
Individual Expense Account Items			See Note 1	-	See Note 1	· -	See Note 1						
Individual Expense Account Items	-		See Note 1	-	See Note 1		See Note 1	-	See Note 1		See Note 1		See Note 1
Total NOx Plan O&M Expenses	\$ 150,539	\$ 183,773	22%	\$ 117,179	-36%	\$ 145,164	24%	\$ 157,612	9%	\$ 115,480	-27%	\$ 120,897	5%
								•					
SO2 Plan:													
		_	Dec-14 vs.		Jan-15 vs.		Feb-15 vs.	}	Mar-15 vs.		Apr-15 vs.		May-15 vs.
			Nov-14		Dec-14		Jan-15		Feb-15		Mar-15		Apr-15
Expense Month	Nov-14	Dec-14	% Change	Jan-15	% Change	Feb-15	% Change	Mar-15	% Change	Apr-15	% Change	May-15	% Change
SO2 Plan:										<u> </u>		<u> </u>	ondings
Disposal-Flyash/Bottom			ĺ								, -		3
Ash/Sludge (See Note 2)	\$ 260,757	\$ 378,126	45%	\$ 134,453	-64%	\$ 217,782	62%	\$ 236,474	9%	\$ 174,419	-26%	\$ 1,158,262	564%
Off Spec Gypsum	· -		See Note 1	-	See Note 1	,250,252	See Note 1						
Fixation Lime	137,385	206,792	51%	150,290	-27%	134,305	-11%	132,685	-1%	84,179	-37%	132,881	58%
Reagent-Calcium Oxide (landfill	-	-	See Note 1		See Note 1	-	See Note 1		See Note 1	•	See Note 1		See Note 1
Reagent-Limestone	255,483	189,105	-26%	227,111	20%	175,396	-23%	230,687	32%	190,136	-18%	195,218	3%
Reagent-Lime	1,262,535	1,178,457	-7%	1,323,017	12%	1,082,959	-18%	745,243	-31%	477,297	-36%	979,187	105%
Emulsified Sulphur for SO2	9,273	6,424	-31%	10,323	61%	8,974	-13%	6,388	-29%	11,879	86%	11,772	-1%
Reagent-DiBasic Acid	36,804	91,793	149%	108,392	18%	107,875	0%	89,971	-17%	90,046	0%	119,619	33%
Reagent-Sodium BiSulfite for SO2	42,738	32,186	-25%	32,473	1%	32,213	-1%	26,711	-17%	32,881	23%	33,081	1%
Reagent-Hydroxy Basic Acid		-	See Note 1		See Note 1	-	See Note 1	-	See Note 1	-	See Note 1		See Note 1
Total S02 Plan O&M Expenses	\$ 2,004,975	\$ 2,082,883	4%	\$ 1,986,059	-5%	\$ 1,759,504	-11%	\$ 1,468,159	-17%	\$ 1,060,837	-28%	\$ 2,630,020	148%
								<u> </u>		, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,000,020	110/0
SO3 Plan:													
			Dec-14 vs.		Jan-15 vs.		Feb-15 vs.		Mar-15 vs.		Apr-15 vs.		May-15 vs.
			Nov-14		Dec-14		Jan-15		Feb-15		Mar-15		Apr-15
Expense Month	Nov-14	Dec-14	% Change	Jan-15	% Change	Feb-15	% Change	Mar-15	% Change	Apr-15	% Change	May-15	% Change
SO3 Plan Expenses:											_ · · · · · · · · · · · · · ·		it Oliditgo
Hydrated Lime - SO3	\$ (17,741)	\$ 3,305	-119%	\$ -	-100%	\$	See Note 1	\$ 2,694	See Note 1	\$ 2,573	-4%	\$ -	-100%
Individual Expense Account Items		-	See Note 1		See Note 1		See Note 1	- 1	See Note 1		See Note 1	Ť	See Note 1
Individual Expense Account Items	-	-	See Note 1		See Note 1	-	See Note 1	-	See Note 1		See Note 1		See Note 1
Total S03 Plan O&M Expenses	\$ (17,741)	\$ 3,305	-119%	\$ -	-100%	\$	See Note 1	\$ 2,694	See Note 1	\$ 2,573	-4%	8 -	-100%
										_,			-10070
Total	\$ 2,137,773	\$ 2,269,961	•	\$ 2,103,238	· I	\$ 1,904,668	, 1	\$ 1,628,465	,	\$ 1,178,890		\$ 2,750,917	

Note 1: Percentage change not calculated because the cost incurred during the prior expense month was \$0.

Note 2: The monthly totals for Disposal Bottom Ash, Disposal Flyash and Disposal Flyash/Bottom Ash/Sludge have been consolidated due to similarity to better facilitate consistency.

Case No. 2015-00320

Attachment for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Lawrence V. Baronowsky

Page 1 of 4

Form 2.5 - Operating and Maintenance Expenses Analysis

Variance Explanations:

Annyarous Ammonia;				
Dec-14 vs Nov-14	22%	The increase was due to timing of product delivery and invoicing at Wilson and HMP&L.		
Jan-15 vs Dec-14	Jan-15 vs Dec-14 The decrease was due to 15% less generation at HMP&L and timing of product deli invoicing at Wilson.			
Feb-15 vs Jan-15	24%	The increase was due to the reduced use in January at HMP&L and timing of product delivery and invoicing at Wilson and HMP&L.		
Apr-15 vs Mar-15 -27% The decrease was due to 20% less generation at Wilson due to a sched outage and HMP&L Unit 2 was off line on planned outage all month.		The decrease was due to 20% less generation at Wilson due to a scheduled maintenance outage and HMP&L Unit 2 was off line on planned outage all month.		

<u>Disposal</u>	<u>-Flyas</u>	h/Botton	<u>1 Ash/</u>	Sludge:

	Dec-14 vs Nov-14	45%	The increase was due to the disposal contractor invoices at Wilson were accrued twice in December doubling Wilson's monthly cost.		
Jan-15 vs Dec-14 -64% The decrease in January reflects correction of the double accrual for Decem					
	Feb-15 vs Jan-15 62%		The increase in February reflects a normal month at Wilson following the reduced cost month in January due to the correction of the double accrual for December at Wilson.		
	Apr-15 vs Mar-15	-26%	The decrease was due to 20% less generation at Wilson, Green Unit 2 was off line on reserve standby the whole month of April and HMP&L Unit 2 was off line on planned outage all		
	May-15 vs Apr-15 564%		The increase was due to 20% increase in generation at Wilson, Green Unit 2 was returned a service after being off line on reserve standby the whole month of April and HMP&L Unit 2 was returned to service following the planned outage the entire month of April.		

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A ASSECTOR ASSESSED.		
Dec-14 vs Nov-14	51%	The increase was due to a 17% increase in fixation lime feed rate to the waste product at Green and HMP&L, and timing of product delivery and invoicing at Wilson.
Jan-15 vs Dec-14	-27%	The decrease was due to 15% less generation at HMP&L and timing of product delivery and invoicing at Wilson.
Feb-15 vs Jan-15	-11%	The decrease was due to 12% less generation at Green, 5% less generation at HMP&L.
Apr-15 vs Mar-15	-26%	The decrease was due to 20% less generation at Wilson, Green Unit 2 was off line on reserve standby the whole month of April and HMP&L Unit 2 was off line on planned outage all
May-15 vs Apr-15	58%	The increase was due to 20% increase in generation at Wilson, Green Unit 2 was returned to service after being off line on reserve standby the whole month of April and HMP&L Unit 2 was returned to service following the planned outage the entire month of April.

Form 2.5 - Operating and Maintenance Expenses Analysis

Reagent Limestone:

Dec-14 vs Nov-14	-26%	The decrease was due to timing of product delivery and invoicing at Wilson.
Jan-15 vs Dec-14	20%	The increase was due to timing of product delivery and invoicing at Wilson.
Feb-15 vs Jan-15	-23%	The decrease was due to timing of product delivery and invoicing at Wilson.
Mar-15 vs Feb-15	32%	The increase was due to timing of product delivery and invoicing at Wilson.
Apr-15 vs Mar-15	-18%	The decrease was due to 20% less generation at Wilson due to a maintenance outage.

Reagent-Lime:

iteagent-Dime.		
Jan-15 vs Dec-14 12%		The increase was due to timing of product delivery and invoicing at Green and HMP&L. Generation and fuel burn were actually down ~7%.
Feb-15 vs Jan-15	-18%	The decrease was due to 12% less generation at Green and 5% less generation at HMP&L.
Mar-15 vs Feb-15	-31%	The decrease was due to 25% less generation at HMP&L.
Apr-15 vs Mar-15	-36%	The decrease was due to 52% less generation at Green and 23% less generation at HMP&L.
May-15 vs Apr-15	105%	The increase was due to 80% more generation at Green and 73% more generation at HMP&L.

Emulsified Sulfur for SO2:

Dec-14 vs Nov-14	-31%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to one load of chemical added at Wilson in November and none was added in December.
Jan-15 vs Dec-14	61%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to adding two loads of chemical at Wilson in January and no chemical was added in December.
Feb-15 vs Jan-15	-13%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to only one load of chemical added at Wilson in February and two loads were added in January.
Mar-15 vs Feb-15	-29%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to one load of chemical added at Wilson in February and none was added in March.
Apr-15 vs Mar-15	86%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to adding two loads of chemical at Wilson in April and no chemical was added in March.

Form 2.5 - Operating and Maintenance Expenses Analysis

TO.		T		
H GO	cont.	libbs	air.	Acid:

Dec-14 vs Nov-14	149%	The decrease was due to timing of product delivery and invoicing at Wilson.
Jan-15 vs Dec-14	18%	The decrease was due to timing of product delivery and invoicing at Wilson.
Mar-15 vs Feb-15	-17%	The decrease was due to timing of product delivery and invoicing at Wilson.
May-15 vs Apr-15	33%	The increase was due to timing of product delivery and invoicing and the reduced generation in April at Wilson.

Reagent-Sodium BiSulfite for SO2:

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Dec-14 vs Nov-14	-25%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The Decrease is due to two loads of chemical were added at HMP&L in November and none was added HMP&L in December.
Mar-15 vs Feb-15	-17%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The Decrease is due to four loads of chemical were added at Wilson in February and only three loads were added in March.
Apr-15 vs Mar-15	23%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The Decrease is due to only three loads of chemical were added at Wilson in March and four loads were added in April.

Hydrated Lime - SO3:

Dec-14 vs Nov-14	-119%	The decrease was due to operational needs related to ambient conditions at Wilson.
Jan-15 vs Dec-14	-100%	The decrease was due to operational needs related to ambient conditions at Wilson.
Mar-15 vs Feb-15	See Note 1	
May-15 vs Apr-15	-100%	The decrease was due to operational needs related to ambient conditions at Wilson.

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2015-00320

Response to Commission Staff's First Request for Information dated September 28, 2015

October 21, 2015

1	Itom () Defen to Dig Diversel monthly environment 1
	Item 4) Refer to Big Rivers' monthly environmental surcharge reports
2	for the last six expense months in this review period. Provide the
3	calculations and supporting data for the rates of return included in each
4	monthly environmental surcharge filing. Provide all supporting
5	calculations and documentation in Excel spreadsheet format, with
6	formulas intact and unprotected and all rows and columns fully
7	accessible.
8	
9	Response) Please see the attachment to this response for the calculations and
10	supporting data for the rates of return included in each monthly environmental
11	surcharge filing for the last six expense months in this review period. These
12	calculations are also provided in Excel spreadsheet format, with formulas intact
13	and unprotected and all rows and columns accessible, on the CD accompanying
14	these responses.
15	
16	
17	Witness) Nicholas R. Castlen
18	

Calculation of Rate of Return on Environmental Compliance Rate Base For the Expense Months: December 2014 - May 2015

Calcula	tion of Monthly Rate of Return										
1	Expense Month		Dec-14		<u>Jan-15</u>	Feb-15	Mar-15		Apr-15		May-15
2	Month-to-Date Interest Expense on Long-Term Debt:										
3	RUS - Series A Note	\$	397,054.44	\$	397,112.07	\$ 358,685.46	\$ 397,116.04	\$	384,361.80	\$	397,175.86
4	RUS - Series B Note	\$	709,867.10	\$	720,242.34	\$ 650,541.47	\$ 720,242.34	\$	•		730,540.37
5	CoBank - Series 2012A Notes	\$	808,076.26	\$	800,762.89	\$ 723,269.71	\$ 800,762.88	\$	•		793,362.67
6	CFC - Series 2012B Refinance Note	\$	995,676.65	\$	995,676.65	\$ 900,617.74	\$ 989,018.37	\$	957,331.52	\$	989,018.46
7	CFC - Series 2012B Equity Note	\$	179,239.39	\$	179,239.39	\$ 179,239.38	\$ 177,677,22	\$			177,677,23
8	Series 2010A P.C. Bonds	\$	416,500.00	\$	416,500.00	\$ 416,500.00	\$ 416,500.00	\$	•		416,500.00
9					<u> </u>					_	
10	(a) Total Monthly Interest Expense on Long-Term Debt	S	3,506,413.84	\$	3,509,533.34	\$ 3,228,853.76	\$ 3,501,316.85	S	3,410,615.42	S	3,504,274.59
11			, ,		, ,	, .,	-,,	-	-,,	-	2,001,271105
12	Total Outstanding Long-Term Debt (Beginning of Month)	\$	841,055,408.32	\$	841,187,007.68	\$ 841,199,435,50	\$ 838,045,426,48	\$	838,137,894.63	\$	838,149,964.76
13	Total Outstanding Long-Term Debt (End of Month)	\$	841,187,007.68		841,199,435.50		838,137,894.63		838,149,964.76		834,969,541.24
14	(b) Average Outstanding Long-Term Debt during Month	\$	841,121,208.00		841,193,221.59	 839,622,430.99	838,091,660.56		838,143,929,70		836,559,753.00
15					. ,	, ,	. ,		, ,	-	,,
16	(c) Number of Days During Year		365		365	365	365		365		365
17											202
18	(d) Number of Days During Month		31		31	28	31		30		31
19	•										
20	(e) Average Cost of Debt $[(a) \div (b)] \times [(c) \div (d)]$		4.91%		4.91%	5.01%	4.92%		4.95%		4.93%
21											11,52,10
22	(f) Applicable TIER 1		1.24		1.24	1.24	1.24		1.24		1.24
23	W - TF				2,40.7		1.24		1,24		1.24
24	(g) Rate of Return on Environmental Compliance Rate Base [(e) x (f)]		6.09%	-	6.09%	6.21%	6.10%		6.14%		6,11%
25											

^{27 &}lt;sup>1</sup> Applicable Times Interest Earned Ratio ("TIER") for calculating the Rate of Return on Environmental Compliance Plan Rate Base per Big Rivers'

Case No. 2015-00320 Attachment for Response to Staff Item 4 Witness: Nicholas R. Castlen Page 1 of 1

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2015-00320

Response to Commission Staff's First Request for Information dated September 28, 2015

October 21, 2015

1	Item 5) K	RS 278.183(3) provides that during the two-year review, the
2		shall, to the extent appropriate, incorporate environmental
3		nounts found just and reasonable into the existing base rates
4	of the utility.	
5		
6	a.	Does Big Rivers believe any surcharge amounts need to be
7		incorporated into its base rates in conjunction with this
8		two-year review? If so, provide the surcharge amount that
9		Big Rivers believes should be incorporated into its
10		existing base rates. Explain how the surcharge amount
11		should be incorporated into the base rates. Include all
12		supporting calculations, work papers, and assumptions
13		as well as any analysis that Big Rivers believes supports
14		its position. Provide all supporting schedules in Excel
15		spreadsheet format, with formulas intact and unprotected
16		and all rows and columns fully accessible.
17	ь.	Provide the Base Environmental Surcharge Factor
18		("BESF") that reflects all environmental surcharge
19		amounts previously incorporated into existing base rates
20		and the amount determined in part (a). Include all
21		supporting calculations, work papers, and assumptions.
22		Provide all supporting schedules in Excel spreadsheet

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
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1			format, with formulas intact and unprotected and all
2			rows and columns fully accessible.
3		c.	Does Big Rivers believe that there will need to be
4			modifications to either the surcharge mechanism or the
5			monthly surcharge reports, other than a revision to BESF,
6			as a result of incorporating environmental surcharge
7			amounts into Big Rivers' existing base rates? If so,
8			provide a detailed explanation of the modifications and
9			provide updated monthly surcharge reports.
10			
l 1	Response)		
12		a.	At this time Big Rivers does not believe that any surcharge
13			amounts need to be incorporated into its base rates.
4		b.	Not Applicable.
15		c.	Not Applicable.
6			
7			
8	Witness:	Nich	olas R. Castlen
9			

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS ELECTRIC CORPORATION FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2015 AND THE PASS THROUGH MECHANISM OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES CASE NO. 2015-00320

> Response to Commission Staff's First Request for Information dated September 28, 2015

October 21, 2015

1	Item 6) Confirm that at present, it is Big Rivers' intent to idle the
2	Wilson generating station on December 31, 2015, as stated in Mr. Robert
3	Berry's letter to the Commission on June 11, 2014, barring any new
4	opportunities for favorable power sales that would justify its continued
5	operation.
6	
7	Response) Big Rivers does not intend to idle the Wilson generating station on
8	December 31, 2015, due to its success in selling energy on a forward basis to third
9	parties through the end of 2016, and in selling capacity for the MISO planning
10	years $2015 - 2016$ and $2016 - 2017$. Given Wilson's favorable position relative to
11	current MISO capacity and energy prices, the Wilson plant may not be idled in the
12	foreseeable future.
13	
14	
15	Witness) Lawrence V. Baronowsky
16	