

October 5, 2017

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VIA FEDERAL EXPRESS

Gwen R. Pinson Executive Director Public Service Commission 211 Sower Boulevard, P.O. Box 615 Frankfort, Kentucky 40602-0615 RECEIVED

OCT 6 2017

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 Six-Month Billing Period Ending January 31, 2017, for the Two-Year Billing Period ending January 31, 2017 and the Pass Through Mechanism of its Three Member Distribution Cooperatives,

PSC Case No. 2017-00345

Dear Ms. Pinson:

Enclosed for filing in the above-referenced matter are an original and seven copies of:
(i) Big Rivers Electric Corporation's responses to the Public Service Commission Staff's first request for information, and (ii) the Direct Testimony of Nicholas R. Castlen on behalf of Big Rivers Electric Corporation, Jackson Purchase Energy Corporation, Kenergy Corp., and Meade County Rural Cooperative Corporation. I certify that on this date, a copy of this letter and all attachments were served on all parties of record by first class mail.

Sincerely,

Tyson Kamuf

TAK/abg

Enclosures

cc:

DeAnna Speed Dennis Cannon Jeffrey Hohn Marty Littrel

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 Case No. SIX-MONTH BILLING PERIOD ENDING 2017-00345 JANUARY 31, 2017, FOR THE TWO-YEAR **BILLING PERIOD ENDING JULY 31, 2017,** AND THE PASS THROUGH MECHANISM FOR ITS THREE MEMBER DISTRIBUTION COOPERATIVES

RECEIVED

OCT 6 2017

DIRECT TESTIMONY

PUBLIC SERVICE COMMISSION

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 6, 2017

> Case No. 2017-00345 Witness: Nicholas R. Castlen Page 1 of 10

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, graduating Magna Cum Laude with Departmental Honors
12		in Accounting, and a Master of Science in Accounting from the University of
13		Kentucky in 2007. I became a Certified Public Accountant (CPA) in the state
14		of Kentucky in 2007.
15		Before assuming my current position as Manager of Finance in July
16		2013, I was a Staff Accountant at Big Rivers primarily responsible for the
17		accounting and administration of the Company's long- and short-term debt
18		obligations and various rate mechanisms. Prior to joining Big Rivers, I was
19		a Revenue Accounting Analyst at LG&E and KU Energy LLC from December
20		2009 to April 2012, where I was responsible for various financial accounting,
21		reporting, and analysis roles for retail and wholesale, electric and gas utility
22		revenues. From January 2006 to December 2009, I was employed by
23		PricewaterhouseCoopers LLP as an Audit and Assurance Associate.

Q. Please summarize your duties at Big Rivers.

1

As the Manager of Finance, my primary responsibilities involve providing 2 A. direction and oversight to corporate accounting and finance activities related 3 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' Fuel 7 Adjustment Clause (FAC) and Environmental Surcharge (ES) rate 8 mechanisms and the related filings with the Kentucky Public Service 9 Commission (the "Commission").

10 Q. Have you previously testified before the Commission?

11 A. Yes. I have provided testimony and responses to data requests in Case Nos.

12 2012-00534, 2013-00139, 2013-00347, 2014-00097, 2014-00323, 2015-00124,

13 2015-00320, 2016-00124, and 2016-00368 (reviews of Big Rivers' ES

14 mechanism). I have also served as a witness, providing testimony and/or

15 responses to data requests, in Case Nos. 2012-00555, 2013-00266, 2013
16 00449, 2014-00230, 2014-00455, 2015-00237, 2016-00006, 2016-00235, 2017
17 00006, and 2017-00287 (reviews of Big Rivers' FAC mechanism).

18 Q. On whose behalf are you filing this testimony?

19 A. I am filing this testimony on behalf of Big Rivers and its three member 20 distribution cooperatives, which are Jackson Purchase Energy Corporation 21 ("JPEC"), Kenergy Corp. ("Kenergy"), and Meade County Rural Electric 22 Cooperative Corporation ("Meade County") (collectively, the "Members").

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, 2015, through July 31, 2017, (which corresponds to Big Rivers' expense months of June 2015 through May 2017). 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 in this case, dated September 15, 2017, ("Staff's First Requests") which accompany this testimony.

This testimony also includes information the Members have provided me in support of their pass-through mechanisms which 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 periods for the Members' pass-through mechanisms, which correspond to the August 2015 through July 2017 billing months for Big Rivers' ES mechanism, are the billing months of September 2015 through August 2017 for non-dedicated delivery point customers (*i.e.*, there is a one-month lag for non-dedicated delivery point customers) and August 2015 through July 2017 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.
- A. 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 reagents used to control SO₂ include emulsified sulfur, lime, fixation lime, limestone, dibasic

acid, and sodium bisulfite. The reagents used to control NOx include
anhydrous ammonia and emulsified sulfur. The reagent used to control SO:
is hydrated lime. Note that the 2007 Plan included only variable operations
and maintenance ("O&M") costs.

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, which Big Rivers operates and has contractual rights to a portion of the station's generation capacity. The 2012 Plan includes both 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).

Due to the terminations of retail power contracts with 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 for the Coleman station at this time. However, if Big Rivers decides to return the Coleman station to service, it will be required to complete the MATS projects before doing so.

Big Rivers' ES mechanism allows Big Rivers to recover costs related to

1	its	2007	Plan	(which	includes	only	variable	0&M	costs)	and	its	2012	Plan

- 2 (which includes both O&M and capital costs, as well as a rate of return on
- 3 the unrecovered portion of its capital costs), less proceeds from by-product
- 4 and emission allowance sales, plus or minus an ongoing cumulative under-
- 5 or over-recovery adjustment.
- 6 Q. Please provide a brief overview of the Members' pass-through
- 7 mechanisms.
- 8 A. The Members' pass-through mechanisms allow each Member to bill its retail
- 9 customers for the portion of Big Rivers' environmental surcharge that it was
- billed. JPEC's pass-through mechanism was approved by the Commission in
- 11 Case No. 2008-00010; Kenergy's pass-through mechanism was approved by
- the Commission in Case No. 2008-00009; and Meade County's pass-through
- mechanism was approved by the Commission in Case No. 2007-00470.
- 14 Q. Have there been any changes to Big Rivers' ES mechanism since the
- prior review?
- 16 A. No.
- 17 Q. Has Big Rivers' ES mechanism been accurately compiled, and is it
- operating as intended?
- 19 A. Yes.
- 20 Q. Did Big Rivers sell any SO₂ or NO_x allowances during the expense
- 21 months corresponding to the billing periods under review in this
- 22 case?

		**
ı	Δ	Yes.
L	Λ .	165.

In June 2015, Big Rivers sold 1,000 CSAPR Seasonal NOx Emission
Allowances, vintage $1/1/2015 - 12/31/2015$, and 1,000 CSAPR Annual NOx
Emission Allowances, vintage 1/1/2015 - 12/31/2015, to Houston Galveston
Brazoria Energy Ventures LLC for \$140,000 and \$135,000, respectively.
After accounting for broker fees of \$10,000, Big Rivers' net proceeds from
these sales were \$265,000, which Big Rivers included in its ES filing for the
June 2015 expense month as proceeds from "Allowance Sales" on ES Form
2.00.

In April 2016, Big Rivers received \$62.15 from the U.S. Environmental Protection Agency (EPA) for its allocated share of proceeds from the EPA's 2016 allowance auctions. Big Rivers included \$91.00 in its ES filing for the April 2016 expense month as proceeds from "Allowance Sales" on ES Form 2.00, which consisted of the \$62.15 received from the EPA in April 2016 for the 2016 allowance auctions plus a prior period adjustment of \$29.00.

In April 2017, Big Rivers received \$53.78 from the EPA for its allocated share of proceeds from the EPA's 2017 allowance auctions. Big Rivers included the \$53.78 (rounded up to \$54.00) in its ES filing for the April 2017 expense month as proceeds from "Allowance Sales" on ES Form 2.00.

- Q. Did Big Rivers recover any capital costs through its ES mechanism during the period under review?
- 22 A. Yes. Pursuant to the Commission's October 1, 2012 Order, in Case No. 2012-

1	00063, Big Rivers recovered capital costs through the monthly depreciation
2	of its 2012 Plan projects included in the calculation of Total E(m) in its
3	monthly ES filings during the period under review.

- Q. Did Big Rivers earn a rate of return on any capital expenditures
 through its ES mechanism during the period under review?
- Yes. Pursuant to the Commission's October 1, 2012 Order, in Case No. 2012-6 A. 7 00063, Big Rivers' earned a rate of return on its Environmental Compliance 8 Rate Base (calculated on Form 2.00 of its monthly ES filing) equal to its 9 monthly weighted average cost of debt plus the application of a Times Interest Earned Ratio (TIER) of 1.24. Detailed calculations of Big Rivers' 10 11 monthly Rates of Return on Environmental Compliance Rate Base, for the 12 six-month review period and the last six expense months in the two-year 13 review period, are provided in Big Rivers' response to Item 4 of Staff's First 14 Request.
- Q. What Base Environmental Surcharge Factor (BESF) cost did Big
 Rivers use during the review period?
- A. Big Rivers had no environmental surcharge related costs included in its base rates during the review period (i.e. Big Rivers BESF during the review period was 0.000000%).
- Q. Have the Members' pass-through mechanisms been accurately compiled, and are they operating as intended?
- 22 A. The Members believe their pass-through mechanisms have been accurately

- 1 compiled and are operating as intended.
- 2 Q. Were the amounts charged under Big Rivers' ES mechanism during
- 3 the review period just and reasonable?
- 4 A. Yes.
- 5 Q. Were the amounts charged under the Members' pass-through
- 6 mechanisms during the review period just and reasonable?
- 7 A. The Members believe the amounts charged under their pass-through
- 8 mechanisms are just and reasonable.
- 9 Q. Do Big Rivers and its Members have additional over- or under-
- recovery amounts they believe need to be recognized?
- 11 A. No. Big Rivers and its Members are not requesting any additional over- or
- under-recovery amounts. The normal over-/under-recovery carry-forward
- element of Big Rivers' ES mechanism is operating as intended.
- 14 Q. Is Big Rivers proposing to incorporate an environmental surcharge
- 15 amount into its existing base rates at this time?
- 16 A. No, Big Rivers is not proposing to incorporate an environmental surcharge
- amount into its existing base rates at this time.
- 18 Q. Does this conclude your testimony?
- 19 A. Yes, it does.

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

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 2nd day of October, 2017.

Notary Public, Kentucky State at Large

My Commission Expires

10-31-2020

ORIGINAL





COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

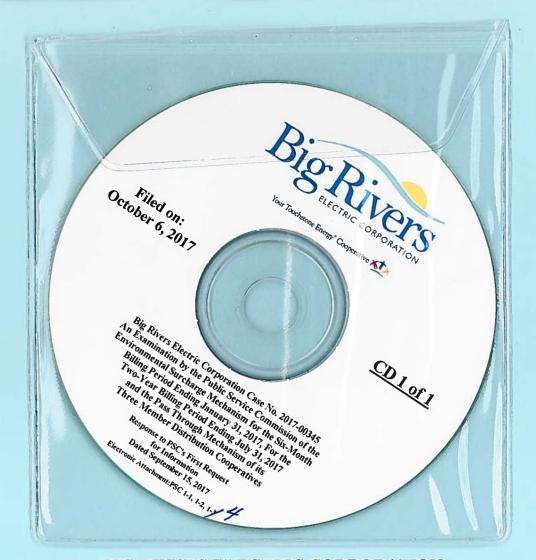
In the Matter of:

AN EXAMINATION	
BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE	
MECHANISM OF BIG RIVERS ELECTRIC	
CORPORATION FOR THE SIX-MONTH BILLING PERIOD ENDING	Case No.
JANUARY 31, 2017, FOR THE TWO-YEAR	2017-00345
BILLING PERIOD ENDING JULY 31, 2017	
AND THE PASS THROUGH MECHANISM	
OF ITS THREE MEMBER DISTRIBUTION (

Responses to Commission Staff's First Request for Information dated September 15, 2017

FILED: October 6, 2017

ORIGINAL



AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS
ELECTRIC CORPORATION FOR THE SIX-MONTH BILLING PERIOD ENDING
JANUARY 31, 2017, FOR THE TWO-YEAR BILLING PERIOD ENDING
JULY 31, 2017 AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

Responses to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

Information filed on CDs accompanying responses

PSC 1-1 - Calc. of Billing Factors - CN 2017-00345

PSC 1-2 - Member Pass-Thru Schedules - CN 2017-00345

PSC 1-4 - Monthly ROR Calc. - CN 2017-00345

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

VERIFICATION

I, Roger D. Hickman, 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.

Roger D. Hickman

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Roger D. Hickman on this the day of October, 2017.

Notary Public, Kentucky State at Large

My Commission Expires

10.31.2020

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

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 2nd day of October, 2017.

Notary Public, Kentucky State at Large

My Commission Expires //

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

VERIFICATION

I, Ronald D. (Ron) Gregory, 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.

Ronald D. (Ron) Gregory

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Ronald D. (Ron) Gregory on this the 2 nd day of October, 2017.

Notary Public, Kentucky State at Large

My Commission Expires

10-31-2020

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
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OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

1	Item 1) Prepare a summary schedule showing the calculation of E(m)
2	and the surcharge factor for the expense months covered by the billing
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
5	billing period in order to show the over- and under-recovery adjustments
6	for the months included for the billing periods. Include a calculation of
7	any additional over- or under-recovery amount Big Rivers believes needs to
8	be recognized for the six-month and two-year reviews. Provide all
9	supporting calculations and documentation in Excel spreadsheet format
10	with formulas intact and unprotected and all rows and columns fully
11	accessible.
12	
13	Response) Please see the attached schedule, in the format of Form 1.10, covering
14	each of the expense months from June 2015 through July 2017 (i.e., the expense
15	months covered by the billing periods under review plus the two expense months
16	subsequent to the billing periods).

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

L		All supporting calculations and documentation are also provided in
2	Excel spread	dsheet format with formulas intact and unprotected and all rows and
3	columns full	ly accessible, on the CD accompanying these responses.
1		No additional over- or under-recovery is being requested by Big Rivers
5	for the billin	ng periods under review.
6		
7		
3	Witness)	Nicholas R. Castlen
)		

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

1	Calculation of Total E(m)					
2	$E(m) = OE \cdot BAS + RORB$, 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 2015		July 2015
7	OE	=	\$	1,898,121	=	\$ 2,131,101
8	BAS	=	\$	265,000	=	\$ -
9	RORB	=	\$	96,799	=	\$ 98,117
10	E(m)	=	\$	1,729,920	=	\$ 2,229,218
11						
12	Calculation of Jurisdictional Environmental Surcharge Billing F	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	=	\$ 8,885
16	Prior Period Adjustment	=	\$		=	\$ -
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	986,433	=	\$ 1,184,674
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	=	\$	17,368,364	=	\$ 17,411,186
19	CESF: E(m) / R(m); as a % of Revenue	=	4	5.679481%		6.804097%
20						3,00,100,7
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 2015		September 2015
27	OE	=	\$	1,719,110	=	\$ 1,581,768
28	BAS	=	\$		=	\$ -
29	RORB	=	\$	103,520	=	\$ 107,666
30	E(m)	=	\$	1,822,630	=	\$ 1,689,434
31						
32	Calculation of Jurisdictional Environmental Surcharge Billing F	act	or			
33	Member System Allocation Ratio for the Month (Form 3.00)	=		57.180977%	=	56.9103829
34	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,042,198	=	\$ 961,463
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	(94,975)	=	\$ (42,678
36	Prior Period Adjustment	=	\$	-	=	\$ -
37	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	947,223	=	\$ 918,785
38	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	=	\$	17,345,862	=	\$ 17,389,421
39	CESF: E(m) / R(m); as a % of Revenue	=	Φ	5.460801%		5.2835869
00				0.40000170		0.2000007

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) x (RORORB)]						
6	(METE) if (METELE)			October 2015		1	November 2015
7	OE	=	\$	1,229,631	=		1,702,136
8	BAS	=	\$		=	\$	
9	RORB	=	\$	111,867	=	\$	126,055
10	E(m)	=	\$	1,341,498	=	\$	1,828,191
11						,	-,,
12	Calculation of Jurisdictional Environmental Surcharge Billing	Fact	or				
13	Member System Allocation Ratio for the Month (Form 3.00)	=		55.141710%	=		53.992825%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	739,725	=	\$	987,092
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	20,112	=	\$	113,981
16	Prior Period Adjustment	=	\$	-	=	\$	
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	759,837	=	\$	1,101,073
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	=	\$	17,475,377	=	\$	17,322,617
19	CESF: E(m) / R(m); as a % of Revenue	=		4.348044%	=		6.356274%
20							
21	Calculation of Total E(m)						
22	E(m) = OE - BAS + RORB, where						1
23	OE = Pollution Control Operating Expenses						
24	BAS = Total Proceeds from By-Product and Allowance Sales						
25	RORB = $[(RB/12) \times (RORORB)]$						
26				December 2015			January 2016
27	OE	=	\$	1,872,922	=	\$	1,849,337
28	BAS	=	\$		=	\$	-
29	RORB	=	\$	133,327	=	\$	136,469
30	E(m)	=	\$	2,006,249	=	\$	1,985,806
31							
32	Calculation of Jurisdictional Environmental Surcharge Billing	Fact	or				
33	Member System Allocation Ratio for the Month (Form 3.00)	=		56.541927%	=		55.996848%
34	Subtotal $E(m)$ = Subtotal $E(m)$ x Member System Allocation Ratio	=	\$	1,134,372	=	\$	1,111,989
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	81,322	=	\$	27,742
36	Prior Period Adjustment	=	\$	-	=	\$	*
37	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment R(m) = Average Monthly Member System Revenue for the 12 Months Ending with	=	\$	1,215,694	=	\$	1,139,731
38	the Current Expense Month (Form 3.00)	=	\$	17,246,273	=	\$	17,268,784

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				February 2016			March 2016
7	OE	=	\$	2,249,027	=	\$	2,307,761
8	BAS	=	\$		=	\$	-
9	RORB	=	\$	140,988	=	\$	145,515
10	E(m)	=	\$	2,390,015	=	\$	2,453,276
11							
12	Calculation of Jurisdictional Environmental Surcharge Billing F	act	or				
13	Member System Allocation Ratio for the Month (Form 3.00)	=		51.800691%	=		52.377123%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,238,044	=	\$	1,284,955
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	(263,421)	=	\$	(76,323
16	Prior Period Adjustment	=	\$		=	\$	
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	974,623	=	\$	1,208,632
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	=	\$	17,090,025	=	\$	16,866,302
19	CESF: E(m) / R(m); as a % of Revenue	=		5.702876%	=		7.1659579
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				April 2016			May 2016
27	OE	=	\$	2,551,737	=	\$	2,392,474
28	BAS	=	\$	91	=	\$	
29	RORB	=	\$	150,733	=	\$	151,647
30	E(m)	=	\$	2,702,379	=	\$	2,544,121
31							
32	Calculation of Jurisdictional Environmental Surcharge Billing I	act	or				
33	Member System Allocation Ratio for the Month (Form 3.00)	=		48.671082%	=		47.5193619
34	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,315,277	=	\$	1,208,950
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	86,801	=	\$	187,590
36	Prior Period Adjustment	=	\$	-	=	\$	-
37	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,402,078	=	\$	1,396,540
38	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with	_	ф	10.050.500	_	ø	10.000.01
200	the Current Expense Month (Form 3.00)	=	\$	16,953,598		\$	16,963,212
39	CESF: E(m) / R(m); as a % of Revenue	=		8.270091%	=		8.2327579

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

For the Expense Months: June 2015 to July 2017

1 Calculation of Total E(m)

BAS RORB		Culculation of Total L(III)						1
BAS	2	E(m) = OE - BAS + RORB, where						
RORB	3	OE = Pollution Control Operating Expenses						
	4	BAS = Total Proceeds from By-Product and Allowance Sales						
DE	5	$RORB = [(RB/12) \times (RORORB)]$						
BAS	6				June 2016			July 2016
RORB	7	OE	=	\$	2,469,374	=	\$	2,989,315
Em	8	BAS	=	\$		=	\$	
Calculation of Jurisdictional Environmental Surcharge Billing Factor Calculation of Jurisdictional Environmental Surcharge Billing Factor Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio \$ \$ 1.647.719 \$ 1.602.579	9	RORB	=	\$	152,733	=	\$	153,253
Calculation of Jurisdictional Environmental Surcharge Billing Factor	10	E(m)	=	\$	2,622,107	=	\$	3,142,568
Member System Allocation Ratio for the Month (Form 3.00)	11							
Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	12	Calculation of Jurisdictional Environmental Surcharge Billing	Fact	or				
Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	13	Member System Allocation Ratio for the Month (Form 3.00)	=		62.839495%	=		50.995850%
Prior Period Adjustment	14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,647,719	=	\$	1,602,579
E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	138,891	=	\$	(170,306)
R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	16	Prior Period Adjustment	=	\$	*	=	\$	
the Current Expense Month (Form 3.00)	17		=	\$	1,786,610	=	\$	1,432,273
CESF: E(m) / R(m); as a % of Revenue	18		=	\$	17,109,244	=	\$	17,191,379
Calculation of Total E(m)	19		=			=		8.331344%
E(m) = OE - BAS + RORB, where	20							
OE = Pollution Control Operating Expenses BAS = Total Proceeds from By-Product and Allowance Sales RORB = [(RB/12) x (RORORB)] OE	21	Calculation of Total E(m)						
BAS = Total Proceeds from By-Product and Allowance Sales RORB = [(RB/12) x (RORORB)] OE	22	E(m) = OE - BAS + RORB, where						
RORB = [(RB/12) x (RORORB)]	23	OE = Pollution Control Operating Expenses						
August 2016 September 2016	24	BAS = Total Proceeds from By-Product and Allowance Sales						
DE	25	$RORB = [(RB/12) \times (RORORB)]$						
BAS	26				August 2016		Se	ptember 2016
RORB	27	OE	=	\$	2,971,188	=	\$	2,398,951
E(m) = \$ 3,124,943 = \$ 2,553,755 Calculation of Jurisdictional Environmental Surcharge Billing Factor Member System Allocation Ratio for the Month (Form 3.00) = 51.409583% = 55.333397% Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio = \$ 1,606,520 = \$ 1,413,079 Adjustment for (Over)/Under Recovery, as applicable (Form 2.00) = \$ (304,602) = \$ (244,224) Prior Period Adjustment = \$ - = \$ - = \$ - \$ E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment = \$ 1,301,918 = \$ 1,168,855 R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00) = \$ 17,365,075 = \$ 17,627,328	28	BAS	=	\$	*	=	\$	
Calculation of Jurisdictional Environmental Surcharge Billing Factor Member System Allocation Ratio for the Month (Form 3.00) = 51.409583% = 55.333397% Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio = \$ 1,606,520 = \$ 1,413,079 Adjustment for (Over)/Under Recovery, as applicable (Form 2.00) = \$ (304,602) = \$ (244,224) Prior Period Adjustment = \$ - = \$ - \$ E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment = \$ 1,301,918 = \$ 1,168,855 R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00) = \$ 17,365,075 = \$ 17,627,328	29	RORB	=	\$	153,755	=	\$	154,804
Calculation of Jurisdictional Environmental Surcharge Billing Factor Member System Allocation Ratio for the Month (Form 3.00) = 51.409583% = 55.333397% Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio = \$ 1,606,520 = \$ 1,413,079 and 2	30	E(m)	=	\$	3,124,943	=	\$	2,553,755
33 Member System Allocation Ratio for the Month (Form 3.00) = 51.409583% = 55.333397% 34 Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio = \$ 1,606,520 = \$ 1,413,079 35 Adjustment for (Over)/Under Recovery, as applicable (Form 2.00) = \$ (304,602) = \$ (244,224) 36 Prior Period Adjustment = \$ - = \$ - 37 E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment = \$ 1,301,918 = \$ 1,168,855 38 R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00) = \$ 17,365,075 = \$ 17,627,328	31							
34 Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio = \$ 1,606,520 = \$ 1,413,079 35 Adjustment for (Over)/Under Recovery, as applicable (Form 2.00) = \$ (304,602) = \$ (244,224) 36 Prior Period Adjustment = \$ = \$. 37 E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment = \$ 1,301,918 = \$ 1,168,855 38 R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00) = \$ 17,365,075 = \$ 17,627,328	32	Calculation of Jurisdictional Environmental Surcharge Billing	Fact	or				
Adjustment for (Over)/Under Recovery, as applicable (Form 2.00) = \$ (304,602) = \$ (244,224) 36 Prior Period Adjustment = \$ - = \$ 37 E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment = \$ 1,301,918 = \$ 1,168,855 R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00) = \$ 17,365,075 = \$ 17,627,328	33	Member System Allocation Ratio for the Month (Form 3.00)	=		51.409583%	=		55.333397%
Prior Period Adjustment = \$.	34	Subtotal $E(m) = Subtotal E(m) \times Member System Allocation Ratio$	=	\$	1,606,520	=	\$	1,413,079
E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment = \$ 1,301,918 = \$ 1,168,855 R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00) = \$ 17,365,075 = \$ 17,627,328	35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	(304,602)	=	\$	(244,224)
R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00) = \$ 17,365,075 = \$ 17,627,328	36	Prior Period Adjustment	=	\$		=	\$	-
the Current Expense Month (Form 3.00) = \$ 17,365,075 = \$ 17,627,328	37		=	\$	1,301,918	=	\$	1,168,855
	38		=	\$	17,365,075	=	\$	17,627,328
	39	CESF: E(m) / R(m); as a % of Revenue	=		7.497336%	=		6.630926%

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) x (RORORB)]						
6	ROND - [(RD/12) x (RONOND)]			October 2016		,	November 2016
7	OE	=	\$	2,350,822	=		2,797,488
8	BAS	_	\$	2,330,822	=	\$	2,737,400
9	RORB	=	\$	153.979	=	\$	152,699
10	E(m)	=	\$	2,504,801			2,950,187
11	E(m)		φ	2,504,801	_	Φ	2,950,167
12	 Calculation of Jurisdictional Environmental Surcharge Billin	g Fact	tor				
13	Member System Allocation Ratio for the Month (Form 3.00)	=		64.862768%	=		64.169567%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,624,683	=	\$	1,893,122
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	(206,892)		\$	99,610
16	Prior Period Adjustment	=	\$		=	\$	
17	 E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,417,791	=	\$	1,992,732
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending wit	h					
	the Current Expense Month (Form 3.00)	=	\$	17,701,743	=	\$	17,855,946
19	CESF: E(m) / R(m); as a % of Revenue	=		8.009330%	=		11.160047%
20	G 1 1 1						
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 2016			January 2017
27	OE	=	\$	2,938,274	=	\$	2,839,057
28	BAS	=	\$		=	\$	
29	RORB	=	\$	152,124	=	\$	152,150
30	E(m)	=	\$	3,090,398	=	\$	2,991,207
31							
32	Calculation of Jurisdictional Environmental Surcharge Billin	g Fact	tor				
33	Member System Allocation Ratio for the Month (Form 3.00)	=		61.100409%	=		63.371926%
34	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,888,246	=	\$	1,895,585
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	19,723	=	\$	(386, 121)
36	Prior Period Adjustment	=	\$		=	\$	
37	$E(m) = Subtotal \; E(m) \; plus \; (Over)/Under \; Recovery \; plus \; Prior \; Period \; Adjustment$	=	\$	1,907,969	=	\$	1,509,464
38	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	th =	Φ	18,225,081	_	Φ	19.250.940
39	CESF: E(m) / R(m); as a % of Revenue		\$			Ф	18,250,846
39	CEST. E(III) / IX(III), as a % of Revenue			10.468919%	=		8.270652%

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

	C-11-ti					_	
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				February 2017			March 2017
7	OE	=	\$	1,584,736	=	\$	1,698,587
8	BAS	=	\$	•	=	\$	-
9	RORB	=	\$	155,077	=	\$	148,730
10	E(m)	=	\$	1,739,813	=	\$	1,847,317
11							
12	Calculation of Jurisdictional Environmental Surcharge Billing F	act	or				
13	Member System Allocation Ratio for the Month (Form 3.00)	=		73.961758%	=		69.694296%
14	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,286,796	=	\$	1,287,475
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	(321, 119)	=	\$	45,765
16	Prior Period Adjustment	=	\$	121,249	=	\$	
17	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,086,926	=	\$	1,333,240
18	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	=	\$	18,190,204	=	\$	18,439,474
19	CESF: E(m) / R(m); as a % of Revenue	=		5.975337%	=		7.230358%
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				April 2017			May 2017
27	OE	=	\$	2,128,823	=	\$	2,484,131
28	BAS	=	\$	54	=	\$	
29	RORB	=	\$	149,717	=	\$	148,734
30	E(m)	=	\$	2,278,486	=	\$	2,632,865
31							
32	Calculation of Jurisdictional Environmental Surcharge Billing F	act	or				
33	Member System Allocation Ratio for the Month (Form 3.00)	=		63.264739%	=		62.753042%
34	Subtotal E(m) = Subtotal E(m) x Member System Allocation Ratio	=	\$	1,441,478	=	\$	1,652,203
35	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	(22,049)	=	\$	218,910
36	Prior Period Adjustment	=	\$		=	\$	
37	E(m) = Subtotal E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	1,419,429	=	\$	1,871,113
38	R(m) = Average Monthly Member System Revenue for the 12 Months Ending with the Current Expense Month (Form 3.00)	=	\$	18,536,417	=		18,694,346
39	CESF: E(m) / R(m); as a % of Revenue	=		7.657515%			10.008978%

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

,	Calculation	ATatal F(m)					
1		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) x (RORORB)]					
6					June 2017		July 2017
7	OE		=	\$	2,497,522	=	\$ 2,387,138
8	BAS		=	\$		=	\$
9	RORB		=	\$	149,049	=	\$ 147,908
10	E(m)		=	\$	2,646,571	=	\$ 2,535,046
11							
12	Calculation of	of Jurisdictional Environmental Surcharge Billing F	act	or			
13	Member System	Allocation Ratio for the Month (Form 3.00)	=		73.130293%	=	68.791702%
14	Subtotal E(m) =	Subtotal E(m) x Member System Allocation Ratio	=	\$	1,935,445	=	\$ 1,743,901
15	Adjustment for (Over)/Under Recovery, as applicable (Form 2.00)	=	\$	104,686	=	\$ (112, 231)
16	Prior Period Adj	ustment	=	\$		=	\$
17	E(m) = Subtotal	E(m) plus (Over)/Under Recovery plus Prior Period Adjustment	=	\$	2,040,131	=	\$ 1,631,670
18		Monthly Member System Revenue for the 12 Months Ending with ense Month (Form 3.00)	=	\$	18,759,664	=	\$ 18,970,063
19	CESF: E(m) / R(n); as a % of Revenue	=		10.875093%	=	8.601289%

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

1	Item 2) For each of the three Member Cooperatives, prepare a summary
2	schedule showing the Member Cooperative's pass-through revenue
3	requirement for the months corresponding with the six-month and two-year
4	reviews. Include the two months subsequent to the billing periods 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 six-month and two-year reviews. Provide all supporting
8	calculations and documentation in Excel spreadsheet format with
9	$formulas\ intact\ and\ unprotected\ and\ all\ rows\ and\ columns\ fully\ accessible.$
10	
11	Response) The following five sets of schedules listed below, and attached to this
12	response, reflect the Member Cooperatives' environmental surcharge pass-through
13	revenue requirements for the months corresponding to Big Rivers' expense months
14	of June 2015 through July 2017, applied to Big Rivers' Members' invoices for the
15	service months of July 2015 through August 2017, which Big Rivers billed to its
16	Members during the months of August 2015 through September 2017 (i.e., the
17	months corresponding with the six-month and two-year reviews plus the two
18	subsequent months).

19

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

1	• Attachment 1 - Jackson Purchase Energy Corporation Non-Dedicated
2	Delivery Point Customers;
3	• Attachment 2 – Kenergy Corp. Non-Dedicated Delivery Point Customers;
4	• Attachment 3 – Meade County Rural Electric Cooperative Corporation Non-
5	Dedicated Delivery Point Customers;
6	• Attachment 4 – Jackson Purchase Energy Corporation Dedicated Delivery
7	Point Customers; and
8	• Attachment 5 – Kenergy Corp. Dedicated Delivery Point Customers.
9	
10	Note: Meade County Rural Electric Cooperative Corporation has no dedicated
11	delivery point customers.
12	As illustrated in the attached schedules, there is a one-month billing
13	lag for the Members' non-dedicated delivery point customers and no billing lag for
14	the Members' dedicated delivery point customers.
15	The information in the attached schedules was obtained from the
16	Members' monthly Environmental Surcharge Schedules provided by Big Rivers'
17	Members. Other than the on-going cumulative over-/under-recovery mechanism,
18	no additional over-/under-recovery amounts are being requested by the Members
19	for the billing periods under review.

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
OF THE ENVIRONMENTAL SURCHARGE MECHANISM
OF BIG RIVERS ELECTRIC CORPORATION
FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
AND THE PASS THROUGH MECHANISM
OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

l		All supporting calculations and documentation are provided in Excel
2	spreadsheet	format, with formulas intact and unprotected and all rows and columns
3	fully accessi	ble, on the CD accompanying these responses.
1		
5		
6	Witness)	Nicholas R. Castlen
7		

Six-Month and Two-Year Environmental Surcharge Review

1	JACKSON PURCHASE ENERGY CORPORATION (JPEC) NON-DEDICATED DELIVERY POINT CUSTOMERS														
2				U0052 1				VE.		ERS					
3	(a)	(b)	(c)	(d)	_	(e)	(f)	_	(g)	_	(h)	_	(i)	_	(j)
5	Big Rivers'	Big Rivers' ES Factor	Big Rivers'	Month Billed		Big Rivers'	Month Billed		ES Amount Billed to JPEC's		JPEC's (Over)/Under		JPEC's Total		JPEC's (Over)/Under Recovery
6	Expense	Based on	Service	by	1,000,000	voice ES Amount	by		Customers		Recovery		Recoverable	W. C. P.	for 3rd preceding month
7	Month	Expense Month	Month	Big Rivers		the Service Month	JPEC	_	(Line 11 per Filing)		[from (j)]	_	[(e) + (h)]		s (g) for current month)]
8	Jun-15	5.679481%	Jul-15	Aug-15	\$	255,350.29	Sep-15	\$	142,458.25	\$	(33,710.35)		221,639.94	\$	(33,710.35)
9	Jul-15	6.804097%	Aug-15	Sep-15	\$	281,154.81	Oct-15	\$	287,168.90	\$	(89,824.44)		191,330.37	\$	(89,824.44)
10	Aug-15	5.460801%	Sep-15	Oct-15	\$	204,337.66	Nov-15	\$	420,541.13	\$	(40,423.48)	\$	163,914.18	\$	(40,423.48)
11	Sep-15	5.283586%	Oct-15	Nov-15	\$	154,649.41	Dec-15	\$	181,038.28	\$	40,601.66	\$	195,251.07	\$	40,601.66
12	Oct-15	4.348044%	Nov-15	Dec-15	\$	135,153.66	Jan-16	\$	143,464.37	\$	47,866.00	\$	183,019.66	\$	47,866.00
13	Nov-15	6.356274%	Dec-15	Jan-16	\$	221,202.40	Feb-16	\$	125,495.09	\$	38,419.09	\$	259,621.49	\$	38,419.09
14	Dec-15	7.049024%	Jan-16	Feb-16	\$	313,020.82	Mar-16	\$	219,834.32	\$	(24,583.25)	\$	288,437.57	\$	(24,583.25)
15	Jan-16	6.599949%	Feb-16	Mar-16	\$	253,821.12	Apr-16	\$	245,088.32	\$	(62,068.66)	\$	191,752.46	\$	(62,068.66)
16	Feb-16	5.702876%	Mar-16	Apr-16	\$	173,511.73	May-16	\$	304,780.38	\$	(45, 158.89)	\$	128,352.84	\$	(45,158.89)
17	Mar-16	7.165957%	Apr-16	May-16	\$	205,494.40	Jun-16	\$	225,393.42	\$	63,044.15	\$	268,538.55	\$	63,044.15
18	Apr-16	8.270091%	May-16	Jun-16	\$	264,612.27	Jul-16	\$	147,147.38	\$	44,605.08	\$	309,217.35	\$	44,605.08
19	May-16	8.232757%	Jun-16	Jul-16	\$	363,164.24	Aug-16	\$	115,931.92	\$	12,420.92	\$	375,585.16	\$	12,420.92
20	Jun-16	10.442367%	Jul-16	Aug-16	\$	487,297.93	Sep-16	\$	336,615.14	\$	(68,076.59)	\$	419,221.34	\$	(68,076.59)
21	Jul-16	8.331344%	Aug-16	Sep-16	\$	373,881.68	Oct-16	\$	452,973.38	\$	(143,756.03)	\$	230,125.65	\$	(143,756.03)
22	Aug-16	7.497336%	Sep-16	Oct-16	\$	339,482.93	Nov-16	\$	430,773.13	\$	(55,187.97)	\$	284,294.96	\$	(55,187.97)
23	Sep-16	6.630926%	Oct-16	Nov-16	\$	223,899.93	Dec-16	\$	399,102.61	\$	20,118.73	\$	244,018.66	\$	20,118.73
24	Oct-16	8.009330%	Nov-16	Dec-16	\$	280,120.12	Jan-17	\$	165,135.49	\$	64,990.16	\$	345,110.28	\$	64,990.16
25	Nov-16	11.160047%	Dec-16	Jan-17	\$	516,885.13	Feb-17	\$	200,357.08	\$	83,937.88	\$	600,823.01	\$	83,937.88
26	Dec-16	10.468919%	Jan-17	Feb-17	\$	478,999.19	Mar-17	\$	287,377.30	\$	(43,358.64)	\$	435,640.55	\$	(43,358.64)
27	Jan-17	8.270652%	Feb-17	Mar-17	\$	299,988.32	Apr-17	\$	492,614.86	\$	(147,504.58)		152,483.74	\$	(147,504.58)
28	Feb-17	5.975337%	Mar-17	Apr-17	\$	224,095.57	May-17	\$	560,959.46	\$		\$	263,959.12	\$	39,863.55
29	Mar-17	7.230358%	Apr-17	May-17	\$	231,131.59	Jun-17	\$	334,448.18	\$		\$	332,323.96	\$	101,192.37
30	Apr-17	7.657515%	May-17	Jun-17	\$	284,515.27	Jul-17	\$	137,484.81	\$	14,998.93	\$	299,514.20	\$	14,998.93
31	May-17	10.008978%	Jun-17	Jul-17	\$	445,835.68	Aug-17	\$	254,790.40	\$	9,168.72	\$	455,004.40	\$	9.168.72
32	Jun-17	10.875093%	Jul-17	Aug-17	\$	579,585.24	Sep-17	\$	414,021.18	\$	(81,697.22)	-	497,888.02	\$	(81,697.22)
33	Jul-17	8.601289%	Aug-17	Sep-17	\$	401,720.58	Oct-17	\$	404,567.69	\$	(105,053.49)		296,667.09	\$	(105,053.49)
55	Jul-17	0.00120770	1146-17	Sep-17	,	101,720.30	00.17		101,007.07	4	(100,000.77)		2,0,007.07		(100,000.17)

Case No. 2017-00345

Attachment 1 of 5 for Response to Staff Item 2

Witness: Nicholas R. Castlen

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Six-Month and Two-Year Environmental Surcharge Review

1	KENERGY CORP.																
2						NON-DEDIC		VEI	RY POINT CUSTOM	ERS							
3	(a)	(b)	(c)	(d)		(e)	(f)		(g)	_	(h)		(i)		(j)		
4 5 6 7	Big Rivers' Expense Month	Big Rivers' ES Factor Based on Expense Month	Big Rivers' Service Month	Month Billed by Big Rivers	Invo	Big Rivers' ice ES Amount e Service Month	Month Billed by Kenergy		ES Amount Billed to Kenergy's Customers (Line 11 per Filing)		Kenergy's (Over)/Under Recovery [from (i)]		(Over)/Under		Kenergy's Total Recoverable [(e) + (h)]	[(i) 1	energy's (Over)/Under Recovery For 2nd preceding month (g) for current month
8	Jun-15	5.679481%	Jul-15	Aug-15	\$	437,555.91	Sep-15	\$	309,964.65	\$	(38,965.49)	\$	398,590.42	\$	(38,965.49)		
9	Jul-15	6.804097%	Aug-15	Sep-15	\$	488,735.02	Oct-15	\$	590,273.87	\$	(29,875.40)	\$	458,859.62	\$	(29,875.40)		
10	Aug-15	5.460801%	Sep-15	Oct-15	\$	369,160.00	Nov-15	\$	371,284.01	\$	27,306.41	\$	396,466.41	\$	27,306.41		
11	Sep-15	5.283586%	Oct-15	Nov-15	\$	288,917.18	Dec-15	\$	445,808.89	\$	13,050.73	\$	301,967.91	\$	13,050.73		
12	Oct-15	4.348044%	Nov-15	Dec-15	\$	247,234.19	Jan-16	\$	349,567.48	\$	46,898.93	\$	294,133.12	\$	46,898.93		
13	Nov-15	6.356274%	Dec-15	Jan-16	\$	399,366.28	Feb-16	\$	318,818.58	\$	(16,850.67)	\$	382,515.61	\$	(16,850.67)		
14	Dec-15	7.049024%	Jan-16	Feb-16	\$	576,129.63	Mar-16	\$	317,951.57	\$	(23,818.45)	\$	552,311.18	\$	(23,818.45)		
15	Jan-16	6.599949%	Feb-16	Mar-16	\$	467,310.47	Apr-16	\$	436,864.88	\$	(54,349.27)	\$	412,961.20	\$	(54,349.27)		
16	Feb-16	5.702876%	Mar-16	Apr-16	\$	322,169.29	May-16	\$	492,415.85	\$	59,895.33	\$	382,064.62	\$	59,895.33		
17	Mar-16	7.165957%	Apr-16	May-16	\$	360,999.50	Jun-16	\$	354,698.14	\$	58,263.06	\$	419,262.56	\$	58,263.06		
18	Apr-16	8.270091%	May-16	Jun-16	\$	470,408.12	Jul-16	\$	362,483.92	\$	19,580.70	\$	489,988.82	\$	19,580.70		
19	May-16	8.232757%	Jun-16	Jul-16	\$	623,690.37	Aug-16	\$	434,672.44	\$	(15,409.88)	\$	608,280.49	\$	(15,409.88)		
20	Jun-16	10.442367%	Jul-16	Aug-16	\$	834,216.13	Sep-16	\$	614,552.45	\$	(124,563.63)	\$	709,652.50	\$	(124,563.63)		
21	Jul-16	8.331344%	Aug-16	Sep-16	\$	678,631.33	Oct-16	\$	612,032.85	\$	(3,752.36)	\$	674,878.97	\$	(3,752.36)		
22	Aug-16	7.497336%	Sep-16	Oct-16	\$	616,226.62	Nov-16	\$	698,167.80	\$	11,484.70	\$	627,711.32	\$	11,484.70		
23	Sep-16	6.630926%	Oct-16	Nov-16	\$	404,786.74	Dec-16	\$	619,301.49	\$	55,577.48	\$	460,364.22	\$	55,577.48		
24	Oct-16	8.009330%	Nov-16	Dec-16	\$	518,593.88	Jan-17	\$	526,334.62	\$	101,376.70	\$	619,970.58	\$	101,376.70		
25	Nov-16	11.160047%	Dec-16	Jan-17	\$	940,800.97	Feb-17	\$	468,626.33	\$	(8,262.11)	\$	932,538.86	\$	(8,262.11)		
26	Dec-16	10.468919%	Jan-17	Feb-17	\$	869,175.74	Mar-17	\$	839,656.92	\$	(219,686.34)	\$	649,489.40	\$	(219,686.34)		
27	Jan-17	8.270652%	Feb-17	Mar-17	\$	550,426.63	Apr-17	\$	948,073.65	\$	(15,534.79)	\$	534,891.84	\$	(15,534.79)		
28	Feb-17	5.975337%	Mar-17	Apr-17	\$	415,254.12	May-17	\$	593,445.86	\$	56,043.54	\$	471,297.66	\$	56,043.54		
29	Mar-17	7.230358%	Apr-17	May-17	\$	404,443.35	Jun-17	\$	559,928.40	\$	(25,036.56)	\$	379,406.79	\$	(25,036.56)		
30	Apr-17	7.657515%	May-17	Jun-17	\$	494,546.93	Jul-17	\$	435,152.68	\$	36,144.98	\$	530,691.91	\$	36,144.98		
31	May-17	10.008978%	Jun-17	Jul-17	\$	800,892.11	Aug-17	\$	460,899.56	\$	(81,492.77)	\$	719,399.34	\$	(81,492.77)		
32	Jun-17	10.875093%	Jul-17	Aug-17	\$	1,014,987.58	Sep-17	\$	680,618.94	\$	(149,927.03)	\$	865,060.55	\$	(149,927.03)		
33	Jul-17	8.601289%	Aug-17	Sep-17	\$	714,573.60	Oct-17	\$	846,075.29	\$	(126,675.95)	\$	587,897.65	\$	(126,675.95)		

Case No. 2017-00345

Attachment 2 of 5 for Response to Staff Item 2

Witness: Nicholas R. Castlen

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Six-Month and Two-Year Environmental Surcharge Review

1	MEADE COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION (MCRECC)																		
2						NON-DEDIC	ATED DELI	VEI	RY POINT CUSTOM	ER	S								
3	(a)	(b)	(c)	(d)		(e)	(f)		(g)		(h)		(i)		(j)				
4 5 6 7	Big Rivers' Expense Month	Big Rivers' ES Factor Based on Expense Month	Big Rivers' Service Month	Month Billed by Big Rivers		Big Rivers' voice ES Amount	Month Billed by MCRECC		ES Amount Billed to MCRECC's Customers (Line 11 per Filing)		MCRECC's (Over)/Under Recovery [from (i)]		(Over)/Under		(Over)/Under Recovery		ICRECC's Total Recoverable [(e) + (h)]	[(i)	CRECC's (Over)/Under Recovery for 1st preceding month s (g) for current month]
8	Jun-15	5.679481%	Jul-15	Aug-15	\$	158,428.23	Sep-15	\$	210,312.63	\$	(19,348.52)	\$	139,079.71	\$	(19,348.52)				
9	Jul-15	6.804097%	Aug-15	Sep-15	\$	174,083.64	Oct-15	\$	82,888.96	\$	56,190.75	\$	230,274.39	\$	56,190.75				
10	Aug-15	5.460801%	Sep-15	Oct-15	\$	130,639.70	Nov-15	\$	208,580.79	\$	21,693.60	\$	152,333.30	\$	21,693.60				
11	Sep-15	5.283586%	Oct-15	Nov-15	\$	104,292.15	Dec-15	\$	176,824.37	\$	(24,491.07)	\$	79,801.08	\$	(24,491.07)				
12	Oct-15	4.348044%	Nov-15	Dec-15	\$	103,872.75	Jan-16	\$	90,662.42	\$	(10,861.34)	\$	93,011.41	\$	(10,861.34)				
13	Nov-15	6.356274%	Dec-15	Jan-16	\$	169,349.34	Feb-16	\$	104,171.39	\$	(11,159.98)	\$	158,189.36	\$	(11,159.98)				
14	Dec-15	7.049024%	Jan-16	Feb-16	\$	261,390.79	Mar-16	\$	210,644.46	\$	(52,455.10)	\$	208,935.69	\$	(52,455.10)				
15	Jan-16	6.599949%	Feb-16	Mar-16	\$	199,292.59	Apr-16	\$	181,653.02	\$	27,282.67	\$	226,575.26	\$	27,282.67				
16	Feb-16	5.702876%	Mar-16	Apr-16	\$	131,376.82	May-16	\$	171,165.59	\$	55,409.67	\$	186,786.49	\$	55,409.67				
17	Mar-16	7.165957%	Apr-16	May-16	\$	137,205.23	Jun-16	\$	168,227.27	\$	18,559.22	\$	155,764.45	\$	18,559.22				
18	Apr-16	8.270091%	May-16	Jun-16	\$	171,691.28	Jul-16	\$	152,841.83	\$	2,922.62	\$	174,613.90	\$	2,922.62				
19	May-16	8.232757%	Jun-16	Jul-16	\$	221,938.05	Aug-16	\$	225,207.28	\$	(50,593.38)	\$	171,344.67	\$	(50,593.38)				
20	Jun-16	10.442367%	Jul-16	Aug-16	\$	299,202.24	Sep-16	\$	183,552.54	\$	(12,207.87)	\$	286,994.37	\$	(12,207.87)				
21	Jul-16	8.331344%	Aug-16	Sep-16	\$	242,802.51	Oct-16	\$	287,498.51	\$	(504.14)	\$	242,298.37	\$	(504.14)				
22	Aug-16	7.497336%	Sep-16	Oct-16	\$	218,382.09	Nov-16	\$	215,553.97	\$	26,744.40	\$	245,126.49	\$	26,744.40				
23	Sep-16	6.630926%	Oct-16	Nov-16	\$	148,221.75	Dec-16	\$	200,734.68	\$	44,391.81	\$	192,613.56	\$	44,391.81				
24	Oct-16	8.009330%	Nov-16	Dec-16	\$	226,477.62	Jan-17	\$	221,519.15	\$	(28,905.59)	\$	197,572.03	\$	(28,905.59)				
25	Nov-16	11.160047%	Dec-16	Jan-17	\$	424,977.47	Feb-17	\$	276,941.27	\$	(79,369.24)	\$	345,608.23	\$	(79,369.24)				
26	Dec-16	10.468919%	Jan-17	Feb-17	\$	381,401.58	Mar-17	\$	320,741.32	\$	24,866.91	\$	406,268.49	\$	24,866.91				
27	Jan-17	8.270652%	Feb-17	Mar-17	\$	242,966.79	Apr-17	\$	335,431.59	\$	70,836.90	\$	313,803.69	\$	70,836.90				
28	Feb-17	5.975337%	Mar-17	Apr-17	\$	185,275.41	May-17	\$	311,174.02	\$	2,629.67	\$	187,905.08	\$	2,629.67				
29	Mar-17	7.230358%	Apr-17	May-17	\$	152,489.50	Jun-17	\$	147,829.29	\$	40,075.79	\$	192,565.29	\$	40,075.79				
30	Apr-17	7.657515%	May-17	Jun-17	\$	181,050.93	Jul-17	\$	209,530.18	\$	(16,964.89)	\$	164,086.04	\$	(16,964.89)				
31	May-17	10.008978%	Jun-17	Jul-17	\$	285,414.89	Aug-17	\$	190,518.97	\$	(26,432.93)	\$	258,981.96	\$	(26,432.93)				
32	Jun-17	10.875093%	Jul-17	Aug-17	\$	371,196.10	Sep-17	\$	299,468.40	\$	(40,486.44)	\$	330,709.66	\$	(40,486.44)				
33	Jul-17	8.601289%	Aug-17	Sep-17	\$	260,586.21	Oct-17	\$	297,171.11	\$	33,538.55	\$	294,124.76	\$	33,538.55				

Case No. 2017-00345

Attachment 3 of 5 for Response to Staff Item 2

Witness: Nicholas R. Castlen

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Six-Month and Two-Year Environmental Surchage Review

1				JACKSON PU	RCH	HASE ENERGY COR	PORATION (JP	EC)	
2						DELIVERY POINT			,	
3	(a)	(b)	(c)	(d)		(e)	(f)		(g)	(h)
4	Big Rivers'	Big Rivers' ES			Big Rivers'					JPEC's Monthly (Over)/Under
5	Expense	Factor Based on	Big Rivers'	Month Billed	I	nvoice ES Amount	Month Billed		ES Amount Billed	Recovery
6	Month	Expense Month	Service Month	by Big Rivers	fo	r the Service Month	by JPEC		to JPEC's Customers	[column (e) less column (g)]
7	Jun-15	5.679481%	Jul-15	Aug-15	\$	2,354.00	Aug-15	\$	2,354.00	\$ -
8	Jul-15	6.804097%	Aug-15	Sep-15	\$	2,454.21	Sep-15	\$	2,454.21	\$ -
9	Aug-15	5.460801%	Sep-15	Oct-15	\$	1,660.96	Oct-15	\$	1,660.96	\$ -
10	Sep-15	5.283586%	Oct-15	Nov-15	\$	1,620.08	Nov-15	\$	1,620.08	\$ -
11	Oct-15	4.348044%	Nov-15	Dec-15	\$	1,681.15	Dec-15	\$	1,681.15	\$ -
12	Nov-15	6.356274%	Dec-15	Jan-16	\$	2,133.99	Jan-16	\$	2,133.99	\$ -
13	Dec-15	7.049024%	Jan-16	Feb-16	\$	2,207.11	Feb-16	\$	2,207.11	\$ -
14	Jan-16	6.599949%	Feb-16	Mar-16	\$	2,271.71	Mar-16	\$	2,271.71	\$ -
15	Feb-16	5.702876%	Mar-16	Apr-16	\$	1,873.70	Apr-16	\$	1,873.70	\$ -
16	Mar-16	7.165957%	Apr-16	May-16	\$	2,638.34	May-16	\$	2,638.34	\$ -
17	Apr-16	8.270091%	May-16	Jun-16	\$	5,104.43	Jun-16	\$	5,104.43	\$ -
18	May-16	8.232757%	Jun-16	Jul-16	\$	3,383.89	Jul-16	\$	3,383.89	\$ -
19	Jun-16	10.442367%	Jul-16	Aug-16	\$	6,822.16	Aug-16	\$	6,822.16	\$ -
20	Jul-16	8.331344%	Aug-16	Sep-16	\$	5,436.70	Sep-16	\$	5,436.70	\$ -
21	Aug-16	7.497336%	Sep-16	Oct-16	\$	2,596.51	Oct-16	\$	2,596.51	\$ -
22	Sep-16	6.630926%	Oct-16	Nov-16	\$	2,666.62	Nov-16	\$	2,666.62	\$ -
23	Oct-16	8.009330%	Nov-16	Dec-16	\$	3,611.91	Dec-16	\$	3,611.91	\$ -
24	Nov-16	11.160047%	Dec-16	Jan-17	\$	8,420.18	Jan-17	\$	8,420.18	\$ -
25	Dec-16	10.468919%	Jan-17	Feb-17	\$	5,854.23	Feb-17	\$	5,854.23	\$ -
26	Jan-17	8.270652%	Feb-17	Mar-17	\$	3,250.26	Mar-17	\$	3,250.26	\$ -
27	Feb-17	5.975337%	Mar-17	Apr-17	\$	2,016.47	Apr-17	\$	2,016.47	\$ -
28	Mar-17	7.230358%	Apr-17	May-17	\$	3,007.93	May-17	\$	3,007.93	\$ -
29	Apr-17	7.657515%	May-17	Jun-17	\$	5,501.27	Jun-17	\$	5,501.27	\$ -
30	May-17	10.008978%	Jun-17	Jul-17	\$	3,809.20	Jul-17	\$	3,809.20	\$ -
31	Jun-17	10.875093%	Jul-17	Aug-17	\$	6,127.43	Aug-17	\$	6,127.43	\$ -
32	Jul-17	8.601289%	Aug-17	Sep-17	\$	3,166.12	Sep-17	\$	3,166.12	\$ -
			1		I			ı		

Case No. 2017-00345

Attachment (4 of 5) for Response to Staff's First Request Item 2

Witness: Nicholas R. Castlen

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Six-Month and Two-Year Environmental Surcharge Review

1						KENERGY CORP.					
2		4.5			TE	D DELIVERY POINT			()		(1)
3	(a)	(b)	(c)	(d)	_	(e)	(f)	_	(g)		(h)
4	Big Rivers'	Big Rivers' ES				Big Rivers'					Kenergy's Monthly
5	Expense	Factor Based on	Big Rivers'	Month Billed		Invoice ES Amount	Month Billed		ES Amount Billed	- 20	Over)/Under Recovery
6	Month	Expense Month	Service Month	by Big Rivers	-	for the Service Month	by Kenergy	_	Kenergy's Customers		ımn (e) less column (g)]
7	Jun-15	5.679481%	Jul-15	Aug-15	\$	227,719.26	Aug-15	\$	227,719.26	\$	-
8	Jul-15	6.804097%	Aug-15	Sep-15	\$	280,924.26	Sep-15	\$	280,924.26	\$	- :
9	Aug-15	5.460801%	Sep-15	Oct-15	\$	221,312.77	Oct-15	\$	221,312.77	\$	-
10	Sep-15	5.283586%	Oct-15	Nov-15	\$	255,325.14	Nov-15	\$	255,325.14	\$	-
11	Oct-15	4.348044%	Nov-15	Dec-15	\$	190,572.94	Dec-15	\$	190,572.94	\$	-
12	Nov-15	6.356274%	Dec-15	Jan-16	\$	281,279.40	Jan-16	\$	281,279.40	\$	-
13	Dec-15	7.049024%	Jan-16	Feb-16	\$	326,366.40	Feb-16	\$	326,366.40	\$	-
14	Jan-16	6.599949%	Feb-16	Mar-16	\$	293,358.47	Mar-16	\$	293,358.47	\$	-
15	Feb-16	5.702876%	Mar-16	Apr-16	\$	258,890.38	Apr-16	\$	258,890.38	\$	-
16	Mar-16	7.165957%	Apr-16	May-16	\$	314,704.05	May-16	\$	314,704.05	\$	-
17	Apr-16	8.270091%	May-16	Jun-16	\$	351,371.11	Jun-16	\$	351,371.11	\$	-
18	May-16	8.232757%	Jun-16	Jul-16	\$	354,669.33	Jul-16	\$	354,669.33	\$	-
19	Jun-16	10.442367%	Jul-16	Aug-16	\$	463,673.76	Aug-16	\$	463,673.76	\$	-
20	Jul-16	8.331344%	Aug-16	Sep-16	\$	375,745.12	Sep-16	\$	375,745.12	\$	-
21	Aug-16	7.497336%	Sep-16	Oct-16	\$	332,121.49	Oct-16	\$	332,121.49	\$	-
22	Sep-16	6.630926%	Oct-16	Nov-16	\$	289,670.13	Nov-16	\$	289,670.13	\$	-
23	Oct-16	8.009330%	Nov-16	Dec-16	\$	369,264.38	Dec-16	\$	369,264.38	\$	-
24	Nov-16	11.160047%	Dec-16	Jan-17	\$	487,769.33	Jan-17	\$	487,769.33	\$	-
25	Dec-16	10.468919%	Jan-17	Feb-17	\$	493,657.45	Feb-17	\$	493,657.45	\$	-
26	Jan-17	8.270652%	Feb-17	Mar-17	\$	367,067.00	Mar-17	\$	367,067.00	\$	-
27	Feb-17	5.975337%	Mar-17	Apr-17	\$	282,333.22	Apr-17	\$	282,333.22	\$	-
28	Mar-17	7.230358%	Apr-17	May-17	\$	323,257.68	May-17	\$	323,257.68	\$	-
29	Apr-17	7.657515%	May-17	Jun-17	\$	349,128.48	Jun-17	\$	349,128.48	\$	-
30	May-17	10.008978%	Jun-17	Jul-17	\$	447,392.52	Jul-17	\$	447,392.52	\$	-
31	Jun-17	10.875093%	Jul-17	Aug-17	\$	480,548.29	Aug-17	\$	480,548.29	\$	-
32	Jul-17	8.601289%	Aug-17	Sep-17	\$	398,519.51	Sep-17	\$	398,519.51	\$	-

Case No. 2017-00345

Attachment 5 of 5 for Response to Staff Item 2

Witness: Nicholas R. Castlen

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AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS ELECTRIC CORPORATION FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017, FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017 AND THE PASS THROUGH MECHANISM OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES CASE NO. 2017-00345

> Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

1	Item 3) R	Refer to Form 2.5, Operating and Maintenance Expenses, for the
2	six-month re	view period and the last six expense months in the two-year
3	review period	d. For each of the expense line items listed on this schedule,
4	explain the 1	reason(s) for any change in the expense levels from month to
5	month if that	t change is greater than plus or minus 10 percent.
6		
7	Response)	Please see the attached schedules, Attachment A and Attachment
8	B, for the mon	thly Operating and Maintenance ("O&M") expenses from Form 2.50
9	and the reque	sted variance explanations for the six-month review period and the
10	last six expens	se months in the two-year review period, respectively.
11		
12		
13	Witnesses) N	Vicholas R. Castlen (Schedules of O&M Expenses) and
14	R	Conald D. Gregory (Reason(s) for Changes in Expense Levels)
15		

Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred June 1, 2016 through November 30, 2016

NOx Plan:													
			Jun-16 vs. May-16		Jul-16 vs. Jun-16		Aug-16 vs. Jul-16		Sep-16 vs. Aug-16		Oct-16 vs. Sep-16		Nov-16 vs. Oct-16
Expense Month	May-16	Jun-16	% Change	Jul-16	% Change	Aug-16	% Change	Sep-16	% Change	Oct-16	% Change	Nov-16	% Change
NOx Plan													
Anhydrous Ammonia	\$ 108,949	\$ 70,378	-35%	\$ 64,881	-8%	\$ 95,584	47%	\$ 63,395	-34%	\$ 58,057	-8%	\$ 100,508	73%
Emulaified Sulfur for NOv	200		Mata 1		Mate 1		Mate 1		Mate 1		Mata 1		Mata 1

		4		+ 0.,001	0.7.0	+,	.,,,	4 00,010		4 00,001		4,	
SO2 Plan:													
			Jun-16 vs.		Jul-16 vs.		Aug-16 vs.		Sep-16 vs.		Oct-16 vs.		Nov-16 vs.
			May-16		Jun-16		Jul-16		Aug-16		Sep-16		Oct-16
Expense Month	May-16	Jun-16	% Change	Jul-16	% Change	Aug-16	% Change	Sep-16	% Change	Oct-16	% Change	Nov-16	% Change
SO2 Plan Expenses:													
Disposal-Flyash/Bottom Ash/Sludge	\$ 533,749	\$ 522,333	-2%	\$ 529,185	1%	\$ 544,174	3%	\$ 364,182	-33%	\$ 605,030	66%	\$ 747,499	24%
(Note 2)	\$ 555,749	\$ 522,555	-2/0	\$ 529,165	1 70	\$ 344,174	370	\$ 304,182	-33/0	\$ 005,030	0076	\$ 747,499	2470
Fixation Lime	108,361	90,088	-17%	214,640	138%	243,353	13%	205,402	-16%	99,549	-52%	135,888	37%
Reagent-Limestone	163,644	177,125	8%	176,943	0%	194,289	10%	149,902	-23%	181,152	21%	185,618	2%
Reagent-Lime	778,840	820,919	5%	1,076,758	31%	1,054,441	-2%	921,003	-13%	778,165	-16%	901,589	16%
Emulsified Sulfur for SO2	17,931	18,754	5%	18,323	-2%	18,732	2%	12,422	-34%	12,239	-1%	18,544	52%
Reagent-DiBasic Acid	106,699	106,998	0%	124,470	16%	91,023	-27%	100,229	10%	99,961	0%	86,304	-14%
Reagent-Sodium BiSulfite for SO2	27,318	31,070	14%	25,767	-17%	34,378	33%	20,407	-41%	25,796	26%	30,365	18%
Total S02 Plan O&M Expenses	\$ 1,736,542	\$ 1,767,287	2%	\$ 2,166,086	23%	\$ 2,180,390	1%	\$ 1,773,547	-19%	\$ 1,801,892	2%	\$ 2,105,807	17%

Case No. 2017-00345 Attachment A for Response to Staff Item 3 Witnesses: Nicholas R. Castlen and Ronald D. Gregory Page 1 of 6

Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred June 1, 2016 through November 30, 2016

SO3	P	a	n	

Total

			Jun-16 vs.		Jul-16 vs.		Aug-16 vs.		Sep-16 vs.		Oct-16 vs.		Nov-16 vs.
			May-16		Jun-16		Jul-16		Aug-16		Sep-16		Oct-16
Expense Month	May-16	Jun-16	% Change	Jul-16	% Change	Aug-16	% Change	Sep-16	% Change	Oct-16	% Change	Nov-16	% Change
SO3 Plan Expenses:													
Hydrated Lime - SO3	\$ (2,390)	\$ -	-100%	\$ -	Note 1	\$ -	Note 1	\$ -	Note 1	\$ -	Note 1	\$ -	Note 1
Total S03 Plan O&M Expenses	\$ (2,390)	\$ -	-100%	\$ -	Note 1	\$ -	Note 1	\$ -	Note 1	\$ -	Note 1	\$ -	Note 1
2012 Plan:			Jun-16 vs.		Jul-16 vs.		Aug-16 vs.		Sep-16 vs.		Oct-16 vs.		Nov-16 vs.
			May-16		Jun-16		Jul-16		Aug-16		Sep-16		Oct-16
Expense Month	May-16	Jun-16	% Change	Jul-16	% Change	Aug-16	% Change	Sep-16	% Change	Oct-16	% Change	Nov-16	% Change
2012 Plan Expenses:													
Project 9 - Wilson Hg	\$ 80,963	\$ 104,154	29%	\$ 54,354	-48%	\$ 111,537	105%	\$ 84,411	-24%	\$ 81,516	-3%	\$ 116,145	42%
Project 10 - Green Hg	401,206	442,211	10%	622,318	41%	509,307	-18%	406,271	-20%	333,600	-18%	401,169	20%
Project 11 - HMP&L Hg	6,359	4,195	-34%	16,937	304%	6,689	-61%	4,670	-30%	8,805	89%	7,430	-16%
	0,339	7,175	3170	10,557		-,	207.0.7	.,	CONTRACTOR OF THE PROPERTY OF		120001100	11.9	

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

\$ 2,924,576

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 comparability.

\$ 2,903,507

\$ 2,332,294

\$ 2,283,870

\$ 2,731,059

Case No. 2017-00345

Attachment A for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

\$ 2,331,629 \$ 2,388,225

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred June 1, 2016 through November 30, 2016

Variance Explanations:

Anhydrous Ammonia:

Jun-16 vs. May-16	-35%	The decrease was due to low load operation at HMP&L that reduces ammonia requirement and timing of product delivery and invoicing at Wilson.
Aug-16 vs. Jul-16	47%	The increase was due to timing of product delivery and invoicing at Wilson.
Sep-16 vs. Aug-16	-34%	The decrease was due to timing of product delivery and invoicing at Wilson, along with 113 maintenance outage hours at Wilson in September.
Nov-16 vs. Oct-16	73%	The increase was due to timing of product delivery and invoicing at HMP&L, along with a 37% increase of generation at HMP&L in November.

Disposal-Flyash/Bottom Ash/ Sludge:

Sep-16 vs. Aug-16	-33%	The decrease was due to a \$175K true-up at HMP&L in September, which ended up with a negative balance for the month.
Oct-16 vs. Sep-16	66%	The increase was due to landfill cover costs paid to the landfill contractor at Wilson in October.
Nov-16 vs. Oct-16	140/0	The increase was due to increased generation and fuel burn, along with soil adjustment charges to landfill wall project and landfill capping charges at Green and HMP&L.

Fixation Lime:

Jun-16 vs. May-16	-17%	The decrease was due to variability in quantity of fixation lime added at Green and a change in HMP&L allocation.
Jul-16 vs. Jun-16	138%	The increase was due to variability in quantity of fixation lime added at Green associated with increased fuel burn for the month and a change in HMP&L allocation.
Aug-16 vs. Jul-16	31016,00000	The increase was due to variability in quantity of fixation lime added at Green associated with increased fuel burn for the month and at Wilson for operational needs to provide product suitable to satisfy landfill construction requirements. More fixation lime is required when the outer wall areas of the landfill.
Sep-16 vs. Aug-16	-16%	The decrease was due to variability in quantity of fixation lime added at Green and Wilson, associated with decreased fuel burn for the month and at Wilson for operational needs to provide product suitable to satisfy landfill construction requirements. More fixation lime is required when the outer wall areas of the landfill.
Oct-16 vs. Sep-16	-52%	The decrease was due to variability in quantity of fixation lime added at Green associated with decreased fuel burn for the month and at Wilson for operational needs to provide product suitable to satisfy landfill construction requirements. Less fixation lime is required when filling in interior areas of the landfill, away from the outer walls.
Nov-16 vs. Oct-16	37%	The increase was due to variability in quantity of fixation lime added at Green associated with increased fuel burn for Green and HMP&L for the month.

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Attachment A for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred June 1, 2016 through November 30, 2016

Variance Explanations (continued):

Reagent-Limestone:

Sep-16 vs. Aug-16	-23%	The decrease was due to 113 maintenance outage hours at Wilson in September.
Oct-16 vs. Sep-16	21%	The increase was due to 113 maintenance outage hours at Wilson in September.

Reagent-Lime:

Jul-16 vs. Jun-16	31%	The increase was due to a combination of increase generation and fuel burn and BREC's portion of the prior month being low, due to a change in HMP&L share calculation.
Sep-16 vs. Aug-16	-13%	The decrease was due to decrease in generation and fuel burn at Green.
Oct-16 vs. Sep-16	-16%	The decrease was due to decrease in generation and fuel burn at Green and HMP&L.
Nov-16 vs. Oct-16	16%	The increase was due to increase in generation and fuel burn at Green and HMP&L.

Emulsified Sulfur for SO2:

Sep-16 vs. Aug-16		Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to timing of product delivery and invoicing at HMP&L.
Nov-16 vs. Oct-16	570/0	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at HMP&L.

Reagent-Dibasic Acid:

Jul-16 vs. Jun-16	16%	The increase was due to timing of product delivery and invoicing at Wilson, along with 52 outage hours in June.
Aug-16 vs. Jul-16	-27%	The decrease was due to timing of product delivery and invoicing at Wilson.
Nov-16 vs. Oct-16	-14%	The decrease was due to timing of product delivery and invoicing at Wilson, along with 59 outage hours in November.

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Attachment A for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred June 1, 2016 through November 30, 2016

Variance Explanations (continued):

Reagent-Sodium BiSulfite for SO2:

Jun-16 vs. May-16	14%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at Wilson.
Jul-16 vs. Jun-16	-17%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to timing of product delivery and invoicing at Wilson.
Aug-16 vs. Jul-16	33%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at Wilson.
Sep-16 vs. Aug-16	-41%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to timing of product delivery and invoicing at Wilson.
Oct-16 vs. Sep-16	26%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at Wilson.
Nov-16 vs. Oct-16	18%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at Wilson.

Hydrated Lime - SO3:

Jun-16 vs. May-16	-100%	The decrease was due to the Hydrated Lime injection no longer being charged as SO3, since a new injection system was installed and in use for MATS compliance and provides SO3 reduction.
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Project 9 - Wilson Hg

Jun-16 vs. May-16	29%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.
Jul-16 vs. Jun-16	-48%	The decrease was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.
Aug-16 vs. Jul-16	105%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.
Sep-16 vs. Aug-16	-24%	The decrease was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.
Nov-16 vs. Oct-16	42%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.

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Attachment A for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred June 1, 2016 through November 30, 2016

Variance Explanations (continued):

Project 10 - Green Hg

Jul-16 vs. Jun-16	41%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.
Aug-16 vs. Jul-16	-18%	The decrease was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.
Sep-16 vs. Aug-16	-20%	The decrease was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.
Oct-16 vs. Sep-16	-18%	The decrease was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.
Nov-16 vs. Oct-16	20%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.

Project 11 - HMP&L Hg

Jun-16 vs. May-16	-34%	The decrease was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
Jul-16 vs. Jun-16	304%	The increase was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
Aug-16 vs. Jul-16	-61%	The decrease was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
Sep-16 vs. Aug-16	-30%	The decrease was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
Oct-16 vs. Sep-16	89%	The increase was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
Nov-16 vs. Oct-16	-16%	The decrease was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.

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Attachment A for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred December 1, 2016 through May 31, 2017

NOX	r	ıan	
			_

			Dec-16 v Nov-16	0.000		Jan-17 vs. Dec-16		Feb-17 vs. Jan-17		Mar-17 vs. Feb-17		Apr-17 vs. Mar-17			May-17 vs. Apr-17
Expense Month	Nov-16	Dec-16	% Chang	ge	Jan-17	% Change	Feb-17	% Change	Mar-17	% Change	Apr-17	% Change	1	May-17	% Change
NOx Plan															
Anhydrous Ammonia	\$ 100,508	\$ 84,80	1 -16%		\$ 54,828	-35%	\$ 43,262	-21%	\$ 90,962	110%	\$ 79,441	-13%	\$	74,871	-6%
Emulsified Sulfur for NOx	-		- Note 1		-	Note 1	-	Note 1	-	Note 1	-	Note 1		-	Note 1
Total NOx Plan O&M Expenses	\$ 100,508	\$ 84,80	1 -16%	\neg	\$ 54,828	-35%	\$ 43,262	-21%	\$ 90,962	110%	\$ 79,441	-13%	\$	74,871	-6%

SO2 Plan

SOZ FIAII.													
			Dec-16 vs. Nov-16		Jan-17 vs. Dec-16		Feb-17 vs. Jan-17		Mar-17 vs. Feb-17		Apr-17 vs. Mar-17		May-17 vs. Apr-17
Expense Month	Nov-16	Dec-16	% Change	Jan-17	% Change	Feb-17	% Change	Mar-17	% Change	Apr-17	% Change	May-17	% Change
SO2 Plan Expenses:													
Disposal-Flyash/Bottom Ash/Sludge (Note 2)	\$ 747,499	\$ 811,158	9%	\$ 539,804	-33%	\$ 286,661	-47%	\$ 348,214	21%	\$ 503,533	45%	\$ 561,983	12%
Fixation Lime	135,888	133,368	-2%	142,618	7%	82,108	-42%	85,193	4%	85,621	1%	112,145	31%
Reagent-Limestone	185,618	172,492	-7%	209,513	21%	111,156	-47%	138,861	25%	115,192	-17%	159,505	38%
Reagent-Lime	901,589	1,139,225	26%	1,096,184	-4%	444,548	-59%	539,367	21%	715,045	33%	878,776	23%
Emulsified Sulfur for SO2	18,544	18,560	0%	12,332	-34%	15,682	27%	6,031	-62%	18,838	212%	6,276	-67%
Reagent-DiBasic Acid	86,304	119,833	39%	101,231	-16%	70,992	-30%	86,800	22%	58,029	-33%	88,518	53%
Reagent-Sodium BiSulfite for SO2	30,365	30,807	1%	25,560	-17%	15,232	-40%	35,631	134%	26,218	-26%	30,444	16%
Total S02 Plan O&M Expenses	\$ 2,105,807	\$ 2,425,443	15%	\$ 2,127,242	-12%	\$ 1,026,379	-52%	\$ 1,240,097	21%	\$ 1,522,476	23%	\$ 1,837,647	21%

Case No. 2017-00345

Attachment B for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred December 1, 2016 through May 31, 2017

SO3 Plan:													
			Dec-16 vs.		Jan-17 vs.		Feb-17 vs.		Mar-17 vs.		Apr-17 vs.		May-17 vs.
			Nov-16		Dec-16		Jan-17		Feb-17		Mar-17		Apr-17
Expense Month	Nov-16	Dec-16	% Change	Jan-17	% Change	Feb-17	% Change	Mar-17	% Change	Apr-17	% Change	May-17	% Change
SO3 Plan Expenses:													
Hydrated Lime - SO3	\$ -	\$ -	Note 1										
Total S03 Plan O&M Expenses	\$ -	\$ -	Note 1										
2012 Plan:			Dec-16 vs. Nov-16		Jan-17 vs. Dec-16		Feb-17 vs. Jan-17		Mar-17 vs. Feb-17		Apr-17 vs. Mar-17		May-17 vs. Apr-17
Expense Month	Nov-16	Dec-16	% Change	Jan-17	% Change	Feb-17	% Change	Mar-17	% Change	Apr-17	% Change	May-17	% Change
2012 Plan Expenses:	1107 10	200 10	7.0 0 7.11.180	V. 17	70 011111190	100 17	70 Cimigo	171111 17	70 01111190	1101 17	70 011111190	111119 11	7.5 6785
Project 9 - Wilson Hg	\$ 116,145	\$ 71,790	-38%	\$ 104,659	46%	\$ 54,371	-48%	\$ 71,555	32%	\$ 82,847	16%	\$ 87,458	6%
Project 10 - Green Hg	401,169	490,719	22%	477,825	-3%	364,805	-24%	215,775	-41%	358,220	66%	418,500	17%
Project 11 - HMP&L Hg	7,430	4,695	-37%	9,581	104%	31,299	227%	30,188	-4%	22,463	-26%	2,253	-90%
Total 2012 Plan	\$ 524,744	\$ 567,204	8%	\$ 592,065	4%	\$ 450,475	-24%	\$ 317,518	-30%	\$ 463,530	46%	\$ 508,211	10%
Total	\$ 2,731,059	\$ 3,077,448		\$ 2,774,135		\$ 1,520,116		\$ 1,648,577		\$ 2,065,447	e e	\$ 2,420,729	•

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 comparability.

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Attachment B for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred December 1, 2016 through May 31, 2017

Variance Explanations:

Anhydrous Ammonia:

Dec-16 vs. Nov-16	-16%	The decrease was due to timing of product delivery and invoicing at Wilson.
Jan-17 vs. Dec-16	-35%	The decrease was due to low load operation at HMP&L that reduces ammonia requirement and timing of product delivery and invoicing at Wilson.
Feb-17 vs. Jan-17	-21%	The decrease was due to low load operation at HMP&L that reduces ammonia requirement.
Mar-17 vs. Feb-17	110%	The increase was due to timing of product delivery and invoicing at HMP&L, along with February outage and reserve standby hours at Wilson.
Apr-17 vs. Mar-17	-13%	The decrease was due to low load operation and timing of product delivery and invoicing at HMP&L.

Disposal-Flyash/Bottom Ash/ Sludge:

Jan-17 vs. Dec-16	-33%	The decrease was due to decreased generation and fuel burn at Green and HMP&L.
Feb-17 vs. Jan-17	-47%	The decrease was due to decreased generation and fuel burn at Green and HMP&L.
Mar-17 vs. Feb-17	21%	The increase was due to increased generation and fuel burn at Green and HMP&L.
Apr-17 vs. Mar-17	45%	The increase was due to increased generation and fuel burn at Green and the start of booking/accruing of true-up costs for landfill wall project.
May-17 vs. Apr-17	12%	The increase was due to increased generation and fuel burn at Green and April outage hours at Wilson.

Fixation Lime:

Feb-17 vs. Jan-17	-47%	The decrease was due to decreased generation and fuel burn at Green and HMP&L, along with February outage and reserve standby hours at Wilson.
May-17 vs. Apr-17	31%	The increase was due to increased generation and fuel burn at Green.

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Attachment B for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred December 1, 2016 through May 31, 2017

Variance Explanations (continued):

Reagent-Limestone:

Jan-17 vs. Dec-16	21%	The increase was due to timing of product delivery and invoicing at Wilson.
Feb-17 vs. Jan-17	-47%	The decrease was due to decreased generation and fuel burn from outage and reserve standby hours at Wilson in February.
Mar-17 vs. Feb-17	25%	The increase was due to increased generation and fuel burn in March after outage and reserve standby hours at Wilson in February.
Apr-17 vs. Mar-17	-17%	The decrease was due to timing of product delivery and invoicing at Wilson.
May-17 vs. Apr-17	38%	The increase was due to increased generation and fuel at Wilson.

Reagent-Lime:

Dec-16 vs. Nov-16	26%	The increase was due to increased generation and fuel burn at Green and HMP&L.
Feb-17 vs. Jan-17	-59%	The decrease was due to decreased generation and fuel burn at Green and HMP&L.
Mar-17 vs. Feb-17	21%	The increase was due to increased generation and fuel burn at Green and HMP&L.
Apr-17 vs. Mar-17	33%	The increase was due to increased generation and fuel burn at Green and HMP&L.
May-17 vs. Apr-17	23%	The increase was due to increased generation and fuel burn at Green.

Emulsified Sulfur for SO2:

Jan-17 vs. Dec-16	2/10/2	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to timing of product delivery and invoicing at HMP&L.
Feb-17 vs. Jan-17	77%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at HMP&L.
Mar-17 vs. Feb-17	-62%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to timing of product delivery and invoicing at HMP&L. No product delivered at HMP&L in March.
Apr-17 vs. Mar-17	212%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at HMP&L.
May-17 vs. Apr-17	-67%	Emulsified sulfur is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to timing of product delivery and invoicing at HMP&L and Wilson.

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Attachment B for Response to Staff Item 3

Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred December 1, 2016 through May 31, 2017

Variance Explanations (continued):

Reagent-Dibasic Acid:

Dec-16 vs. Nov-16	39%	The increase was due to timing of product delivery and invoicing at Wilson, along with November outage hours at Wilson.				
Jan-17 vs. Dec-16	-16%	The decrease was due to timing of product delivery and invoicing at Wilson.				
Feb-17 vs. Jan-17	-30%	The decrease was due to decreased generation and fuel burn from outage and reserve standby hours at Wilson in February.				
Mar-17 vs. Feb-17	22%	increase was due to increased generation and fuel burn in March after outage and reserve standby hours at Wilson in February.				
Apr-17 vs. Mar-17	-33%	The decrease was due to timing of product delivery and invoicing at Wilson.				
May-17 vs. Apr-17	53%	The increase was due to timing of product delivery and invoicing at Wilson.				

Reagent-Sodium BiSulfite for SO2:

Jan-17 vs. Dec-16		Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to timing of product delivery and invoicing at Wilson.
Feb-17 vs. Jan-17	-4()%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to decreased generation and fuel burn from outage and reserve standby hours at Wilson in February.
Mar-17 vs. Feb-17	134%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at Wilson, along with increased generation and fuel burn in March after outage and reserve standby hours at Wilson in February.
Apr-17 vs. Mar-17	-26%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The decrease was due to timing of product delivery and invoicing at Wilson.
May-17 vs. Apr-17	16%	Sodium BiSulfite is ordered on an as needed basis and added in batch based on scrubber chemistry. The increase was due to timing of product delivery and invoicing at Wilson.

Project 9 - Wilson Hg

Dec-16 vs. Nov-16	-38%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.
Jan-17 vs. Dec-16	46%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.
Feb-17 vs. Jan-17	-48%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.
Mar-17 vs. Feb-17	32%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.
Apr-17 vs. Mar-17	16%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime with operational conditions.

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Form 2.50 - Operating and Maintenance Expense Analysis Costs Incurred December 1, 2016 through May 31, 2017

Variance Explanations (continued):

Project 10 - Green Hg

Dec-16 vs. Nov-16	22%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.
Feb-17 vs. Jan-17	-24%	The decrease was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.
Mar-17 vs. Feb-17	-41%	The decrease was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.
Apr-17 vs. Mar-17	66%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.
May-17 vs. Apr-17	17%	The increase was due to timing of product delivery and invoicing and variability in usage of Hydrated Lime and Pulverized Activated Carbon with operational conditions.

Project 11 - HMP&L Hg

Dec-16 vs. Nov-16	-37%	The decrease was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
Jan-17 vs. Dec-16	104%	The increase was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
Feb-17 vs. Jan-17	227%	The increase was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
Apr-17 vs. Mar-17	-26%	The decrease was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.
May-17 vs. Apr-17	-90%	The decrease was due to variability in costs for trap analysis or stack testing, which are incurred on as needed basis for compliance monitoring.

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Witnesses: Nicholas R. Castlen and Ronald D. Gregory

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AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS ELECTRIC CORPORATION FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017, FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017 AND THE PASS THROUGH MECHANISM OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES CASE NO. 2017-00345

> Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

Item 4) Refer to Big Rivers' monthly environmental surcharge reports
for the six-month review period and the last six expense months in the two-
year review period. Provide the calculations and supporting data for the
rates of return included in each monthly environmental surcharge filing.
Provide all supporting calculations and documentation in Excel
spreadsheetformat,withformulasintactandunprotectedandallrowsand
columns fully accessible.
Response) Please see the attachment to this response for the calculations and
supporting data for the rates of return included in each monthly environmental
surcharge filing for the six-month review period and the last six expense months in
the two-year review period. These calculations are also provided in Excel
$spreadsheet\ format,\ with\ formulas\ intact\ and\ unprotected\ and\ all\ rows\ and\ columns$
accessible, on the CD accompanying these responses.
Witness) Nicholas R. Castlen

Calculation of Rate of Return on Environmental Compliance Rate Base For the Expense Months: June 2016 - May 2017

Calculat	ation of Monthly Rate of Return												
1	Expense Month		<u>Jun-16</u>		<u>Jul-16</u>	<u>Aug-16</u>		Sep-16		Oct-16		<u>Nov-16</u>	
2	Month-to-Date Interest Expense on Long-Term Debt:												
3	RUS - Series A Note	\$	383,559.54	\$	396,408.14	\$	396,410.24	\$	383,622.82	\$	396,472.13	\$ 383,689.12	
4	RUS - Series B Note	\$	746,911.31	\$	782,935.81	\$	782,935.81	\$	757,679.82	\$	794,347.74	\$ 768,723.62	
5	CoBank - Series 2012A Notes	\$	738,263.74	\$	755,022.37	\$	755,022.37	\$	730,666.83	\$	747,078.99	\$ 722,979.67	
6	CFC - Series 2012B Refinance Note	\$	923,148.37	\$	952,896.51	\$	952,912.49	\$	915,585.53	\$	945,334.23	\$ 915,585.54	
7	CFC - Series 2012B Equity Note	\$	169,547.36	\$	169,547.36	\$	169,547.35	\$	167,855.57	\$	167,855.57	\$ 167,855.56	
8	Series 2010A P.C. Bonds	\$	416,500.00	\$	416,500.00	\$	416,500.00	\$	416,500.00	\$	416,500.00	\$ 416,500.00	
9													
10	(a) Total Monthly Interest Expense on Long-Term Debt	\$	3,377,930.32	\$	3,473,310.19	\$	3,473,328.26	\$	3,371,910.57	\$	3,467,588.66	\$ 3,375,333.51	
11													
12	Total Outstanding Long-Term Debt (Beginning of Month)	\$	822,622,949.58	\$	822,768,506.56	\$	822,781,736.47	\$	819,474,802.89	\$	819,653,104.33	\$ 819,666,967.63	
13	Total Outstanding Long-Term Debt (End of Month)	\$	822,768,506.56	\$	822,781,736.47	\$	819,474,802.89	\$	819,653,104.33	\$	819,666,967.63	\$ 816,330,442.17	
14	(b) Average Outstanding Long-Term Debt during Month	\$	822,695,728.07	\$	822,775,121.52	\$	821,128,269.68	\$	819,563,953.61	\$	819,660,035.98	\$ 817,998,704.90	
15													
16	(c) Number of Days During Year		366		366		366		366		366	366	
17													
18	(d) Number of Days During Month		30		31		31		30		31	30	
19													
20	(e) Average Cost of Debt $[(a) \div (b)] \times [(c) \div (d)]$		5.01%		4.98%		4.99%		5.02%		4.99%	5.03%	
21													
22	(f) Applicable TIER ¹		1.24		1.24		1.24		1.24		1.24	1.24	
23	V												
24	(g) Rate of Return on Environmental Compliance Rate Base /(e	x (f)]	6.21%		6.18%		6.19%		6.22%		6.19%	6.24%	

¹ Applicable Times Interest Earned Ratio (TIER) for calculating the Rate of Return on Environmental Compliance Rate Base per Big Rivers' ES Tariff approved by Order of the Commission dated October 1, 2012, in Case No. 2012-00063.

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Calculation of Rate of Return on Environmental Compliance Rate Base For the Expense Months: June 2016 - May 2017

Calculation of Monthly Rate of Return

1		Expense Month		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	
2		Month-to-Date Interest Expense on Long-Term Debt:		-						
3		RUS - Series A Note	\$	396,478.77 \$	397,626.66 \$	359,152.64 \$	397,633.27 \$	384,865.57 \$	397,701.21	
4		RUS - Series B Note	\$	794,347.74 \$	808,134.02 \$	729,927.50 \$	808,134.02 \$	793,247.16 \$	819,688.73	
5		CoBank - Series 2012A Notes	\$	747,078.99 \$	739,041.28 \$	667,521.15 \$	738,782.00 \$	707,330.44 \$	730,908.12	
6		CFC - Series 2012B Refinance Note	\$	937,708.59 \$	937,708.59 \$	848,460.82 \$	930,019.13 \$	900,269.25 \$	930,019.19	
7		CFC - Series 2012B Equity Note	\$	166,141.14 \$	166,141.14 \$	166,141.15 \$	164,403.79 \$	164,403.79 \$	164,403.80	
8		Series 2010A P.C. Bonds	\$	416,500.00 \$	416,500.00 \$	416,500.00 \$	416,500.00 \$	416,500.00 \$	416,500.00	
9										
10	(a)	Total Monthly Interest Expense on Long-Term Debt	\$	3,458,255.23 \$	3,465,151.69 \$	3,187,703.26 \$	3,455,472.21 \$	3,366,616.21 \$	3,459,221.05	
11										
12		Total Outstanding Long-Term Debt (Beginning of Month)	\$	816,330,442.17 \$	816,517,136.27 \$	816,530,909.17 \$	813,164,517.58 \$	813,314,211.12 \$	813,327,918.51	
13		Total Outstanding Long-Term Debt (End of Month)	\$	816,517,136.27 \$	816,530,909.17 \$	813,164,517.58 \$	813,314,211.12 \$	813,327,918.51 \$	809,931,385.00	
14	<i>(b)</i>	Average Outstanding Long-Term Debt during Month	\$	816,423,789.22 \$	816,524,022.72 \$	814,847,713.38 \$	813,239,364.35 \$	813,321,064.82 \$	811,629,651.76	
15										
16	(c)	Number of Days During Year		366	365	365	365	365	365	
17										
18	(d)	Number of Days During Month	31		31	28	31	30	31	
19										
20	(e)	Average Cost of Debt $[(a) \div (b)] \times [(c) \div (d)]$		5.00%	5.00%	5.10%	5.00%	5.04%	5.02%	
21										
22	(1)	Applicable TIER ¹		1.24	1.24	1.24	1.24	1.24	1.24	
23										
24	(g)	Rate of Return on Environmental Compliance Rate Base [(e) x (f)]		6.20%	6.20%	6.32%	6.20%	6.25%	6.22%	
25										

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Case No. 2017-00345 Attachment for Response to Staff Item 4 Witness: Nicholas R. Castlen Page 2 of 2

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS ELECTRIC CORPORATION FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017, FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017 AND THE PASS THROUGH MECHANISM OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES CASE NO. 2017-00345

Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

1	Item 5)	RS 278.183(3) provides that during the two-year review, the
2	Commission	shall, to the extent appropriate, incorporate environmental
3	surcharge an	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 two-
8		year review? If so, provide the surcharge amount that Big
9		Rivers believes should be incorporated into its existing base
10		rates.
11	b.	For subpart a. above, explain how the surcharge amount
12		should be incorporated into the base rates, including all
13		supporting calculations, work papers, and assumptions as
14		well as any analysis that Big Rivers believes supports its
15		position. Provide all supporting schedules in Excel
16		spreadsheet format, with formulas intact and unprotected
17		and all rows and columns fully accessible.

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION OF THE ENVIRONMENTAL SURCHARGE MECHANISM OF BIG RIVERS ELECTRIC CORPORATION FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017. FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017 AND THE PASS THROUGH MECHANISM OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES CASE NO. 2017-00345

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October 6, 2017

1	c.	Provide the Base Environmental Surcharge Factor ("BESF")
2		that reflects all environmental surcharge amounts
3		previously incorporated into existing base rates and the
4		amount determined in subpart b. above. Include all
5		supporting calculations, work papers, and assumptions.
6		Provide all supporting schedules in Excel spreadsheet
7		format, with formulas intact and unprotected and all rows
8		and columns fully accessible.
9	d.	Does Big Rivers believe that there will need to be
10		modifications to either the surcharge mechanism or the
11		monthly surcharge reports, other than a revision to BESF, as
12		a result of incorporating environmental surcharge amounts
13		into Big Rivers' existing base rates? If so, provide a detailed
14		explanation of the modifications and provide updated
15		monthly surcharge reports.
16		
17	Response)	

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
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FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
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OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
CASE NO. 2017-00345

Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

1 Big Rivers does not believe any surcharge amounts need to be a. 2 incorporated into its base rates in conjunction with this two-year 3 environmental surcharge (ES) review. This position aligns with Big Rivers' Members' request that any amount appearing on the 4 5 ES line of a customer's billing statement represent a customer's total portion of his(her) environmental compliance charges, versus 6 having a portion of those charges embedded in Big Rivers' existing 7 base rates. 8 9 Commission Staff noted this position in its Informal 10 Conference (IC) Memo, dated March 23, 2016, in Case No. 2015-11 00320.1 In its Order dated May 31, 2016, in Case No. 2013-00320.2 12 the Commission noted that Big Rivers' position was reasonable at 13 the time of that Order. Big Rivers' Members' position is unchanged 14 from the earlier two-year review. Therefore, Big Rivers believes

¹ See 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 June 31, 2015 And The Pass Through Mechanism Of Its Three Member Distribution Cooperatives. IC Memo filed March 23, 2016.

² Ibid. Order dated May 31, 2016, page 7.

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
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OF BIG RIVERS ELECTRIC CORPORATION
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FOR THE TWO-YEAR BILLING PERIOD ENDING JULY 31, 2017
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1		this position remains reasonable and does not recommend any roll-
2		in into its base rates.
3	b.	Not Applicable.
4	c.	Not Applicable.
5	d.	Not Applicable.
6		
7		
8	Witnesses) Ro	oger D. Hickman (a. only) and
9	N	icholas R. Castlen (b., c., and d. only)
10		

AN EXAMINATION BY THE PUBLIC SERVICE COMMISSION
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FOR THE SIX-MONTH BILLING PERIOD ENDING JANUARY 31, 2017,
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OF ITS THREE MEMBER DISTRIBUTION COOPERATIVES
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Response to Commission Staff's First Request for Information dated September 15, 2017

October 6, 2017

1	Item 6)	Refer to Form 2.20, Inventories of Spare Parts and Limestone,
2	for the exp	pense month ending May 31, 2017. Confirm that the amounts
3	provided fo	or Wilson -Limestone Inventory are correct.
4		
5	Response)	Confirmed.
6		
7		
8	Witness)	Nicholas R. Castlen
0		