

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

March 14, 2017

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

RECEIVED
MAR 20 2017
INDIANA UTILITY
REGULATORY COMMISSION

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 \$0.000741 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 2017 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	\$	0.041326	per KWH
CL	\$	0.065481	per KWH
GP, GEH and EHS	\$	0.041264	per KWH
LPS and IS	\$	13.399399	per KVA
	\$	15.775691	per KW
	\$	0.013405	per KWH
OL, M, and N	\$	0.013401	per KWH

April , May and June 2017

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	\$ 0.041326	per KWH
CL	\$ 0.065481	per KWH
GP, GEH, and EHS	\$ 0.041264	per KWH
LPS and IS	\$ 13.399399	per KVA
	\$ 15.775691	per KW
	\$ 0.013405	per KWH
OL, M, and N	\$ 0.013401	per KWH

Rate adjustment changes are listed below by Rate Schedules:

R	increase	\$ 0.000865	per KWH
CL	increase	\$ 0.000933	per KWH
GP, GEH, and EHS	increase	\$ 0.001301	per KWH
LPS and IS	decrease	\$ 0.232868	per KVA
	decrease	\$ 0.274166	per KW
	increase	\$ 0.000858	per KWH
OL, M, and N	increase	\$ 0.000850	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 2017 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
PNC Center
101 W. Washington Street
Suite 1500 East
Indianapolis, IN 46204-3407

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

STATE OF INDIANA)
) SS:
COUNTY OF WAYNE)

Randy Baker personally appeared before me, a Notary Public in and for said county and state, this March 14, 2017 , who, after having been duly sworn according to law, stated that he is an officer of the City of Richmond, Indiana, that he has read the matters and facts stated above, and in all exhibits attached hereto, and that the same are true; that he is duly authorized to execute this instrument for and on behalf of the applicant herein.

Bande D) Belen

Randall Baker, General Manager

Melissa M. McCombs

Melissa M. McCann, Notary Public

My Commission Expires: July 6, 2019

My County of Residence: Wayne



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

March 13, 2017

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, 2016. 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,

A handwritten signature in cursive script that reads 'Sandra Lambert'.

Sandra Lambert
Finance Manager



Line Loss for 2016	KWH Available	KWH Billed	
January	84,201,842	77,805,136	77,805,136
February	76,779,400	73,691,082	73,691,082
March	74,041,470	74,273,934	74,273,934
April	70,950,649	70,525,252	70,525,252
May	70,555,192	65,979,838	65,979,838
June	78,492,855	72,378,930	72,378,930
July	81,770,448	77,257,581	77,257,581
August	85,785,494	83,439,582	83,439,582
September	75,567,834	76,172,166	76,172,166
October	70,484,288	68,735,006	68,735,006
November	69,893,798	63,935,898	63,935,898
December	<u>80,693,374</u>	72,640,100	<u>72,640,100</u>
Subtotal	919,216,644	876,834,505	876,834,505
Unmetered Sales		<u>10,073,708</u>	
Total	919,216,644	886,908,213	1,753,669,010
Percent of KWHS Billed to Purchased		0.964852213	
Percent x.986		0.951344282	
Line Loss Factor		3.5147787%	866,760,797
			49.43%

Line Loss for 2016

EXHIBIT A:

TYPE:	WATTAGE	AVERAGE NUMBER OF LAMPS	ANNUAL USAGE	TOTAL KWHS
Street Lighting:				
Sodium	70	111	384	42,601
	100	1,438	506	727,860
	150	1,058	715	756,945
	250	1,745	1,291	2,252,380
	400	195	2,384	464,852
Mercury	175	1,138	883	1,004,997
	250	660	1,247	822,888
	400	0	0	0
Halide	175	159	1,248	198,401
	400	63	1,892	119,211
SL<400W OH WOOD	<400	40	1,249	49,947
TOTAL STREET LIGHTING		6,607	975	6,440,082
Security Lighting				
Mercury	175	233	880	204,950
	250	145	1,246	180,621
	400	77	1,936	149,089
Sodium	100	449	493	221,134
	150	1,008	699	704,482
	250	301	1,240	373,223
Sodium Flood	250	47	1,229	57,771
	400	43	2,010	86,434
Metal Halide	250	17	1,197	20,354
	400	592	1,922	1,137,865
TOTAL SECURITY LIGHTING		2,912		3,135,923
Insight Communications/Cable TV				<u>497,703</u>
TOTAL UNMETERED SERVICE				10,073,708

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-17	(a)	\$22.965	\$0.030565	1
2	BASE RATE EFFECTIVE	01-Apr-05	(b)	- \$10.582	\$0.016552	2
3	INCREMENTAL CHANGE IN BASE RATE (c)			\$12.383	\$0.014013	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:

Apr-17

May-17

Jun-17

LINE NO.	DESCRIPTION	DEMAND RELATED	LINE NO.
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)	133,706	8
9	ESTIMATED COSTS/(SAVINGS) PER KW (e)	\$0.585553	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-17	May-17	Jun-17	TOTAL	ESTIMATED 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)	(D)	(E)	
	PURCHASED POWER FROM IMPA						
1	KW DEMAND	122,055	130,021	149,042	401,118	133,706	1
2	KWH ENERGY	72,989,563	69,931,070	80,110,969	223,031,602	74,343,867	2
	INCREMENTAL PURCHASED POWER COSTS						
	DEMAND RELATED						
3	ECA FACTOR PER KW	0.416	0.416	0.416		0.416	3
4	CHARGE (a)	\$50,774.88	\$54,088.74	\$62,001.47	\$166,865.09	\$55,621.70	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH	(0.001775)	(0.001775)	(0.001775)		(0.001775)	5
6	CHARGE (b)	(\$129,556.47)	(\$124,127.65)	(\$142,196.97)	(\$395,881.09)	(\$131,960.36)	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

Apr-17

May-17

Jun-17

LINE NO.	DESCRIPTION	DEMAND RELATED	ENERGY RELATED	LINE NO.
		(A)	(B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)	\$12.383	\$0.014013	1
2	ESTIMATED SAVINGS (LOSS) FROM DEDICATED CAPACITY PAYMENTS (b)	\$0.585553	--	2
3	ESTIMATED PURCHASED POWER ENERGY COST ADJUSTMENT (c)	\$0.416000	-\$0.001775	3
4	ESTIMATED TOTAL CHANGE IN PURCHASED POWER RATE	\$13.384553	\$0.012238	4
5	EST CHANGE IN PURCHASED POWER RATE ADJ FOR LOSSES & GR INCOME TAX (d)	\$14.069095	\$0.012864	5
6	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (e)	\$0.000	\$0.000000	6
7	ESTIMATED TOTAL RATE ADJUSTMENT	\$14.069095	\$0.012864	7
8	ESTIMATED AVERAGE BILLING UNITS (f)	133,706	74,343,867	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)	\$1,881,122.42	\$956,359.51	9

(a) Exhibit I, Line 3

(b) Exhibit II, Line 9

(c) Exhibit III, Column E, Lines 3 and 5

(d) Line 4 divided by (1 - line loss factor)(0.986)

= 0.951344282

(e) Tracking Factor effective prior to January 27, 1983. This factor is zero if new rates have been filed and approved since January 27, 1983.

(f) Exhibit III, Column E, Lines 1 and 2

(g) Line 7 times Line 8

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-17	May-17	Jun-17			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	20.895%	18.974%	27,938.0	14,105,705	\$393,061.91	\$181,455.79	\$574,517.70	1
2	CL	7.774%	3.789%	10,394.3	2,817,132	\$146,237.99	\$36,239.58	\$182,477.57	2
3	GP, GEH & EHS	17.412%	15.977%	23,281.3	11,877,731	\$327,546.23	\$152,795.14	\$480,341.37	3
4	LPS, IS & TS	53.919%	60.020%	72,092.5	44,621,543	\$1,014,276.29	\$574,011.54	\$1,588,287.83	4
5	FLAT RATES	0.000%	1.240%	0.0	921,756	\$0.00	\$11,857.47	\$11,857.47	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%	133,706.1	74,343,867	\$1,881,122.42	\$956,359.51	\$2,837,481.93	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:

				Apr-17	May-17	Jun-17				
				TOTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			RATE ADJUSTMENT FACTOR PER KWH (d)			
LINE NO.	RATE SCHEDULE	PLUS VARIANCE (a)								LINE NO.
		DEMAND	ENERGY	DEMAND (b)	ENERGY (c)	TOTAL	DEMAND	ENERGY	TOTAL	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	
1	R	\$1,022.28	\$7,387.10	\$394,084.19	\$188,842.89	\$582,927.08	0.027938	0.013388	0.041326	1
2	CL	\$505.11	\$1,484.96	\$146,743.10	\$37,724.54	\$184,467.64	0.052090	0.013391	0.065481	2
3	GP, GEH & EHS	\$3,310.77	\$6,465.67	\$330,857.00	\$159,260.81	\$490,117.80	0.027855	0.013408	0.041264	3
4	LPS, IS & TS	\$123,032.71	\$24,156.51	\$1,137,309.00	\$598,168.05	\$1,735,477.05	0.025488	0.013405	0.038893	(f) 4
5	FLAT RATES	(\$0.02)	\$495.21	(\$0.02)	\$12,352.68	\$12,352.66	0.000000	0.013401	0.013401	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	\$127,870.84	\$39,989.45	\$2,008,993.26	\$996,348.96	\$3,005,342.23	0.027023	0.013402	0.040425	10

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

0.951344282

(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-16	Nov-16	Dec-16	LINE NO.
			DEMAND RELATED	ENERGY RELATED	
			(A)	(B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)		\$11.648	\$0.0139730	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)		\$0.604	--	2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)		\$0.038	\$0.0012740	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (d)		\$0.000	\$0.0000000	4
5	TOTAL RATE ADJUSTMENT (e)		\$12.290	\$0.0152470	5
6	ACTUAL AVERAGE BILLING UNITS (f)		129,719	73,690,487	6
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$1,594,188.27	\$1,123,558.86	7

(a) Attachment 1, Page 1 of 3, Line 1 of Tracker filing for the three months of:
Oct-16 Nov-16 Dec-16

(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-16	Nov-16	Dec-16	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	20.895%	18.974%	27,104.9	13,981,735	\$333,106.81	\$213,179.52	\$546,286.33		1
2	CL	7.774%	3.789%	10,084.3	2,792,373	\$123,931.80	\$42,575.31	\$166,507.11		2
3	GP, GEH & EHS	17.412%	15.977%	22,587.0	11,773,342	\$277,584.46	\$179,508.15	\$457,092.61		3
4	LPS, IS & TS	53.919%	60.020%	69,942.8	44,229,382	\$859,565.20	\$674,365.38	\$1,533,930.58		4
5	FLAT RATES	0.000%	1.240%	0.0	913,655	\$0.00	\$13,930.49	\$13,930.49		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%	129,719.0	73,690,487	\$1,594,188.27	\$1,123,558.86	\$2,717,747.13		10

(a) Page 2 of 3, Columns A and B of tracker filed for the months of Oct-16

(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

Nov-16

Dec-16

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-16	Nov-16	Dec-16	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	13,147,976		0.027336	0.016090	\$354,381.29	\$208,589.22	\$22,247.02	\$2,437.38	1
2	CL	2,625,858		0.050932	0.016075	\$131,867.84	\$41,619.72	\$8,416.57	\$457.12	2
3	GP, GEH & EHS	11,071,274		0.027071	0.016049	\$295,514.51	\$175,195.32	\$21,079.73	\$1,838.24	3
4	LPS, IS & TS	41,591,893	69,943	12.578774	0.016050	\$867,477.14	\$658,204.18	\$124,958.40	\$6,819.96	4
5	FLAT RATES	859,172		0.000000	0.016075	\$0.00	\$13,617.83	(\$0.02)	\$158.46	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	69,296,173				\$1,649,240.77	\$1,097,226.27	\$176,701.70	\$11,711.16	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:

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

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

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

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

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

Oct-16

Nov-16

Dec-16

Oct-16

Nov-16

Dec-16

0.986

0.986

Oct-16

Nov-16

Dec-16

Oct-16

Nov-16

Dec-16

CITY OF RICHMOND, INDIANA

RECONCILIATION OF VARIANCES FOR THE
THREE MONTHS OF:

		Oct-16	Nov-16	Dec-16				
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	\$332,134.27	\$206,151.84	\$538,286.11	\$972.54	\$7,027.68	\$8,000.22	1
2	CL	\$123,451.27	\$41,162.60	\$164,613.86	\$480.53	\$1,412.71	\$1,893.25	2
3	GP, GEH & EHS	\$274,434.78	\$173,357.08	\$447,791.86	\$3,149.68	\$6,151.07	\$9,300.75	3
4	LPS, IS & TS	\$742,518.74	\$651,384.22	\$1,393,902.96	\$117,046.46	\$22,981.16	\$140,027.62	4
5	FLAT RATES	\$0.02	\$13,459.37	\$13,459.39	(\$0.02)	\$471.12	\$471.10	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	\$1,472,539.07	\$1,085,515.11	\$2,558,054.19	\$121,649.20	\$38,043.74	\$159,692.93	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-16	Nov-16	Dec-16	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)	124,676	124,189	140,291	389,156	129,719	8
9	ACTUAL CAPACITY PAYMENT SAVINGS PER KW (e)	\$0.628	\$0.630	\$0.558		\$0.604	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-16	Nov-16	Dec-16	TOTAL	ACTUAL 3 MONTH AVERAGE	LINE NO.
-		(A)	(B)	(C)	(D)	(E)	-
	PURCHASED POWER FROM IMPA						
1	KW DEMAND (a)	124,676	124,189	140,291	389,156	129,719	1
2	KWH ENERGY (a)	70,484,288	69,893,798	80,693,374	221,071,460	73,690,487	2
	INCREMENTAL PURCHASED POWER COSTS						
	DEMAND RELATED						
3	ECA FACTOR PER KW (a)	0.038	0.038	0.038		0.038	3
4	CHARGE (b)	\$4,737.69	\$4,719.18	\$5,331.06	\$14,787.93	\$4,929.31	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH (a)	0.001274	0.001274	0.001274		0.001274	5
6	CHARGE (c)	\$89,796.98	\$89,044.70	\$102,803.36	\$281,645.04	\$93,881.68	6

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

Oct-16

Nov-16

Dec-16

CITY OF RICHMOND, INDIANA

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

LINE NO.	RATE SCHEDULE	Oct-16	Nov-16	Dec-16	TOTAL	AVERAGE	LINE NO.
-		(A)	(B)	(C)	(D)	(E)	-
1	R	11,246,977	11,147,899	17,049,052	39,443,928	13,147,976	1
2	CL	2,447,000	2,314,518	3,116,056	7,877,574	2,625,858	2
3	GP, GEH & EHS	11,589,407	10,171,957	11,452,458	33,213,822	11,071,274	3
4	LPS, IS & TS	43,451,622	40,301,524	41,022,534	124,775,680	41,591,893	4
5	FLAT RATES	818,889	887,353	871,273	2,577,515	859,172	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	69,553,895	64,823,251	73,511,373	207,888,519	69,296,173	10

DETERMINATION OF ACTUAL AVERAGE KVA SALES

LPS & IS	72,431	67,221	70,177	209,828	69,943
----------	--------	--------	--------	---------	--------

CITY OF RICHMOND, INDIANA

Exhibit IV
Page 8 of 8

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

Rate Tariffs		Average	Percent of	Rate Study		Rate Study	Adjusted	
Rate Schedule Name/Description		Sales	Total kWh	kWh Energy	Variance	kW Demand	Adjusted	kW Demand
				Factors		Factors	Factors	Allocators
Code		(A)	(B)	(C)	(D)	(E)	(F)	(G)
R	Residential Electric Service	13,147,976	18.974%	21.898%	-13.355%	22.955%	19.889%	20.895%
CL	Commercial Lighting Service	2,625,858	3.789%	4.005%	-5.385%	7.821%	7.400%	7.774%
GP, GEH & EHS	Gen Power, Gen Electric Heat & Electric Heat Schools	11,071,274	15.977%	8.904%	79.433%	9.237%	16.574%	17.412%
LPS, IS & TS	Large Power, Industrial Service & Transmission Service	41,591,893	60.020%	64.065%	-6.313%	59.987%	53.919%	53.919%
FLAT RATES	Outdoor Lighting, Street Lighting	859,172	1.240%	1.128%	1.240%	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		69,296,173	100.000%	100.000%		100.000%	97.782%	100.000%
Purchases		73,690,487						
Average Losses		6.0%						

(A) From utility billing records

10/1/2016 11/1/2016 12/1/2016

(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)

CITY OF RICHMOND, INDIANA

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

Apr-17

May-17

Jun-17

LINE
NO.

-

Rates LPS, IS & TS

Demand Related Adjustment Factor

1	From Page 3 of 3, Column C, Line 4	\$1,137,309.00
2	From Page 2 of 3, Column C, Line 4	72,092.50 kW
3	Line 1 divided by Line 2	15.775691 per KW
4	Line 3 multiplied by 84.937%	13.399399
5	Demand Related Rate Adjustment Factor	13.399399 per KVA

Rates LPS, IS & TS

Energy Related Adjustment Factor

6	From Page 3 of 3, Column D, Line 4	\$598,168.05
7	From Page 2 of 3, Column D, Line 4	44,621,543 KWH
8	Line 6 divided by Line 7	\$0.013405
9	Energy Related Adjustment Factor	\$0.013405 per KWH

Energy Cost Adjustment (Revenue Report) KWH

	Oct-16	Nov-16	Dec-16
R - 44010	11,246,977	11,147,899	17,049,052
CWH - 44020			
K - 44030			
ASH - 44040			
CL - 44210	2,406,014	2,273,240	3,061,178
GP - 44220	11,175,813	9,775,221	10,934,262
IS - 44270	6,061,550	5,648,800	5,643,200
LPS - 44280	36,694,972	33,928,224	34,605,484
GEH - 44290	142,382	136,382	198,083
EH - 44250			
EHS - 44500	59,820	52,660	74,928
OL - 44260	247,680	257,456	261,232
FLAT - 44410 N	66,450	73,324	71,008
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	40,986	41,278	54,878
ST LIT - CITY M	504,759	556,573	539,033
GP - 44	93,257	95,770	123,571
GEH - 46	118,135	111,924	121,614
IS - IS	695,100	724,500	773,850
LPS - CITY	0	0	0
CITY BILLS	0	0	0
	69,553,895	64,823,251	73,511,373
BY RATE CLASS			
R	11,246,977	11,147,899	17,049,052
CL	2,447,000	2,314,518	3,116,056
GP, GEH, & EHS	11,589,407	10,171,957	11,452,458
LPS & IS	43,451,622	40,301,524	41,022,534
OL, M, & N	818,889	887,353	871,273
TOTAL	69,553,895	64,823,251	73,511,373
	69,553,895	64,823,251	73,511,373
LPS & IS Coincident kW	72,431	67,221	70,177
	68,735,006	63,935,898	72,640,100

CAPACITY COST REPORT

October
2016November
2016December
2016

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 0.00 0.00 0.00

TOTAL PRODUCTION COST 0.00 0.00 0.00

ADMN.& GENERAL COSTS(PRODUCTION RELATED)

920	Admn and general salaries	94,133.90	96,965.05	160,833.68
921	Office supplies and expense	18,815.64	24,804.25	29,292.67
923	Outside services employed	37,292.45	55,635.39	86,685.32
925	Injuries and damages	36,688.71	27,507.86	28,821.30
926	Employee pension and benefits	269,039.08	266,839.06	1,870,295.78
928	Regulatory commission expenses	0.00	0.00	0.00
930	Misc general expense	1,255.49	1,351.76	1,986.94
931	Rents	0.00	0.00	0.00
932	Maint of general plant	28,965.25	24,627.45	42,554.88
933	Transportation	4,940.42	3,260.66	5,385.23
	Payroll taxes	<u>9,153.14</u>	<u>9,184.83</u>	<u>14,563.84</u>

TOTAL ADMN AND GENERAL EXPENSES 500,284.08 510,176.31 2,240,419.64

PRR= 0.000000 0.000000 0.000000

(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) Total amortization 0.00 0.00 0.00

(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.
	WHOLESALE POWER COSTS TRACKER				
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

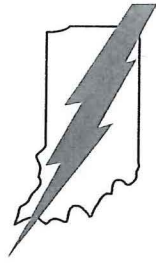
EXHIBIT V-A

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	\$10,834,921.78	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
8	DEPRECIATION		8
9	PRODUCTION FACILITIES	\$838,266.48	9
	GENERAL PLANT	\$25,858.39	
10	TOTAL DEPRECIATION	\$864,124.87	10
11	TOTAL OPERATING REVENUE DEDUCTIONS	\$12,612,282.78	11
12	PROVISION FOR DEBT SERVICE	\$822,366.00	12
13	TOTAL COST	\$13,434,648.78	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	(\$13,434,648.78)	17
18	TOTAL NET PAYMENT	\$286,904.11	18
	\$13,434,648.78 (\$8,913,320.89)		
	(\$ 4,521,327.89 / 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 9, 2017

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 2017.

If you have any questions, please feel free to call Ginny McCammon at (317) 805-1656.

Sincerely,

INDIANA MUNICIPAL POWER AGENCY

Ginny McCammon
Assistant Manager Rates & Billing

GM/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
2017 - 2ND QUARTER**

	APR	MAY	JUN	APR	MAY	JUN
	<u>\$/kW-month</u>			<u>\$/kWh</u>		
IMPA's Energy Cost Adjustment	0.416	0.416	0.416	(0.001775)	(0.001775)	(0.001775)
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for	<u>kW</u>			<u>kWh</u>		
RICHMOND	122,055	130,021	149,042	72,989,563	69,931,070	80,110,969



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
12/14/16

Amount Due:
\$5,017,115.04

Billing Period: October 1 to 31, 2016

Invoice No: INV0006878
Invoice Date: 11/14/16

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	125,035	1,587	99.99%	10/06/16	1300	75.77%
CP Billing Demand:	124,676	2,307	99.98%	10/06/16	1600	75.99%
kvar at 97% PF:		31,247				
Reactive Demand:		-				

Energy	kWh
WWVS Net Gen:	-
Richmond 1:	-
Richmond 2:	47,260,994
Richmond Solar:	144,940
Northwest:	15,511,630
Treaty:	7,566,724
Total Energy:	70,484,288

History	Oct 2016	Oct 2015	2016 YTD
Max Demand (kW):	125,035	115,863	151,923
CP Demand (kW):	124,676	112,688	149,623
Energy (kWh):	70,484,288	71,298,504	768,629,472
CP Load Factor:	75.99%	85.04%	
HDD/CDD (Indianapolis):	170/45	258/14	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	124,676	\$ 2,771,547.48
ECA Demand Charge:	\$ 0.038 / kW x	124,676	\$ 4,737.69
Total Demand Charges:			\$ 2,776,285.17
Base Energy Charge:	\$ 0.030525 / kWh x	70,484,288	\$ 2,151,532.89
ECA Energy Charge:	\$ 0.001274 / kWh x	70,484,288	\$ 89,796.98
Total Energy Charges:			\$ 2,241,329.87
Average Purchased Power Cost: 7.12 cents per kWh			Total Purchased Power Charges: \$ 5,017,615.04

Other Charges and Credits

Adjustment - Lease payment for WWVS plant: \$ (500.00)

NET AMOUNT DUE: \$ 5,017,115.04

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 12/14/16

Questions, please call: 317-573-9955

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

2

Billing Period: October 1, 2016 to October 31, 2016

[illegible]

RICHMOND WWVS PLANT

Billing Period: October 1, 2016 to October 31, 2016

[illegible]



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
01/13/17

Amount Due:
\$4,987,493.53

Billing Period: November 1 to 30, 2016

Invoice No: INV0007017

Invoice Date: 12/14/16

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	124,189	(8,286)	99.78%	11/22/16	1000	78.17%
CP Billing Demand:	124,189	(8,286)	99.78%	11/22/16	1000	78.17%
kvar at 97% PF:		31,125				
Reactive Demand:		-				

Energy	kWh
WWVS Net Gen:	-
Richmond 1:	-
Richmond 2:	46,977,412
Richmond Solar:	86,532
Northwest:	15,370,637
Treaty:	7,459,217
Total Energy:	69,893,798

History	Nov 2016	Nov 2015	2016 YTD
Max Demand (kW):	124,189	125,268	151,923
CP Demand (kW):	124,189	124,828	149,623
Energy (kWh):	69,893,798	69,675,522	838,523,270
CP Load Factor:	78.17%	77.52%	
HDD/CDD (Indianapolis):	503/5	509/4	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	124,189	\$ 2,760,721.47
ECA Demand Charge:	\$ 0.038 / kW x	124,189	\$ 4,719.18
Total Demand Charges:			\$ 2,765,440.65
Base Energy Charge:	\$ 0.030525 / kWh x	69,893,798	\$ 2,133,508.18
ECA Energy Charge:	\$ 0.001274 / kWh x	69,893,798	\$ 89,044.70
Total Energy Charges:			\$ 2,222,552.88
Average Purchased Power Cost: 7.14 cents per kWh			
Total Purchased Power Charges:			\$ 4,987,993.53

Other Charges and Credits

Adjustment - Lease payment for WWVS plant: \$ (500.00)

NET AMOUNT DUE: \$ 4,987,493.53

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 01/13/17

Questions, please call: 317-573-9955

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

Richmond Power & Light
Billing Period: November 1, 2016 to November 30, 2016

[illegible]

2

2

[illegible]



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
02/15/17

Amount Due:
\$5,689,468.59

Billing Period: December 1 to 31, 2016

Invoice No: INV0007103

Invoice Date: 01/16/17

Demand	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	144,479	631	100.00%	12/15/16	900	75.07%
CP Billing Demand:	140,291	(2,660)	99.98%	12/15/16	1900	77.31%
kvar at 97% PF:		35,160				
Reactive Demand:		-				

Energy	kWh
WWVS Net Gen:	4,115,591
Richmond 1:	12,083,906
Richmond 2:	41,990,878
Richmond Solar:	37,747
Northwest:	14,537,559
Treaty:	7,927,693
Total Energy:	80,693,374

History	Dec 2016	Dec 2015	2016 YTD
Max Demand (kW):	144,479	125,962	151,923
CP Demand (kW):	140,291	124,546	149,623
Energy (kWh):	80,693,374	73,866,048	919,216,644
CP Load Factor:	77.31%	79.72%	
HDD/CDD (Indianapolis):	1068/0	685/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	140,291	\$ 3,118,668.93
ECA Demand Charge:	\$ 0.038 / kW x	140,291	\$ 5,331.06
Total Demand Charges:			\$ 3,123,999.99
Base Energy Charge:	\$ 0.030525 / kWh x	80,693,374	\$ 2,463,165.24
ECA Energy Charge:	\$ 0.001274 / kWh x	80,693,374	\$ 102,803.36
Total Energy Charges:			\$ 2,565,968.60
Average Purchased Power Cost: 7.05 cents per kWh			Total Purchased Power Charges: \$ 5,689,968.59

Other Charges and Credits

Adjustment - Lease payment for WWVS plant: \$ (500.00)

NET AMOUNT DUE: \$ 5,689,468.59

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 02/15/17

Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency

Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757

IMP A Delivery Point Details

Richmond Power & Light

Billing Period: December 1, 2016 to December 31, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at RICHMOND's Maximum Peak on 12/15/16 at 0900 EST				Demand at IMPA's Coincident Peak on 12/15/16 at 1900 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	80,693,374						144,479	631	144,480	100.00%	140,291	(2,660)	140,316	99.98%
* Richmond 1	12,083,906	12/19/16 at 2200 EST	43,965	12,162	45,616	96.38%	30,023	5,618	30,544	98.29%	27,484	4,743	27,890	98.54%
* Richmond 2	41,990,878	12/09/16 at 0800 EST	88,307	11,460	89,048	99.17%	44,480	6,164	44,905	99.05%	40,797	5,053	41,109	99.24%
* Richmond Solar	37,747	12/19/16 at 1300 EST	687	(120)	697	98.51%	(3)	(11)	11	26.31%	(3)	(5)	6	51.45%
* Northwest	14,537,559	12/09/16 at 1300 EST	32,235	(6,917)	32,969	97.77%	13,353	(2,873)	13,659	97.76%	12,102	(3,571)	12,618	95.91%
* Treaty	7,927,693	12/05/16 at 1100 EST	22,085	(7,444)	23,306	94.76%	4,837	(4,839)	6,842	70.70%	4,318	(5,456)	6,958	62.06%
* WWVS Generation	4,963,796	-	-	-	-	-	57,029	101	57,029	100.00%	61,272	288	61,273	100.00%
* WWVS House Power	(848,205)	-	-	-	-	-	(5,240)	(3,529)	6,318	82.94%	(5,679)	(3,712)	6,785	83.71%

IMPA Delivery Point Details

RICHMOND WWVS PLANT

Billing Period: December 1, 2016 to December 31, 2016

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	4,115,591						51,789	(3,428)	51,902	99.78%	55,593	(3,424)	55,698	99.81%
* WWVS Gen1	1,005,728	12/19/16 at 1200 EST	35,239	-	35,239	100.00%	-	-	-	-	-	-	-	-
* WWVS Gen2	3,958,068	12/15/16 at 2000 EST	62,918	979	62,926	99.99%	57,029	101	57,029	100.00%	61,272	288	61,273	100.00%
* WWVS SO2MonitorHP	(705)	12/15/16 at 0200 EST	(2)	-	2	100.00%	(2)	-	2	100.00%	(1)	-	1	100.00%
* WWVS PumpHouseHP	(9,042)	12/15/16 at 2400 EST	(127)	(86)	153	82.80%	(90)	(58)	107	84.06%	(7)	-	7	100.00%
* WWVS LIFAC1HP	(43,454)	12/19/16 at 1700 EST	(100)	(25)	103	97.01%	(73)	(18)	75	97.09%	(78)	(19)	80	97.16%
* WWVS LIFAC2HP	(1,683)	12/15/16 at 0700 EST	(6)	(1)	6	98.64%	(5)	(1)	5	98.06%	(5)	(1)	5	98.06%
* WWVS LIFAC-TWRHP	(4,396)	12/15/16 at 0600 EST	(20)	(2)	20	99.50%	(12)	(2)	12	98.64%	(9)	(1)	9	99.39%
* WWVS ZeroDischargeHP	(10,696)	12/18/16 at 2300 EST	(23)	(16)	28	82.09%	(18)	(15)	23	76.82%	(18)	(15)	23	76.82%
* WWVS FirePump1HP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* WWVS FirePump2HP	(3,292)	12/14/16 at 0500 EST	(7)	(3)	8	91.91%	(6)	(2)	6	94.87%	(6)	(3)	7	89.44%
* WWVS BaghouseHP	(142,495)	12/13/16 at 1300 EST	(1,039)	(593)	1,196	86.85%	(754)	(502)	906	83.24%	(744)	(501)	897	82.95%
* WWVS G1HP1	(41,305)	-	-	-	-	-	-	-	-	-	-	-	-	-
* WWVS G1HP2	(161,265)	12/19/16 at 0900 EST	(255)	-	255	100.00%	(255)	(161)	302	84.56%	(142)	(60)	154	92.11%
* WWVS G2HP1	(299,440)	12/16/16 at 1000 EST	(3,636)	-	3,636	100.00%	(3,636)	(2,600)	4,470	81.34%	(4,264)	(2,937)	5,178	82.35%
* WWVS G2HP2	(130,432)	12/13/16 at 1700 EST	(389)	-	389	100.00%	(389)	(170)	425	91.63%	(405)	(175)	441	91.80%

REVENUE REPORT

October-16

	RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL				
		<u>11,246,977</u>	<u>\$ 1,278,941.72</u>	
	Total R 44010	11,246,977	\$ 1,278,941.72	
COMMERCIAL				
		<u>2,406,014</u>	<u>\$ 377,012.20</u>	<u>0</u>
	Total CL 44210	2,406,014	\$ 377,012.20	0
GENERAL POWER				
		<u>11,175,813</u>	<u>\$ 1,157,039.51</u>	<u>18,214</u>
	Total GP 44220	11,175,813	\$ 1,157,039.51	18,214
INDUSTRIAL POWER				
	IS -COIN	4,043,900	\$ 383,344.24	12,205
	IS	<u>2,017,650</u>	<u>\$ 171,552.03</u>	<u>4,024</u>
	Total IS 44270	6,061,550	\$ 554,896.27	16,229
LARGE POWER				
	LPS-COIN	29,448,126	\$ 2,392,557.15	59,639
	LPS	<u>7,246,846</u>	<u>\$ 680,750.36</u>	<u>17,519</u>
	Total LPS 44280	36,694,972	\$ 3,073,307.51	77,158
GENERAL ELECT HEAT				
		<u>142,382</u>	<u>\$ 14,814.48</u>	<u>50</u>
	Total GEH 44290	142,382	\$ 14,814.48	50
ELECTRIC HEAT SCHOOLS				
	43	<u>59,820</u>	<u>\$ 5,779.22</u>	<u>219</u>
	Total EHS 44500	59,820	\$ 5,779.22	219
RESIDENTIAL - OLS				
		<u>247,680</u>	<u>\$ 22,821.33</u>	
	Total OLS 44260	247,680	\$ 22,821.33	
FLAT RATE (237)				
	Rate 8 - N	27,122	\$ 6,119.58	
	Rate 39 - CATV	<u>39,328</u>	<u>\$ 6,763.06</u>	
	Total N 44410	66,450	\$ 12,882.64	
ACCOUNTS RECEIVABLE CONTROL				
	Total 14210	<u>68,101,658</u>	<u>\$ 6,497,494.88</u>	<u>111,870</u>

October-16

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	6,471	\$ 1,979.87	
PUBLIC BLDGS - CITY	44230	34,515	\$ 5,241.51	
CITY STREET LIGHTS				
Rate 7	44420	<u>504,759</u>	<u>\$ 67,350.06</u>	
	CITY - GP 44	93,257	\$ 10,573.28	0
	CITY - GEH 46	118,135	\$ 12,368.84	58
	Sanitation - IS	695,100	\$ 50,778.35	1,231
	44240	<u>906,492</u>	<u>\$ 73,720.47</u>	<u>1,289</u>
	CITY -14610	<u>1,452,237</u>	<u>\$ 148,291.91</u>	<u>1,289</u>
TOTAL ALL REC'V [14210+14610]		<u><u>69,553,895</u></u>	<u><u>\$ 6,645,786.79</u></u>	<u><u>113,159</u></u>
	PENALTIES 45000		\$ 49,494.09	
	SALES TAX 24170		\$ 195,292.58	
	WRITE OFFS 14400		\$ 24,451.73	
TOTAL OF ALL CHARGES		<u><u>69,553,895</u></u>	<u><u>\$ 6,915,025.19</u></u>	

REVENUE REPORT

November-16

	RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL				
		<u>11,147,899</u>	<u>\$ 1,268,860.54</u>	
	Total R 44010	11,147,899	\$ 1,268,860.54	
COMMERCIAL				
		<u>2,273,240</u>	<u>\$ 360,452.31</u>	<u>0</u>
	Total CL 44210	2,273,240	\$ 360,452.31	0
GENERAL POWER				
		<u>9,775,221</u>	<u>\$ 1,017,624.05</u>	<u>16,477</u>
	Total GP 44220	9,775,221	\$ 1,017,624.05	16,477
INDUSTRIAL POWER				
	IS -COIN	4,100,250	\$ 404,056.10	12,591
	IS	1,548,550	\$ 148,054.39	3,657
	Total IS 44270	<u>5,648,800</u>	<u>\$ 552,110.49</u>	<u>16,248</u>
LARGE POWER				
	LPS-COIN	26,959,670	\$ 2,171,536.04	58,444
	LPS	6,968,554	\$ 662,651.49	17,227
	Total LPS 44280	<u>33,928,224</u>	<u>\$ 2,834,187.53</u>	<u>75,671</u>
GENERAL ELECT HEAT				
		<u>136,382</u>	<u>\$ 14,450.27</u>	<u>45</u>
	Total GEH 44290	136,382	\$ 14,450.27	45
ELECTRIC HEAT SCHOOLS				
	43	<u>52,660</u>	<u>\$ 5,087.48</u>	<u>222</u>
	Total EHS 44500	52,660	\$ 5,087.48	222
RESIDENTIAL - OLS				
		<u>257,456</u>	<u>\$ 23,409.22</u>	
	Total OLS 44260	257,456	\$ 23,409.22	
FLAT RATE (237)				
	Rate 8 - N	29,928	\$ 6,213.08	
	Rate 39 - CATV	43,396	\$ 7,281.60	
	Total N 44410	<u>73,324</u>	<u>\$ 13,494.68</u>	
ACCOUNTS RECEIVABLE CONTROL				
	Total 14210	<u>63,293,206</u>	<u>\$ 6,089,676.57</u>	<u>108,663</u>

November-16

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	6,375	\$ 1,967.63	
PUBLIC BLDGS - CITY	44230	34,903	\$ 5,200.48	
CITY STREET LIGHTS				
Rate 7	44420	<u>556,573</u>	<u>\$ 69,073.60</u>	
	CITY - GP 44	95,770	\$ 10,623.69	0
	CITY - GEH 46	111,924	\$ 11,927.42	60
	Sanitation - IS	<u>724,500</u>	<u>\$ 57,601.67</u>	<u>1,308</u>
	44240	<u>932,194</u>	<u>\$ 80,152.78</u>	<u>1,368</u>
	CITY -14610	<u>1,530,045</u>	<u>\$ 156,394.49</u>	<u>1,368</u>
TOTAL ALL REC'V [14210+14610]		<u><u>64,823,251</u></u>	<u><u>\$ 6,246,071.06</u></u>	<u><u>110,031</u></u>
	PENALTIES 45000		\$ 48,344.62	
	SALES TAX 24170		\$ 184,867.55	
	WRITE OFFS 14400		\$ 17,416.19	
TOTAL OF ALL CHARGES		<u><u>64,823,251</u></u>	<u><u>\$ 6,496,699.42</u></u>	

REVENUE REPORT

December-16

	RATE CODE	HOURS	REVENUE DOLLARS	KVA
RESIDENTIAL				
		<u>17,049,052</u>	<u>\$ 1,807,974.44</u>	
	Total R 44010	17,049,052	\$ 1,807,974.44	
COMMERCIAL				
		<u>3,061,178</u>	<u>\$ 460,849.40</u>	<u>0</u>
	Total CL 44210	3,061,178	\$ 460,849.40	0
GENERAL POWER				
		<u>10,934,262</u>	<u>\$ 1,182,124.17</u>	<u>19,910</u>
	Total GP 44220	10,934,262	\$ 1,182,124.17	19,910
INDUSTRIAL POWER				
	IS -COIN	4,126,500	\$ 408,300.14	12,664
	IS	<u>1,516,700</u>	<u>\$ 131,333.17</u>	<u>2,619</u>
	Total IS 44270	5,643,200	\$ 539,633.31	15,283
LARGE POWER				
	LPS-COIN	26,719,480	\$ 2,182,310.59	55,366
	LPS	<u>7,886,004</u>	<u>\$ 730,025.81</u>	<u>18,556</u>
	Total LPS 44280	34,605,484	\$ 2,912,336.40	73,922
GENERAL ELECT HEAT				
		<u>198,083</u>	<u>\$ 21,086.48</u>	<u>48</u>
	Total GEH 44290	198,083	\$ 21,086.48	48
ELECTRIC HEAT SCHOOLS				
	43	<u>74,928</u>	<u>\$ 7,238.79</u>	<u>162</u>
	Total EHS 44500	74,928	\$ 7,238.79	162
RESIDENTIAL - OLS				
		<u>261,232</u>	<u>\$ 23,360.21</u>	
	Total OLS 44260	261,232	\$ 23,360.21	
FLAT RATE (237)				
	Rate 8 - N	29,026	\$ 6,113.51	
	Rate 39 - CATV	<u>41,982</u>	<u>\$ 6,998.08</u>	
	Total N 44410	71,008	\$ 13,111.59	
ACCOUNTS RECEIVABLE CONTROL				
	Total 14210	<u>71,898,427</u>	<u>\$ 6,967,714.79</u>	<u>109,325</u>

December-16

	RATE CODE	KILOWATT HOURS	REVENUE	KVA
TRAFFIC LIGHTS				
STREET DEPT	44430	6,495	\$ 1,982.96	
PUBLIC BLDGS - CITY	44230	48,383	\$ 6,906.21	
CITY STREET LIGHTS				
Rate 7	44420	<u>539,033</u>	<u>\$ 66,870.81</u>	
	CITY - GP 44	123,571	\$ 13,229.30	0
	CITY - GEH 46	121,614	\$ 12,902.84	61
	Sanitation - IS	<u>773,850</u>	<u>\$ 57,872.01</u>	<u>1,449</u>
	44240	1,019,035	\$ 84,004.15	1,510
	CITY -14610	<u>1,612,946</u>	<u>\$ 159,764.13</u>	<u>1,510</u>
TOTAL ALL REC'V [14210+14610]		<u><u>73,511,373</u></u>	<u><u>\$ 7,127,478.92</u></u>	<u><u>110,835</u></u>
	PENALTIES 45000		\$ 33,171.87	
	SALES TAX 24170		\$ 238,827.40	
	WRITE OFFS 14400		<u>\$ 6,689.77</u>	
TOTAL OF ALL CHARGES		<u><u>73,511,373</u></u>	<u><u>\$ 7,406,167.96</u></u>	