



RICHMOND POWER & LIGHT

www.RP-L.com

2000 U.S. 27 SOUTH
P.O. BOX 908
RICHMOND, INDIANA 47375-0908
(765) 973-7200 FAX (765) 973-7286

February 18, 2016

Via Electronic Filing – 30 Day Filings – Electric

Brenda A. Howe
Secretary of the Commission
Indiana Utility Regulatory Commission
101 West Washington St., Suite 1500 E
Indianapolis, IN 46204

RE: Richmond Power & Light 30 Day Filing Pursuant to 170 IAC 1-6-1 et seq.

Dear Ms. Howe:

Pursuant to 170 IAC 1-6-5, please find enclosed the following 30 Day Filing by Richmond Power & Light: 2nd Quarter ECA. The tariff sheets and work papers are attached. The purpose of this filing is to obtain approval from the Commission. This filing is necessary to allow Richmond Power & Light to recapture the actual costs of providing electricity. This filing is allowed under 170 IAC 1-6-3 for the following reasons: A filing for which the commission has already approved or accepted the procedure for the change.

The person at Richmond Power & Light to be contacted regarding this filing is:

Sandra Lambert
(765) 973-7200
2000 US 27 S, P.O. Box 908, Richmond, IN 47375-0908
sandral@rp-l.com

Affected customers have been notified as required under 170 IAC 1-6-6. Notice will be published in the Palladium Item on Friday February 19, 2016. Notice has been posted in a public place in the Richmond Power & Light customer service office. Notice has also been posted on the Richmond Power & Light website at <http://www.rp-l.com/>. A copy of the notice is attached.

I verify that notice has been provided as stated in this letter and that this letter and the attached documents are true and accurate to the best of my knowledge, information, and belief.

Sincerely,

Sandra Lambert
Finance Manager





2000 U.S. 27 SOUTH
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(765) 973-7200 FAX (765) 973-7286

February 15, 2016

Brad Borum
Indiana Utility Regulatory Commission
Electricity Division
PNC Center
101 West Washington Street
Suite 1500 East
Indianapolis, IN 46204-3407

TO THE INDIANA UTILITY REGULATORY COMMISSION:

1. Richmond Power & Light, 2000 U.S. 27 South, Richmond, Indiana, under and pursuant to the Public Service Commission Act, as amended, and Commission Order in Cause No. 36835-S3, hereby files with the Indiana Utility Regulatory Commission for its approval, an average increase in its schedule of rates for electricity sold in the amount of \$0.001790 per kilowatt-hour (KWH).
2. The accompanying changes in schedules of rates are based solely upon the changes in the cost of purchased power and energy, purchased by this utility computed in accordance with the Indiana Utility Regulatory Commission Order in Cause No. 36835-S3, dated December 13, 1989.
3. All of the matters and facts stated herein and in the attached exhibits are true and correct. If approved, this change of rate shall take effect for the bills to be rendered beginning with the April 2016 billing cycle.

City of Richmond, Indiana

Randall Baker
General Manager

RICHMOND POWER & LIGHT

Appendix A

Rate Adjustments

The Rate Adjustments shall be on the basis of a Purchase Power Cost Adjustment Tracking Factor occasioned solely by changes in the cost of purchased power and energy, in accordance with the Order of the Indiana Utility Regulatory Commission, approved December 13, 1989 in Cause No. 36835-S3, as follows:

Rate Adjustments applicable to the below listed Rate Schedules are as follows:

R	\$	0.041177	per KWH
CL	\$	0.062709	per KWH
GP, GEH and EHS	\$	0.040893	per KWH
LPS and IS	\$	12.435358	per KVA
	\$	14.640685	per KW
	\$	0.016305	per KWH
OL, M, and N	\$	0.016307	per KWH

April , May and June 2016

LEGAL AD

Notice is hereby given that the municipal electric utility of the City of Richmond, Indiana known as Richmond Power and Light, under and pursuant to the Public Service Commission Act, as amended, and Commission Order in Cause No. 36835-S3, has filed with the Indiana Utility Regulatory Commission for its approval in the Rate Adjustment factors listed below by Rate Schedules:

R	\$	0.041177	per KWH
CL	\$	0.062709	per KWH
GP, GEH, and EHS	\$	0.040893	per KWH
LPS and IS	\$	12.435358	per KVA
	\$	14.640685	per KW
	\$	0.016305	per KWH
OL, M, and N	\$	0.016307	per KWH

Rate adjustment changes are listed below by Rate Schedules:

R	decrease	\$	0.002527	per KWH
CL	decrease	\$	0.004945	per KWH
GP, GEH, and EHS	decrease	\$	0.001804	per KWH
LPS and IS	decrease	\$	0.044293	per KVA
	decrease	\$	0.052148	per KW
	increase	\$	0.000601	per KWH
OL, M, and N	increase	\$	0.000617	per KWH

The accompanying changes in schedules of rate are based solely upon the changes in the cost of purchased power and energy, purchased by this utility computed in accordance with the Public Service Commission of Indiana order in Cause No. 36835-S3, dated December 13, 1989.

If approved, this change of rate shall take effect for the bills to be rendered beginning with the April 2016 billing cycle.

Richmond Power and Light
City of Richmond, Indiana
Randy Baker, General Manager

Any objections can be made to either of the following:

Indiana Utility Regulatory Commission	Office of Utility Consumer Counselor
PNC Center	PNC Center
101 W. Washington Street	115 W. Washington Street
Suite 1500 East	Suite 1500 South
Indianapolis, IN 46204-3407	Indianapolis, IN 46204-3407



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February 15, 2016

Indiana Utility Regulatory Commission
Engineering Department
101 W Washington St
Indianapolis, IN 46204

Enclosed is Richmond Power and Light's percentage of line losses for the 12-month period ending December 31, 2015. We will use this percentage in our next filing of the Energy Cost Adjustment.

If you have any questions or need additional information, please call.

Sincerely,

Sandra Lambert
Finance Manager



Line Loss for 2015	KWH Available	KWH Billed	
January	86,167,161	82,781,887	82,781,887
February	81,669,042	77,510,299	77,510,299
March	80,196,710	79,564,743	79,564,743
April	63,962,186	66,361,201	66,361,201
May	65,320,072	60,749,995	60,749,995
June	74,956,272	69,361,761	69,361,761
July	79,840,164	75,720,339	75,720,339
August	79,183,648	78,473,385	78,473,385
September	73,821,523	72,773,604	72,773,604
October	71,298,504	68,305,433	68,305,433
November	69,675,522	65,132,606	65,132,606
December	<u>73,866,048</u>	68,977,013	<u>68,977,013</u>
Subtotal	899,956,852	865,712,266	865,712,266
Unmetered Sales		<u>10,114,775</u>	
Total	899,956,852	875,827,041	1,731,424,532
Percent of KWHS Billed to Purchased		0.973187813	
Percent x.986		0.959563184	
Line Loss Factor		2.6812187%	855,597,491
			49.42%

Line Loss for 2015

EXHIBIT A:

TYPE:	WATTAGE	AVERAGE NUMBER OF LAMPS	ANNUAL USAGE	TOTAL KWHS
Street Lighting:				
Sodium	70	107	381	40,813
	100	1,310	507	663,570
	150	993	717	712,446
	250	1,720	1,292	2,222,501
	400	163	2,465	401,719
Mercury	175	1,256	883	1,109,393
	250	760	1,246	947,107
	400	0	0	0
Halide	175	156	1,256	195,878
	400	63	1,903	119,869
SL<400W OH WOOD	<400	40	1,249	49,947
TOTAL STREET LIGHTING		6,568	984	6,463,243
Security Lighting				
Mercury	175	256	880	225,286
	250	163	1,244	202,839
	400	92	1,933	177,833
Sodium	100	432	492	212,694
	150	983	701	689,043
	250	298	1,244	370,739
Sodium Flood	250	46	1,249	57,467
	400	44	1,983	87,245
Metal Halide	250	17	1,198	20,371
	400	579	1,926	1,115,190
TOTAL SECURITY LIGHTING		2,910		3,158,707
Insight Communications/Cable TV				<u>492,825</u>
TOTAL UNMETERED SERVICE				10,114,775

CITY OF RICHMOND, INDIANA

DETERMINATION OF INCREMENTAL CHANGE IN BASE RATE

LINE NO.	DESCRIPTION			DEMAND RELATED	ENERGY RELATED	LINE NO.
1	BASE RATE EFFECTIVE	01-Jan-16	(a)	\$22.230	\$0.030525	1
2	BASE RATE EFFECTIVE	01-Apr-05	(b)	\$10.582	\$0.016552	2
3	INCREMENTAL CHANGE IN BASE RATE (c)			\$11.648	\$0.013973	3

(a) IMPA rate effective for the period covered by this filing. The Base Rate includes the applicable Area Adjustment and Delivery Voltage Adjustment.

(b) Base purchased power rate including Area and Voltage Adjustments effective at the time of the member's last approved rate case was filed or January 27, 1983, whichever is more recent.

(c) Line 1 - Line 2

CITY OF RICHMOND, INDIANA

ESTIMATION OF SAVINGS FROM DEDICATED CAPACITY PAYMENTS
FOR THE THREE MONTHS OF:

LINE NO.	DESCRIPTION	Apr-16	May-16	Jun-16	LINE NO.
		DEMAND RELATED			
1	ESTIMATED MONTHLY GENERATING COSTS (h)			\$0.00	1
2	LESS: MONTHLY GEN COSTS IN BASE RATES (i)			\$554,246.00	2
3	EST GENERATING COSTS IN TRACKER (a)			(\$554,246.00)	3
4	EST MONTHLY PAYMENT FROM IMPA (f)			\$0.00	4
5	LESS: MONTHLY PAYMENTS IN BASE RATES (g)			\$632,538.00	5
6	EST CAPACITY PAYMENTS IN TRACKER (b)			(\$632,538.00)	6
7	ESTIMATED MONTHLY COSTS/(SAVINGS) (c)			\$78,292.00	7
8	ESTIMATED AVERAGE MONTHLY KW (d)			125,994	8
9	ESTIMATED COSTS/(SAVINGS) PER KW (e)			\$0.621395	9

(a) Line 1 - Line 2

(b) Line 4 - Line 5

(c) Line 3 - Line 6 Times The Number Of Years Since Last Cost Of Service Study

(d) Exhibit III, Column E, Line 1

(e) Line 7 divided by Line 8

(f) Capacity Payments Forecasted By Indiana Municipal Power Agency

(g) Average capacity payments for 12 months ending March, 2004

(h) Estimated Generating Costs (see attachment)

(i) Average generating cost for 12 months ending March, 2004

CITY OF RICHMOND, INDIANA
ESTIMATION OF ENERGY COST ADJUSTMENT
FOR THE THREE MONTHS OF:

LINE NO.	DESCRIPTION	Apr-16	May-16	Jun-16	TOTAL	ESTIMATED 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)			
	PURCHASED POWER FROM IMPA						
1	KW DEMAND	114,907	120,647	142,427	377,981	125,994	1
2	KWH ENERGY	65,649,080	63,717,444	73,301,773	202,668,297	67,556,099	2
	INCREMENTAL PURCHASED POWER COSTS						
	DEMAND RELATED						
3	ECA FACTOR PER KW	0.038	0.038	0.038		0.038	3
4	CHARGE (a)	\$4,366.47	\$4,584.59	\$5,412.23	\$14,363.28	\$4,787.76	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH	0.001274	0.001274	0.001274		0.001274	5
6	CHARGE (b)	\$83,636.93	\$81,176.02	\$93,386.46	\$258,199.41	\$86,066.47	6

(a) Line 1 times Line 3

(b) Line 2 times Line 5

CITY OF RICHMOND, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE
THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR (%) (a)	KWH ENERGY ALLOCATOR (%) (a)	Apr-16	May-16	Jun-16			LINE NO.
				ALLOCATED ESTIMATED KW PURCHASED (b)	ALLOCATED ESTIMATED KWH PURCHASED (c)	INCREMENTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			
						DEMAND (d)	ENERGY (e)	TOTAL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)			
1	R	19.799%	18.909%	24,946.1	12,774,494	\$319,959.40	\$202,986.71	\$522,946.11	1
2	CL	7.209%	3.696%	9,083.4	2,496,904	\$116,503.77	\$39,675.81	\$156,179.58	2
3	GP, GEH & EHS	16.766%	16.180%	21,124.0	10,930,619	\$270,937.35	\$173,687.54	\$444,624.89	3
4	LPS, IS & TS	56.225%	59.932%	70,840.5	40,487,758	\$908,603.43	\$643,350.48	\$1,551,953.91	4
5	FLAT RATES	0.000%	1.282%	0.0	866,323	\$0.00	\$13,765.87	\$13,765.87	5
6	0	0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	6
7	0	0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	7
8	0	0.000%	0.000%	0.0	0	\$0.00	\$0.00	\$0.00	8
10	TOTAL	100.000%	100.000%	125,994.0	67,556,098	\$1,616,003.96	\$1,073,466.41	\$2,689,470.37	10

- (a) Taken From Demand & Energy Allocation factor study for the period ending March 31, 2004
- (b) Page 1 of 3, Column A, Line 8 times Page 2 of 3, Column A
- (c) Page 1 of 3, Column B, Line 8 times Page 2 of 3, Column B
- (d) Page 1 of 3, Column A, Line 9 times Page 2 of 3, Column A
- (e) Page 1 of 3, Column B, Line 9 times Page 2 of 3, Column B

CITY OF RICHMOND, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE
THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	PLUS VARIANCE (a)		TOTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			RATE ADJUSTMENT FACTOR PER KWH (d)			LINE NO.
		DEMAND	ENERGY	Apr-16	May-16	Jun-16	DEMAND	ENERGY	TOTAL	
				(b)	(c)	TOTAL				
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	
1	R	(\$2,291.21)	\$5,356.72	\$317,868.19	\$208,343.43	\$526,011.61	0.024867	0.016309	0.041177	1
2	CL	(\$654.51)	\$1,054.53	\$115,849.26	\$40,730.34	\$156,579.60	0.046397	0.016312	0.062709	2
3	GP, GEH & EHS	(\$2,172.27)	\$4,536.39	\$268,765.08	\$178,223.93	\$446,989.01	0.024588	0.016305	0.040893	3
4	LPS, IS & TS	\$128,550.00	\$16,799.15	\$1,037,153.43	\$660,149.63	\$1,697,303.06	0.025616	0.016305	0.041921 (f)	4
5	FLAT RATES	(\$0.02)	\$361.23	(\$0.02)	\$14,127.10	\$14,127.08	0.000000	0.016307	0.016307	5
6	0			\$0.00	\$0.00	\$0.00	0.000000	0.000000	0.000000	6
7	0			\$0.00	\$0.00	\$0.00	0.000000	0.000000	0.000000	7
8	0			\$0.00	\$0.00	\$0.00	0.000000	0.000000	0.000000	8
10	TOTAL	\$123,431.98	\$28,108.02	\$1,739,435.94	\$1,101,574.43	\$2,841,010.38	0.025748	0.016306	0.042054	10

(a) Exhibit IV, Page 4 of 7, Columns D and E divided by (1 - loss factor)(.986) =

0.959563184

(b) Page 2 of 3, Column E plus Page 3 of 3, Column A

(c) Page 2 of 3, Column F plus Page 3 of 3, Column B

(d) Page 3 of 3, Columns C, D and E divided by Page 2 of 3, Column D

(f) See Attachment (B)

CITY OF RICHMOND, INDIANA
RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF

LINE NO.	DESCRIPTION	Oct-15	Nov-15	Dec-15	LINE NO.
			DEMAND RELATED	ENERGY RELATED	
			(A)	(B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)		\$10.315	\$0.0142290	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)		\$0.640	--	2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)		\$0.087	\$0.0024600	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (d)		\$0.000	\$0.0000000	4
5	TOTAL RATE ADJUSTMENT (e)		\$11.042	\$0.0166890	5
6	ACTUAL AVERAGE BILLING UNITS (f)		122,364	71,613,358	6
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$1,351,122.36	\$1,195,155.33	7

(a) Attachment 1, Page 1 of 3, Line 1 of Tracker filing for the three months of:
Oct-15 Nov-15 Dec-15

(b) Exhibit IV, Page 5 of 7, Column E, Line 9
(c) Exhibit IV, Page 6 of 7, Column E, Lines 3 and 5
(d) Tracking Factor effective prior to January 27, 1983
From page 1 of 3, line 6 Tracker filing for the
three months of APRIL, MAY AND JUNE 2005

This line is zero if new rates have been approved since January 27, 1983.

(e) Sum of Lines 1 through 4
(f) Exhibit IV, Page 6 of 7, Column E, Lines 1 and 2
(g) Line 5 times Line 6

CITY OF RICHMOND, INDIANA
RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR (%) (a)	KWH ENERGY ALLOCATOR (%) (a)	Oct-15	Nov-15	Dec-15	INCREMENTAL CHANGE IN PURCHASED POWER COST			LINE NO.
				ALLOCATED ACTUAL KW PURCHASED (b)	ALLOCATED ACTUAL KWH PURCHASED (c)		DEMAND (d)	ENERGY (e)	TOTAL	
				(C)	(D)	(E)	(F)	(G)		
1	R	19.799%	18.909%	24,227.4	13,541,700		\$267,514.38	\$225,997.43	\$493,511.81	1
2	CL	7.209%	3.696%	8,821.7	2,646,862		\$97,407.46	\$44,173.49	\$141,580.95	2
3	GP, GEH & EHS	16.766%	16.180%	20,515.4	11,587,086		\$226,527.61	\$193,376.88	\$419,904.49	3
4	LPS, IS & TS	56.225%	59.932%	68,799.6	42,919,357		\$759,672.90	\$716,281.15	\$1,475,954.05	4
5	FLAT RATES	0.000%	1.282%	0.0	918,352		\$0.00	\$15,326.38	\$15,326.38	5
6		0.000%	0.000%	0.0	0		\$0.00	\$0.00	\$0.00	6
7		0.000%	0.000%	0.0	0		\$0.00	\$0.00	\$0.00	7
8		0.000%	0.000%	0.0	0		\$0.00	\$0.00	\$0.00	8
10	TOTAL	100.000%	100.000%	122,364.0	71,613,358		\$1,351,122.36	\$1,195,155.33	\$2,546,277.69	10

(a) Page 2 of 3, Columns A and B of tracker filed for the months of Oct-15
 (b) Exhibit IV, Page 6 of 7, Column E, Line 1 times Exhibit IV, Page 2 of 7, Column A
 (c) Exhibit IV, Page 6 of 7, Column E, Line 2 times Exhibit IV, Page 2 of 7, Column B
 (d) Exhibit IV, Page 1 of 7, Column A, Line 7 times Exhibit IV, Page 2 of 7, Column A
 (e) Exhibit IV, Page 1 of 7, Column B, Line 7 times Exhibit IV, Page 2 of 7, Column B

Oct-15 Nov-15 Dec-15

CITY OF RICHMOND, INDIANA

RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	ACTUAL AVERAGE KWH SALES (a)	ACTUAL AVERAGE KVA SALES (a)	Oct-15	Nov-15	Dec-15	INCREMENTAL KWH ENERGY COST BILLED BY MEMBER (e)	LESS PREVIOUS VARIANCE FOR MONTHS LISTED ABOVE		LINE NO.
				DEMAND ADJUSTMENT FACTOR PER KWH (b)	ENERGY ADJUSTMENT FACTOR PER KWH (c)	INCREMENTAL KW DEMAND COST BILLED BY MEMBER (d)		DEMAND (f)	ENERGY (g)	
		(A)	(A)	(B)	(C)	(D)	(E)	(F)	(G)	
1	R	12,924,269		0.022096	0.017434	\$281,576.60	\$222,167.20	\$11,863.66	\$1,309.88	1
2	CL	2,526,179		0.040958	0.017414	\$102,018.70	\$43,375.01	\$3,983.19	\$213.41	2
3	GP, GEH & EHS	11,058,776		0.021313	0.017354	\$232,395.95	\$189,227.20	\$3,783.91	\$203.28	3
4	LPS, IS & TS	40,962,459	68,800	11.891279	0.017407	\$806,661.08	\$703,051.05	\$170,340.03	\$2,889.75	4
5	FLAT RATES	876,480		0.000000	0.017390	\$0.00	\$15,028.60	(\$0.02)	\$48.84	5
6	0			0.000000	0.000000	\$0.00	\$0.00	\$0.00	\$0.00	6
7	0			0.000000	0.000000	\$0.00	\$0.00	\$0.00	\$0.00	7
8	0			0.000000	0.000000	\$0.00	\$0.00	\$0.00	\$0.00	8
10	TOTAL	68,348,163				\$1,422,652.33	\$1,172,849.07	\$189,970.77	\$4,665.16	10

(a) Exhibit IV, Page 7 of 7, Column E

(b) Page 3 of 3, Column F of Tracker Filing for the three months of:

Oct-15 Nov-15 Dec-15

(c) Page 3 of 3, Column G of Tracker Filing for the three months of:

Oct-15 Nov-15 Dec-15

(d) Column A times Column B times the Gross Income Tax Factor of:

0.986

(e) Column A times Column C times the Gross Income Tax Factor of:

0.986

(f) Exhibit IV, Page 4 of 7, Column D of Tracker Filing for the months of:

Oct-15 Nov-15 Dec-15

(g) Exhibit IV, Page 4 of 7, Column E of Tracker Filing for the months of:

Oct-15 Nov-15 Dec-15

CITY OF RICHMOND, INDIANA

RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	NET INCREMENTAL COST BILLED BY MEMBER			VARIANCE			LINE NO.
		DEMAND (a)	ENERGY (b)	TOTAL	DEMAND (c)	ENERGY (c)	TOTAL (c)	
		(A)	(B)	(C)	(D)	(E)	(F)	
1	R	\$269,712.94	\$220,857.32	\$490,570.26	(\$2,198.56)	\$5,140.11	\$2,941.55	1
2	CL	\$98,035.51	\$43,161.60	\$141,197.11	(\$628.05)	\$1,011.89	\$383.84	2
3	GP, GEH & EHS	\$228,612.04	\$189,023.92	\$417,635.97	(\$2,084.43)	\$4,352.96	\$2,268.52	3
4	LPS, IS & TS	\$636,321.05	\$700,161.30	\$1,336,482.35	\$123,351.85	\$16,119.85	\$139,471.70	4
5	FLAT RATES	\$0.02	\$14,979.76	\$14,979.78	(\$0.02)	\$346.62	\$346.60	5
6	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	6
7	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	7
8	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	8
10	TOTAL	\$1,232,681.56	\$1,168,183.91	\$2,400,865.47	\$118,440.79	\$26,971.42	\$145,412.21	10

(a) Column D minus Column F from Exhibit IV, page 3 of 7

(b) Column E minus Column G from Exhibit IV, Page 3 of 7

(c) Columns E, F, and G from Exhibit IV, Page 2 of 7 minus Columns A, B, and C

CITY OF RICHMOND, INDIANA

DETERMINATION OF ACTUAL DEDICATED CAPACITY PAYMENTS
FOR THE THREE MONTHS OF

LINE NO.	DESCRIPTION	Oct-15	Nov-15	Dec-15	TOTAL	AVERAGE	LINE NO.
		October	November	December			
		(A)	(B)	(C)	(D)	(E)	
1	ACTUAL MEMBER GENERATING COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	1
2	LESS: GENERATING COSTS IN BASE RATES	\$ 554,246.00	\$ 554,246.00	\$ 554,246.00	\$1,662,738.00	\$554,246.00	2
3	DIFFERENCE IN ACTUAL TO BASE RATE COSTS (a)	(\$554,246.00)	(\$554,246.00)	(\$554,246.00)	(\$1,662,738.00)	(\$554,246.00)	3
4	ACTUAL MONTHLY PAYMENT FROM IMPA	\$ -	\$ -	\$ -	\$0.00	\$0.00	4
5	LESS: ESTIMATED PAYMENT IN BASE RATES (f)	\$ 632,538.00	\$ 632,538.00	\$ 632,538.00	\$1,897,614.00	\$632,538.00	5
6	DIFFERENCE IN ACTUAL TO BASE RATE PAYMENT (b)	(\$632,538.00)	(\$632,538.00)	(\$632,538.00)	(\$1,897,614.00)	(\$632,538.00)	6
7	ACTUAL CAPACITY PAYMENT SAVINGS TO BE COLLECTED THROUGH THE TRACKER (c)	\$78,292.00	\$78,292.00	\$78,292.00	\$234,876.00	\$78,292.00	7
8	ACTUAL MONTHLY KW BILLED (d)	115,863	125,268	125,962	367,093	122,364	8
9	ACTUAL CAPACITY PAYMENT SAVINGS PER KW (e)	\$0.676	\$0.625	\$0.622		\$0.640	9

- (a) Line 1 minus Line 2
- (b) Line 4 minus Line 5
- (c) Line 3 minus Line 6
- (d) Exhibit IV, Page 6 of 7, Line 1
- (e) Line 7 divided by Line 8
- (f) Exhibit II, Line 5

CITY OF RICHMOND, INDIANA
DETERMINATION OF ACTUAL ENERGY COST ADJUSTMENT
FOR THE THREE MONTHS OF:

LINE NO.	DESCRIPTION	Oct-15	Nov-15	Dec-15	TOTAL	ACTUAL 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)			
PURCHASED POWER FROM IMPA							
1	KW DEMAND (a)	115,863	125,268	125,962	367,093	122,364	1
2	KWH ENERGY (a)	71,298,504	69,675,522	73,866,048	214,840,074	71,613,358	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW (a)	0.087	0.087	0.087		0.087	3
4	CHARGE (b)	\$10,080.08	\$10,898.32	\$10,958.69	\$31,937.09	\$10,645.70	4
ENERGY RELATED							
5	ECA FACTOR PER KWH (a)	0.002460	0.002460	0.002460		0.002460	5
6	CHARGE (c)	\$175,394.32	\$171,401.78	\$181,710.48	\$528,506.58	\$176,168.86	6

(a) From IMPA bills for the months of:
(b) Line 1 times Line 3
(c) Line 2 times Line 5

Oct-15

Nov-15

Dec-15

CITY OF RICHMOND, INDIANA

DETERMINATION OF ACTUAL AVERAGE KWH SALES
FOR THE THREE MONTHS OF:

LINE NO.	RATE SCHEDULE	Oct-15	Nov-15	Dec-15	TOTAL	AVERAGE	LINE NO.
		(A)	(B)	(C)			
1	R	10,926,180	12,160,910	15,685,718	38,772,808	12,924,269	1
2	CL	2,311,139	2,393,469	2,873,930	7,578,538	2,526,179	2
3	GP, GEH & EHS	11,338,816	10,765,289	11,072,223	33,176,328	11,058,776	3
4	LPS, IS & TS	43,729,298	39,812,938	39,345,142	122,887,378	40,962,459	4
5	FLAT RATES	844,982	864,830	919,629	2,629,441	876,480	5
6	0	0	0	0	0	0	6
7	0	0	0	0	0	0	7
8	0	0	0	0	0	0	8
10	TOTAL	69,150,415	65,997,436	69,896,642	205,044,493	68,348,163	10

DETERMINATION OF ACTUAL AVERAGE KVA SALES

LPS & IS	70,589	67,148	68,661	206,399	68,800
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CITY OF RICHMOND, INDIANA

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

Rate Tariffs		Average	Percent of	Rate Study		Rate Study	Adjusted	Adjusted
Code	Rate Schedule Name/Description	Sales	Total kWh	kWh Energy Factors	Variance	kW Demand Factors	Factors	kW Demand Allocators
		(A)	(B)	(C)	(D)	(E)	(F)	(G)
R	Residential Electric Service	12,924,269	18.909%	21.898%	-13.648%	22.955%	19.822%	19.799%
CL	Commercial Lighting Service	2,526,179	3.696%	4.005%	-7.714%	7.821%	7.218%	7.209%
GP, GEH & EHS	Gen Power, Gen Electric Heat & Electric Heat Schools	11,058,776	16.180%	8.904%	81.717%	9.237%	16.785%	16.766%
LPS, IS & TS	Large Power, Industrial Service & Transmission Service	40,962,459	59.932%	64.065%	-6.451%	59.987%	56.225%	56.225%
FLAT RATES	Outdoor Lighting, Street Lighting	876,480	1.282%	1.128%	1.282%	0.000%	0.000%	0.000%
0	0	0	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
0	0	0	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
0	0	0	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
	Sales	68,348,164	100.000%	100.000%		100.000%	100.050%	100.000%
	Purchases	71,613,358						
	Average Losses	4.6%						

(A) From utility billing records

(B) (A)/total of column (A)

(C) Taken from last cost of service study.

(D) Column (B)/Column (C)

(E) Taken from last cost of service study

(F) (1 + Column (D)) * (Column (E))

(G) Column (F)/total of Column (F)

10/1/2015 11/1/2015 12/1/2015

CITY OF RICHMOND, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR LPS & IS
FOR THE THREE MONTHS OF:

Apr-16

May-16

Jun-16

LINE
NO.

LINE NO.		Apr-16	May-16	Jun-16
-	Rates LPS, IS & TS			

	Demand Related Adjustment Factor			
1	From Page 3 of 3, Column C, Line 4		\$1,037,153.43	
2	From Page 2 of 3, Column C, Line 4		70,840.50 kW	
3	Line 1 divided by Line 2		14.640685 per KW	
4	Line 3 multiplied by 84.937%		12.435358	
5	Demand Related Rate Adjustment Factor		12.435358 per KVA	
	Rates LPS, IS & TS			

	Energy Related Adjustment Factor			
6	From Page 3 of 3, Column D, Line 4		\$660,149.63	
7	From Page 2 of 3, Column D, Line 4		40,487,758 KWH	
8	Line 6 divided by Line 7		\$0.016305	
9	Energy Related Adjustment Factor		\$0.016305 per KWH	

Energy Cost Adjustment (Revenue Report) KWH

	Oct-15	Nov-15	Dec-15
R - 44010	10,926,180	12,160,910	15,685,718
CWH - 44020			
K - 44030			
ASH - 44040			
CL - 44210	2,292,905	2,350,352	2,820,321
GP - 44220	10,907,035	10,345,582	10,570,217
IS - 44270	8,890,350	7,888,900	7,130,000
LPS - 44280	34,115,498	31,175,388	31,382,492
GEH - 44290	147,234	155,834	194,842
EH - 44250			
EHS - 44500	77,944	78,500	98,116
OL - 44260	253,424	273,108	269,851
FLAT - 44410 N	68,102	68,102	75,109
PARK OL - 4	0	0	0
PARK OL - 5	0	0	0
PARK OL - 6	0	0	0
PARK OL - 95	0	0	0
PARL OL - 94	0	0	0
PARK OL - 93	0	0	0
CL - 41	18,234	43,117	53,609
ST LIT - CITY M	523,456	523,620	574,669
GP - 44	86,624	89,888	110,299
GEH - 46	119,979	95,485	98,749
IS - IS	723,450	748,650	832,650
LPS - CITY	0	0	0
CITY BILLS	0	0	0
	69,150,415	65,997,436	69,896,642
BY RATE CLASS			
R	10,926,180	12,160,910	15,685,718
CL	2,311,139	2,393,469	2,873,930
GP, GEH, & EHS	11,338,816	10,765,289	11,072,223
LPS & IS	43,729,298	39,812,938	39,345,142
OL, M, & N	844,982	864,830	919,629
TOTAL	69,150,415	65,997,436	69,896,642
	69,150,415	65,997,436	69,896,642
LPS & IS Coincident kW	70,589	67,148	68,661
	68,305,433	65,132,606	68,977,013

CAPACITY COST REPORT		October 2015	November 2015	December 2015
UNIT FIXED COSTS				
Acct No.				
500	Supv and Engr - Operation	0.00	0.00	0.00
502	Steam Expenses	0.00	0.00	0.00
505	Electric Expenses	0.00	0.00	0.00
506	Misc Steam Power Expenses	0.00	0.00	0.00
511	Maint of Structures	0.00	0.00	0.00
	Payroll Taxes	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
(A)	TOTAL UNIT FIXED COSTS	0.00	0.00	0.00
UNIT VARIABLE COSTS				
509	SO2 Allowances	0.00	0.00	0.00
509.1	NOX Allowances	0.00	0.00	0.00
510	Supv and Engr - Maint	0.00	0.00	0.00
512	Maint of Boiler Plant	0.00	0.00	0.00
513	Maint of Electric Plant	0.00	0.00	0.00
514	Misc Steam Plant Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
(B)	TOTAL UNIT VARIABLE COSTS	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
TOTAL PRODUCTION COST		0.00	0.00	0.00
ADMN.& GENERAL COSTS(PRODUCTION RELATED)				
920	Admn and general salaries	133,030.77	139,254.91	220,147.64
921	Office supplies and expense	35,548.76	33,069.80	27,504.38
923	Outside services employed	4,814.96	14,862.18	27,317.00
925	Injuries and damages	42,532.53	25,464.77	30,555.90
926	Employee pension and benefits	178,578.51	160,261.68	214,764.57
928	Regulatory commission expenses	0.00	0.00	0.00
930	Misc general expense	(21.32)	(30.62)	2,780.55
931	Rents	0.00	0.00	0.00
932	Maint of general plant	34,116.88	40,465.92	49,090.66
933	Transportation	4,406.14	4,464.95	5,243.19
	Payroll taxes	<u>12,415.35</u>	<u>12,078.65</u>	<u>18,649.57</u>
	TOTAL ADMN AND GENERAL EXPENSES	445,422.58	429,892.24	596,053.46
PRR=		<u>0.000000</u>	<u>0.000000</u>	<u>0.000000</u>
(C)	PRODUCTION RELATED ADMN/GEN. EXPENSE	0.00	0.00	0.00
(D)	PLANT INSURANCE	0.00	0.00	0.00
(E)	DEBT SERVICE	0.00	0.00	0.00
AMORTIZATION AND INTEREST				
	Amortized capital	0.00	0.00	0.00
	Interest on capital	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
	Amortized Expenses on Unit #1 Scheduled Outage	0.00	0.00	0.00
	Interest on Expenses	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
(F)	<u>Total amortization</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
(G)	TOTAL MEMBER PRODUCTION COSTS	0.00	0.00	0.00

CITY OF RICHMOND, INDIANA

EXHIBIT V

DETERMINATION OF DEMAND RELATED AND ENERGY RELATED
COSTS INCLUDED IN TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983

LINE NO.	DESCRIPTION	DEMAND RELATED	ENERGY RELATED	TOTAL	LINE NO.
	<u>WHOLESALE POWER COSTS TRACKER</u>				
1	FERC DOCKET NOS. ER78-381 AND ER81-48 FILING DATED JULY 15, 1981.	(\$0.000241)	(\$0.000025)	(\$0.000266)	1
2	FERC DOCKET NO. ER82-555-000 FILING DATED AUGUST 3, 1982	\$0.001857	(\$0.000192)	\$0.001665	2
3	FERC DOCKET NO. ER82-555-000 FILING DATED NOVEMBER 18, 1982	\$0.001483	\$0.000000	\$0.001483	3
4	FERC DOCKET NO. ER82-555-000 FILING DATED JANUARY 3, 1983	(\$0.000964)	\$0.000130	(\$0.000834)	4
5	TOTAL WHOLESALE POWER COST TRACKER PER KWH - APPENDIX B, LINE 8 OF TRACKING FACTOR APPROVED ON JANUARY 27, 1983	\$0.002135	(\$0.000087)	\$0.002048	5
6	AVERAGE WEIGHTED FUEL COST CHARGE BILLED PER KWH - APPENDIX B, LINE 7 OF TRACKING FACTOR APPROVED ON JANUARY 27, 1983	\$0.000000	\$0.003597	\$0.003597	6
7	TOTAL PRESENT TRACKING FACTOR	\$0.002135	\$0.003510	\$0.005645	7

CITY OF RICHMOND
RICHMOND POWER & LIGHT

EXHIBIT V-A

DETERMINATION OF NET CAPACITY PURCHASE PAYMENTS
TWELVE MONTH PERIOD ENDED OCTOBER 31, 1982

LINE NO.	DESCRIPTION		LINE NO.
	PRODUCTION *		
1	FUEL	\$8,913,320.89	1
2	ALL OTHER PRODUCTION	\$0.00	2
3	OPERATING & MAINTENANCE	\$1,921,600.89	3
4	TOTAL PRODUCTION	<u>\$10,834,921.78</u>	4
5	ADMINISTRATIVE & GENERAL	\$505,382.69	5
6	PAYROLL RELATED TAXES	\$137,502.45	6
7	CONTRIBUTION IN LIEU OF PROPERTY TAXES	\$270,350.99	7
	DEPRECIATION		
8	PRODUCTION FACILITIES	\$838,266.48	8
9	GENERAL PLANT	\$25,858.39	9
10	TOTAL DEPRECIATION	<u>\$864,124.87</u>	10
11	TOTAL OPERATING REVENUE DEDUCTIONS	\$12,612,282.78	11
12	PROVISION FOR DEBT SERVICE	\$822,366.00	12
13	TOTAL COST	<u>\$13,434,648.78</u>	13
		CAPACITY PURCHASE PAYMENTS	
14	CAPACITY PAYMENT ** \$4.29 KW - MONTH X 93,400 KW X 12 MONTHS	\$4,808,232.00	14
15	FUEL PAYMENT \$.020093 KWH X 443,603,289 KWH	\$8,913,320.89	15
16	TOTAL PAYMENT	\$13,721,552.89	16
17	LESS TOTAL COST	<u>(\$13,434,648.78)</u>	17
18	TOTAL NET PAYMENT	\$286,904.11	18
		\$13,434,648.78	
		(\$8,913,320.89)	
		<u>(\$ 4,521,327.89)</u>	
	/ 12 = \$376,777.32		EXHIBIT II LINE 2)
	(\$4,802,232 / 12 = \$400,686.00		EXHIBIT II LINE 5)

* PRODUCTION EXPENSES FROM PAGE 1 OF NOTE A JANUARY 25, 1983 FILING

** CHANGED FROM \$4.94 OF PREVIOUS FILING TO \$4.29



IMPA
INDIANA MUNICIPAL POWER AGENCY

501.300

January 12, 2016

IMPA Board of Commissioners
Indiana Municipal Power Agency
11610 North College Avenue
Carmel, IN 46032

Dear Commissioner:

Enclosed are the estimated Energy Cost Adjustment factors for the second quarter (April, May and June) of 2016.

If you have any questions, please feel free to call Bev Matthews at (317) 428-6715.

Sincerely,

INDIANA MUNICIPAL POWER AGENCY

Bev Matthews
Vice President, Rates & Billing

BM/cr

Enclosure

cc: Pat Callahan
Greg Guerrettaz, Financial Solutions
Jarrod Hall, O.W. Krohn & Associates
Keith Gimbel, Gimbel & Associates
Don Gruenemeyer, JS Sawvel
Alex D. Hilt, H.J.Umbaugh

**INDIANA MUNICIPAL POWER AGENCY
 ECA ESTIMATES FOR APRIL, MAY and JUNE
 2016 - 2ND QUARTER**

	APR	MAY	JUN	APR	MAY	JUN
	<u>\$/kW-month</u>			<u>\$/kWh</u>		
IMPA's Energy Cost Adjustment	0.038	0.038	0.038	0.001274	0.001274	0.001274
	<u>kW</u>			<u>kWh</u>		
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for RICHMOND	114,907	120,647	142,427	65,649,080	63,717,444	73,301,773



IMPA

INDIANA MUNICIPAL POWER AGENCY

Richmond Power & Light
P.O. Box 908
Richmond, IN 47374

Due Date:
12/16/15

Amount Due:
\$4,800,802.76

Invoice No: INV0005684
Invoice Date: 11/16/15

Billing Period: October 1 to 31, 2015

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	115,863	3,507	99.95%	10/07/15	1300	82.71%
CP Billing Demand:	115,863	3,507	99.95%	10/07/15	1300	82.71%
kvar at 97% PF:		29,038				
Reactive Demand:		-				

Energy	kWh
WWVS Net Gen:	-
Richmond 1:	19,684,275
Richmond 2:	30,067,758
Richmond Solar:	138,764
Northwest:	11,079,546
Treaty:	10,328,161
Total Energy:	71,298,504

History	Oct 2015	Oct 2014	2015 YTD
Max Demand (kW):	115,863	116,430	154,106
CP Demand (kW):	115,863	116,430	154,106
Energy (kWh):	71,298,504	72,518,824	756,415,282
CP Load Factor:	82.71%	83.72%	
HDD/CDD (Indianapolis):	258/14	335/9	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 /kW x	115,863	\$ 2,421,189.11
ECA Demand Charge:	\$ 0.087 /kW x	115,863	\$ 10,080.08
Total Demand Charges:			\$ 2,431,269.19
Base Energy Charge:	\$ 0.030781 /kWh x	71,298,504	\$ 2,194,639.25
ECA Energy Charge:	\$ 0.002460 /kWh x	71,298,504	\$ 175,394.32
Total Energy Charges:			\$ 2,370,033.57
Average Purchased Power Cost: 6.73 cents per kWh			Total Purchased Power Charges: \$ 4,801,302.76

Other Charges and Credits	
Adjustment - Lease payment for WWVS plant:	\$ (500.00)

NET AMOUNT DUE: \$ 4,800,802.76

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 12/16/15

Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757



IMPA

INDIANA MUNICIPAL POWER AGENCY

Richmond Power & Light
 P.O. Box 908
 Richmond, IN 47374

Due Date:
01/13/16

Amount Due:
\$4,944,207.74

Invoice No: INV0005773
 Invoice Date: 12/14/15

Billing Period: November 1 to 30, 2015

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	125,268	13,462	99.43%	11/23/15	900	77.25%
CP Billing Demand:	125,268	13,462	99.43%	11/23/15	900	77.25%
kvar at 97% PF:		31,395				
Reactive Demand:						

Energy	kWh
WWVS Net Gen:	-
Richmond 1:	26,575,325
Richmond 2:	26,173,986
Richmond Solar:	87,279
Northwest:	9,079,502
Treaty:	7,759,430
Total Energy:	69,675,522

History	Nov 2015	Nov 2014	2015 YTD
Max Demand (kW):	125,268	140,020	154,106
CP Demand (kW):	125,268	140,020	154,106
Energy (kWh):	69,675,522	76,100,585	826,090,804
CP Load Factor:	77.25%	75.49%	
HDD/CDD (Indianapolis):	509/4	865/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 /kW x	125,268	\$ 2,617,725.40
ECA Demand Charge:	\$ 0.087 /kW x	125,268	\$ 10,898.32
Total Demand Charges:			\$ 2,628,623.72
Base Energy Charge:	\$ 0.030781 /kWh x	69,675,522	\$ 2,144,682.24
ECA Energy Charge:	\$ 0.002460 /kWh x	69,675,522	\$ 171,401.78
Total Energy Charges:			\$ 2,316,084.02
Average Purchased Power Cost: 7.10 cents per kWh			Total Purchased Power Charges: \$ 4,944,707.74

Other Charges and Credits	
Adjustment - Lease payment for WWVS plant:	\$ (500.00)

NET AMOUNT DUE: \$ 4,944,207.74

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 01/13/16

Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
 Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757



IMPA

INDIANA MUNICIPAL POWER AGENCY

Richmond Power & Light
P.O. Box 908
Richmond, IN 47374

Due Date:
02/15/16

Amount Due:
\$5,098,067.90

Billing Period: December 1 to 31, 2015

Invoice No: INV0005854
Invoice Date: 01/14/16

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	125,962	(3,853)	99.95%	12/04/15	1000	78.82%
CP Billing Demand:	125,962	(3,853)	99.95%	12/04/15	1000	78.82%
kvar at 97% PF:		31,569				
Reactive Demand:		-				

Energy	kWh
WWVS Net Gen:	8,935,372
Richmond 1:	16,503,100
Richmond 2:	31,698,421
Richmond Solar:	39,776
Northwest:	10,832,409
Treaty:	5,856,970
Total Energy:	73,866,048

History	Dec 2015	Dec 2014	2015 YTD
Max Demand (kW):	125,962	133,860	154,106
CP Demand (kW):	125,962	133,860	154,106
Energy (kWh):	73,866,048	79,873,346	899,956,852
CP Load Factor:	78.82%	80.20%	
HDD/CDD (Indianapolis):	685/0	974/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 / kW x	125,962	\$ 2,632,227.91
ECA Demand Charge:	\$ 0.087 / kW x	125,962	\$ 10,958.69
Total Demand Charges:			\$ 2,643,186.60
Base Energy Charge:	\$ 0.030781 / kWh x	73,866,048	\$ 2,273,670.82
ECA Energy Charge:	\$ 0.002460 / kWh x	73,866,048	\$ 181,710.48
Total Energy Charges:			\$ 2,455,381.30
Average Purchased Power Cost: 6.90 cents per kWh			Total Purchased Power Charges: \$ 5,098,567.90

Other Charges and Credits	
Adjustment - Lease payment for WWVS plant:	\$ (500.00)

NET AMOUNT DUE: \$ 5,098,067.90

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 02/15/16
Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757

IMPA Delivery Point Details

Richmond Power & Light

Billing Period: December 1, 2015 to December 31, 2015

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at RICHMOND's Maximum Peak on 12/04/15 at 1000 EST				Demand at IMPA's Coincident Peak on 12/04/15 at 1000 EST			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	73,866,048						125,962	(3,853)	126,021	99.95%	125,962	(3,853)	126,021	99.95%
Richmond 1	16,503,100	12/01/15 at 0800 EST	41,925	4,025	42,118	99.54%	38,200	12,800	40,287	94.82%	38,200	12,800	40,287	94.82%
Richmond 2	31,698,421	12/15/15 at 0800 EST	70,972	(5,307)	71,170	99.72%	54,825	(7,371)	55,318	99.11%	54,825	(7,371)	55,318	99.11%
Richmond Solar	39,776	12/19/15 at 1100 EST	711	(124)	722	98.51%	46	(45)	64	71.48%	46	(45)	64	71.48%
Northwest	10,832,409	12/08/15 at 1100 EST	24,237	(7,515)	25,375	95.51%	20,624	(4,805)	21,176	97.39%	20,624	(4,805)	21,176	97.39%
Treaty	5,856,970	12/08/15 at 1100 EST	19,382	(7,701)	20,856	92.93%	12,734	(4,169)	13,399	95.04%	12,734	(4,169)	13,399	95.04%
WWVS Generation	10,377,074	-	-	-	-	-	-	-	-	-	-	-	-	-
WWVS House Power	(1,441,702)	-	-	-	-	-	(467)	(263)	536	87.13%	(467)	(263)	536	87.13%

IMPA Delivery Point Details

RICHMOND WWVS PLANT

Billing Period: December 1, 2015 to December 31, 2015

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at RICHMOND's Maximum Peak				Demand at IMPA's Coincident Peak			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	8,935,372						(467)	(263)	536	-87.13%	(467)	(263)	536	-87.13%
WWVS Gen1	3,561,961	12/09/15 at 1200 EST	34,339	5	34,339	100.00%	-	-	-	-	-	-	-	-
WWVS Gen2	6,815,113	12/02/15 at 1700 EST	63,672	1,248	63,684	99.98%	-	-	-	-	-	-	-	-
WWVS SO2MonitorHP	(431)	12/01/15 at 0200 EST	(1)	-	1	100.00%	(1)	-	1	100.00%	(1)	-	1	100.00%
WWVS PumpHouseHP	(10,796)	12/02/15 at 1600 EST	(154)	(112)	190	80.87%	(5)	-	5	100.00%	(5)	-	5	100.00%
WWVS LIFAC1HP	(29,457)	12/08/15 at 0900 EST	(73)	(14)	74	98.21%	(50)	(9)	51	98.42%	(50)	(9)	51	98.42%
WWVS LIFAC2HP	(2)	12/29/15 at 1000 EST	(2)	(4)	4	44.72%	-	(1)	1	-	-	(1)	1	-
WWVS LIFAC-TWRHP	(3,133)	12/07/15 at 1800 EST	(18)	(1)	18	99.85%	(2)	-	2	100.00%	(2)	-	2	100.00%
WWVS ZeroDischargeHP	(9,094)	12/10/15 at 1500 EST	(26)	(18)	32	82.22%	(23)	(17)	29	80.42%	(23)	(17)	29	80.42%
WWVS FirePump1HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WWVS FirePump2HP	(2,156)	12/04/15 at 0200 EST	(6)	(3)	7	89.44%	(4)	(2)	4	89.44%	(4)	(2)	4	89.44%
WWVS BaghouseHP	(174,887)	12/03/15 at 1400 EST	(1,105)	(642)	1,278	86.47%	(86)	(46)	98	88.18%	(86)	(46)	98	88.18%
WWVS G1HP1	(129,420)	12/02/15 at 1700 EST	(912)	(890)	1,274	71.57%	-	-	-	-	-	-	-	-
WWVS G1HP2	(301,875)	12/10/15 at 0900 EST	(1,566)	(1,036)	1,878	83.40%	(129)	(59)	142	90.94%	(129)	(59)	142	90.94%
WWVS G2HP1	(635,149)	12/03/15 at 1300 EST	(4,888)	(3,214)	5,850	83.56%	-	-	-	-	-	-	-	-
WWVS G2HP2	(145,302)	12/08/15 at 1100 EST	(1,644)	(1,575)	2,277	72.21%	(167)	(129)	211	79.14%	(167)	(129)	211	79.14%

REVENUE REPORT

October-15

	RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL				
		<u>10,926,180</u>	<u>\$ 1,207,141.42</u>	
	Total R 44010	10,926,180	\$ 1,207,141.42	
COMMERCIAL				
		<u>2,292,905</u>	<u>\$ 343,851.55</u>	
	Total CL 44210	2,292,905	\$ 343,851.55	
GENERAL POWER				
		<u>10,907,035</u>	<u>\$ 1,082,463.91</u>	<u>18,657</u>
	Total GP 44220	10,907,035	\$ 1,082,463.91	18,657
INDUSTRIAL POWER				
	IS -COIN	5,574,800	\$ 469,213.02	14,135
	IS	<u>3,315,550</u>	<u>\$ 271,247.03</u>	<u>6,236</u>
	Total IS 44270	8,890,350	\$ 740,460.05	20,371
LARGE POWER				
	LPS-COIN	26,828,792	\$ 2,174,366.50	53,123
	LPS	<u>7,286,706</u>	<u>\$ 695,527.18</u>	<u>18,301</u>
	Total LPS 44280	34,115,498	\$ 2,869,893.68	71,424
GENERAL ELECT HEAT				
		<u>147,234</u>	<u>\$ 14,716.79</u>	<u>44</u>
	Total GEH 44290	147,234	\$ 14,716.79	44
ELECTRIC HEAT SCHOOLS				
	43	<u>77,944</u>	<u>\$ 7,183.09</u>	<u>0</u>
	Total EHS 44500	77,944	\$ 7,183.09	0
RESIDENTIAL - OLS				
		<u>253,424</u>	<u>\$ 23,513.62</u>	
	Total OLS 44260	253,424	\$ 23,513.62	
FLAT RATE (237)				
	Rate 8 - N	27,596	\$ 5,889.40	
	Rate 39 - CATV	<u>40,506</u>	<u>\$ 6,563.41</u>	
	Total N 44410	68,102	\$ 12,452.81	
ACCOUNTS RECEIVABLE CONTROL				
	Total 14210	<u>67,678,672</u>	<u>\$ 6,301,676.92</u>	<u>110,452</u>

October-15

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	-13,960	\$ (567.47)	
PUBLIC BLDGS - CITY	44230	32,194	\$ 4,739.95	
CITY STREET LIGHTS				
Rate 7	44420	<u>523,456</u>	<u>\$ 67,557.86</u>	
	CITY - GP 44	86,624	\$ 9,436.43	0
	CITY - GEH 46	119,979	\$ 12,228.49	43
	Sanitation - IS	<u>723,450</u>	<u>\$ 53,580.77</u>	<u>1,516</u>
	44240	930,053	\$ 75,245.69	1,559
	CITY -14610	<u>1,471,743</u>	<u>\$ 146,976.03</u>	<u>1,559</u>
TOTAL ALL REC'V [14210+14610]		<u><u>69,150,415</u></u>	<u><u>\$ 6,448,652.95</u></u>	<u><u>112,055</u></u>
	PENALTIES 45000		\$ 40,560.02	
	SALES TAX 24170		\$ 187,047.66	
	WRITE OFFS 14400		\$ 48,222.41	
TOTAL OF ALL CHARGES		<u><u>69,150,415</u></u>	<u><u>\$ 6,724,483.04</u></u>	

REVENUE REPORT

November-15

	RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL				
		<u>12,160,910</u>	<u>\$ 1,316,979.65</u>	
	Total R 44010	12,160,910	\$ 1,316,979.65	
COMMERCIAL				
		<u>2,350,352</u>	<u>\$ 349,600.15</u>	<u>5</u>
	Total CL 44210	2,350,352	\$ 349,600.15	5
GENERAL POWER				
		<u>10,345,582</u>	<u>\$ 1,031,532.06</u>	<u>19,043</u>
	Total GP 44220	10,345,582	\$ 1,031,532.06	19,043
INDUSTRIAL POWER				
	IS -COIN	5,094,250	\$ 493,933.17	14,792
	IS	<u>2,794,650</u>	<u>\$ 247,289.25</u>	<u>6,062</u>
	Total IS 44270	7,888,900	\$ 741,222.42	20,854
LARGE POWER				
	LPS-COIN	24,005,500	\$ 1,927,441.49	52,391
	LPS	<u>7,169,888</u>	<u>\$ 689,891.03</u>	<u>18,287</u>
	Total LPS 44280	31,175,388	\$ 2,617,332.52	70,678
GENERAL ELECT HEAT				
		<u>155,834</u>	<u>\$ 15,759.88</u>	<u>45</u>
	Total GEH 44290	155,834	\$ 15,759.88	45
ELECTRIC HEAT SCHOOLS				
	43	<u>78,500</u>	<u>\$ 7,234.32</u>	<u>0</u>
	Total EHS 44500	78,500	\$ 7,234.32	0
RESIDENTIAL - OLS				
		<u>273,108</u>	<u>\$ 24,521.51</u>	
	Total OLS 44260	273,108	\$ 24,521.51	
FLAT RATE (237)				
	Rate 8 - N	27,596	\$ 5,934.10	
	Rate 39 - CATV	<u>40,506</u>	<u>\$ 6,563.41</u>	
	Total N 44410	68,102	\$ 12,497.51	
ACCOUNTS RECEIVABLE CONTROL				
	Total 14210	<u>64,496,676</u>	<u>\$ 6,116,680.02</u>	<u>110,575</u>

November-15

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	6,303	\$ 1,904.01	
PUBLIC BLDGS - CITY	44230	36,814	\$ 5,300.90	
CITY STREET LIGHTS				
Rate 7	44420	<u>523,620</u>	<u>\$ 68,560.71</u>	
	CITY - GP 44	89,888	\$ 9,495.10	0
	CITY - GEH 46	95,485	\$ 10,618.75	45
	Sanitation - IS	<u>748,650</u>	<u>\$ 57,808.22</u>	<u>1,416</u>
	44240	<u>934,023</u>	<u>\$ 77,922.07</u>	<u>1,461</u>
	CITY -14610	<u>1,500,760</u>	<u>\$ 153,687.69</u>	<u>1,461</u>
TOTAL ALL REC'V [14210+14610]		<u><u>65,997,436</u></u>	<u><u>\$ 6,270,367.71</u></u>	<u><u>112,086</u></u>
	PENALTIES 45000		\$ 32,759.35	
	SALES TAX 24170		\$ 192,383.91	
	WRITE OFFS 14400		\$ 19,229.35	
TOTAL OF ALL CHARGES		<u><u>65,997,436</u></u>	<u><u>\$ 6,514,740.32</u></u>	

REVENUE REPORT

December-15

	RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL				
		<u>15,685,718</u>	<u>\$ 1,623,599.37</u>	
	Total R 44010	15,685,718	\$ 1,623,599.37	
COMMERCIAL				
		<u>2,820,321</u>	<u>\$ 406,654.25</u>	<u>13</u>
	Total CL 44210	2,820,321	\$ 406,654.25	13
GENERAL POWER				
		<u>10,570,217</u>	<u>\$ 1,049,285.08</u>	<u>18,821</u>
	Total GP 44220	10,570,217	\$ 1,049,285.08	18,821
INDUSTRIAL POWER				
	IS -COIN	4,375,000	\$ 430,285.93	13,493
	IS	<u>2,755,000</u>	<u>\$ 227,149.43</u>	<u>5,070</u>
	Total IS 44270	7,130,000	\$ 657,435.36	18,563
LARGE POWER				
	LPS-COIN	24,286,548	\$ 2,007,098.87	52,008
	LPS	<u>7,095,944</u>	<u>\$ 686,227.74</u>	<u>18,240</u>
	Total LPS 44280	31,382,492	\$ 2,693,326.61	70,248
GENERAL ELECT HEAT				
		<u>194,842</u>	<u>\$ 19,863.69</u>	<u>47</u>
	Total GEH 44290	194,842	\$ 19,863.69	47
ELECTRIC HEAT SCHOOLS				
	43	<u>98,116</u>	<u>\$ 9,042.07</u>	<u>0</u>
	Total EHS 44500	98,116	\$ 9,042.07	0
RESIDENTIAL - OLS				
		<u>269,851</u>	<u>\$ 24,409.68</u>	
	Total OLS 44260	269,851	\$ 24,409.68	
FLAT RATE (237)				
	Rate 8 - N	30,356	\$ 5,953.23	
	Rate 39 - CATV	<u>44,753</u>	<u>\$ 7,483.49</u>	
	Total N 44410	75,109	\$ 13,436.72	
ACCOUNTS RECEIVABLE CONTROL				
	Total 14210	<u>68,226,666</u>	<u>\$ 6,497,052.83</u>	<u>107,632</u>

December-15

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	6,467	\$ 1,923.45	
PUBLIC BLDGS - CITY	44230	47,142	\$ 6,421.45	
CITY STREET LIGHTS				
Rate 7	44420	<u>574,669</u>	<u>\$ 68,861.33</u>	
	CITY - GP 44	110,299	\$ 11,401.07	0
	CITY - GEH 46	98,749	\$ 10,290.91	46
	Sanitation - IS	832,650	\$ 63,192.79	1,698
	44240	<u>1,041,698</u>	<u>\$ 84,884.77</u>	<u>1,744</u>
	CITY -14610	1,669,976	\$ 162,091.00	1,744
TOTAL ALL REC'V [14210+14610]		<u><u>69,896,642</u></u>	<u><u>\$ 6,659,143.83</u></u>	<u><u>109,436</u></u>
	PENALTIES 45000		\$ 45,671.82	
	SALES TAX 24170		\$ 219,826.00	
	WRITE OFFS 14400		\$ 16,314.05	
TOTAL OF ALL CHARGES		<u><u>69,896,642</u></u>	<u><u>\$ 6,940,955.70</u></u>	