

Big Rivers Electric Corporation

Case No. 2015-00124

Calculation of Rate of Return on Environmental Compliance Rate Base

For the Expense Months: June 2014 - November 2014

Calculation of Monthly Rate of Return

	<u>Jun-14</u>	<u>Jul-14</u>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

Month-to-Date Interest Expense on Long-Term Debt:		
RUS - Series A Note	\$ 384,131.46	\$ 396,992.50
RUS - Series B Note	\$ 667,423.38	\$ 699,641.32
CoBank - Series 2012A Notes	\$ 795,915.98	\$ 815,303.80
CFC - Series 2012B Refinance Note	\$ 977,154.73	\$ 1,008,840.03
CFC - Series 2012B Equity Note	\$ 182,302.13	\$ 182,302.13
Series 2010A P.C. Bonds	\$ 416,500.00	\$ 416,500.00
(a) Total Monthly Interest Expense on Long-Term Debt	\$ 3,423,427.68	\$ 3,519,579.78
Total Outstanding Long-Term Debt (Beginning of Month)	\$ 847,041,236.67	\$ 847,136,737.26
Total Outstanding Long-Term Debt (End of Month)	\$ 847,136,737.26	\$ 847,148,549.66
(b) Average Outstanding Long-Term Debt during Month	\$ 847,088,986.97	\$ 847,142,643.46
(c) Number of Days During Year	365	365
(d) Number of Days During Month	30	31
(e) Average Cost of Debt [(a) ÷ (b)] x [(c) ÷ (d)]	4.92%	4.89%
(f) Applicable TIER ¹	1.24	1.24
(g) Rate of Return on Environmental Compliance Rate Base [(e) x (f)]	6.10%	6.06%

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

Big Rivers Electric Corporation

Case No. 2015-00124

Calculation of Rate of Return on Environmental Compliance Rate Base

For the Expense Months: June 2014 - November 2014

Calculation of Monthly Rate of Return

	<u>Aug-14</u>	<u>Sep-14</u>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

Month-to-Date Interest Expense on Long-Term Debt:		
RUS - Series A Note	\$ 396,994.39	\$ 384,188.12
RUS - Series B Note	\$ 699,641.31	\$ 677,072.24
CoBank - Series 2012A Notes	\$ 815,303.80	\$ 789,003.66
CFC - Series 2012B Refinance Note	\$ 1,008,618.91	\$ 970,597.96
CFC - Series 2012B Equity Note	\$ 182,302.12	\$ 180,780.93
<u>Series 2010A P.C. Bonds</u>	<u>\$ 416,500.00</u>	<u>\$ 416,500.00</u>
(a) Total Monthly Interest Expense on Long-Term Debt	\$ 3,519,360.53	\$ 3,418,142.91
Total Outstanding Long-Term Debt (Beginning of Month)	\$ 847,148,549.66	\$ 844,046,684.93
<u>Total Outstanding Long-Term Debt (End of Month)</u>	<u>\$ 844,046,684.93</u>	<u>\$ 844,171,115.80</u>
(b) Average Outstanding Long-Term Debt during Month	\$ 845,597,617.30	\$ 844,108,900.37
(c) Number of Days During Year	365	365
(d) Number of Days During Month	31	30
<u>(e) Average Cost of Debt [(a) ÷ (b)] x [(c) ÷ (d)]</u>	<u>4.90%</u>	<u>4.93%</u>
(f) Applicable TIER ¹	1.24	1.24
<u>(g) Rate of Return on Environmental Compliance Rate Base [(e) x (f)]</u>	<u>6.08%</u>	<u>6.11%</u>

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

Big Rivers Electric Corporation

Case No. 2015-00124

Calculation of Rate of Return on Environmental Compliance Rate Base

For the Expense Months: June 2014 - November 2014

Calculation of Monthly Rate of Return

	<u>Oct-14</u>	<u>Nov-14</u>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

Month-to-Date Interest Expense on Long-Term Debt:		
RUS - Series A Note	\$ 397,052.51	\$ 384,246.23
RUS - Series B Note	\$ 709,867.10	\$ 686,968.16
CoBank - Series 2012A Notes	\$ 808,076.26	\$ 782,009.28
CFC - Series 2012B Refinance Note	\$ 1,002,283.76	\$ 970,597.96
CFC - Series 2012B Equity Note	\$ 180,780.93	\$ 180,780.93
Series 2010A P.C. Bonds	\$ 416,500.00	\$ 416,500.00
(a) Total Monthly Interest Expense on Long-Term Debt	\$ 3,514,560.56	\$ 3,421,102.56
Total Outstanding Long-Term Debt (Beginning of Month)	\$ 844,171,115.80	\$ 844,183,231.77
Total Outstanding Long-Term Debt (End of Month)	\$ 844,183,231.77	\$ 841,055,408.32
(b) Average Outstanding Long-Term Debt during Month	\$ 844,177,173.79	\$ 842,619,320.05
(c) Number of Days During Year	365	365
(d) Number of Days During Month	31	30
(e) Average Cost of Debt [(a) ÷ (b)] x [(c) ÷ (d)]	4.90%	4.94%
(f) Applicable TIER ¹	1.24	1.24
(g) Rate of Return on Environmental Compliance Rate Base [(e) x (f)]	6.08%	6.13%

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