



TIPTON MUNICIPAL UTILITIES

Received: November 29, 2016
IURC 30-Day Filing No.: 50014
Indiana Utility Regulatory Commission

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Via Electronic Filing – 30 Day Filings – Electric

November 15, 2016

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

RE: Tipton Municipal Electric Utility 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 Tipton Municipal Electric Utility: Determination of the rate adjustments for the Purchase Power Cost Adjustment Tracking Factor (Appendix A) for the three months of January, February and March 2017. The tariff sheets and work papers are attached. The purpose of this filing is to implement an average change in rates for electric service charged by its supplier, Indiana Municipal Power Agency. This filing is allowed under 170 IAC 1-6-3 of Rule 6 because it entails Cause No. 36835-S3 dated 12-13-1989, the commission has already approved or accepted the procedure for the change.

The person at the Tipton Municipal Electric Utility to be contacted regarding this filing is:

Rex A. Boyer
(765) 675-7292
P.O. Box 288
Tipton, Indiana 46072
rboyer@tusb.com

Affected customers have been notified as required under 170 IAC 1-6-6. Tipton Municipal Utilities does not have a web-site. Notice shall be published in the Tipton Tribune. The required Proof of Publication of Legal Notice will be forwarded as soon as it is available from the publisher. Notice has been posted in a public place in the Tipton Municipal Electric Utility customer service office. 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,

Rex A. Boyer
General Manager

TIPTON MUNICIPAL ELECTRIC UTILITY

ENERGY COST ADJUSTMENT TRACKING FACTOR
1ST QUARTER, 2017

BILLING AND USAGE PERIOD: JANUARY THROUGH MARCH 2017

TIPTON CITY (INDIANA) MUNICIPAL ELECTRIC UTILITY

APPENDIX A

RATE ADJUSTMENT (Applicable to all metered rates)

The Rate Adjustment shall be on the basis of a Purchased 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:

<u>Rate Code</u>		<u>ECA Tracking Factor</u>
RATE - A	\$	0.036236 Per Kwh
RATE - B		0.038072 Per Kwh
RATE - C		0.039940 Per Kwh
RATE - D		0.034837 Per Kwh

MONTH'S EFFECTIVE:

JAN 2017

FEB 2017

MAR 2017

TO THE INDIANA UTILITY REGULATORY COMMISSION:

1. Tipton Municipal Electric Utility, Tipton, Indiana, under and pursuant to the Indiana Utility Regulatory Commission Act, as amended, and Commission Order in Cause No. 36835-S3, hereby files with the Indiana Utility Regulatory Commission for approval, a change in its rates for electricity sold in the amount of:

<u>Rate Code</u>	<u>Change in ECA Tracking Factor</u>
RATE - A	\$ (0.000231) Per Kwh
RATE - B	\$ (0.000049) Per Kwh
RATE - C	\$ (0.000290) Per Kwh
RATE - D	\$ 0.001395 Per Kwh

2. The accompanying changes in schedules of rates are based solely upon the change 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 next practical consumption period following the date of such approval, or for the next practical consumption period following the effective date of change in Applicant's cost of purchased firm power, whichever is later.

TIPTON MUNICIPAL ELECTRIC UTILITY

BY:

Rex A. Boyer
Rex A. Boyer

STATE OF INDIANA)
COUNTY OF TIPTON)

SS:

Personally appeared before me, a Notary Public in and for said county and state, this 21st day of Nov., 2016 Rex Boyer, who, after having been duly sworn according to law, stated that he is an employee of Tipton Utilities; Tipton, 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.

Susan Munson
Susan Munson, Notary Public

My County of Residence: Tipton

My Commission expires:

May 8, 2019

PRESS RELEASE IN REGARD TO CHANGE IN ELECTRIC
RATES FOR THE CITY OF TIPTON, INDIANA

QUARTERLY ENERGY COST ADJUSTMENT FACTOR

On January 1, 2017 the Indiana Municipal Power Agency (IMPA) is anticipated to change its energy cost adjustment rates to its members.

The City of Tipton will file with the Indiana Utility Regulatory Commission, for its approval, a change in its schedule of rates for electricity sold to reflect the change in the cost of power purchased from the Indiana Municipal Power Agency (IMPA) together with the reconciliation of electric costs and revenues from prior periods.

Upon approval of the Indiana Utility Regulatory Commission, a change per kilowatt hour of approximately:

RATE - A	\$	(0.000231) / Kwh
RATE - B	\$	(0.000049) / Kwh
RATE - C	\$	(0.000290) / Kwh
RATE - D	\$	0.001395 / Kwh

be applied for all bills of the next practical consumption period following the date of such approval or for the next practical consumption period following the effective date of change in the cost of purchased firm power, whichever is later. Residential rates have a change of approximately (\$0.23) for every 1,000 kilowatt hours consumed.

Assuming a typical or average residential monthly bill is for approximately 700 kilowatt hours consumption, this will amount to a change per month of (\$0.16). This change stated as a percentage of the monthly bill will vary from individual to individual depending upon the actual amount of energy consumed.

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

Filing No. 1ST QTR 2017

Page 1 of 3

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
JAN 2017 FEB 2017 MAR 2017

LINE NO.	DESCRIPTION		DEMAND RELATED (A)	ENERGY RELATED (B)	LINE NO.
1	INCREMENTAL CHANGE IN BASE RATE (a)		10.873	0.014672	1
2	ESTIMATED SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+	0.000		2
3	ESTIMATED PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	0.416	(0.001775)	3
4	ESTIMATED TOTAL CHANGE IN PURCHASED POWER RATE		11.289	0.012897	4
5	EST CHANGE IN PURCHASED POWER RATE ADJ FOR LOSSES & UTILITY RECEIPTS TAX (d)		11.724	0.013394	5
6	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (e)	+	0.000	0.000000	6
7	ESTIMATED TOTAL RATE ADJUSTMENT		11.724	0.013394	7
8	ESTIMATED AVERAGE BILLING UNITS (f)	*	23,145	12,276,715	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 271,351.98	\$ 164,434.32	9

(a) Exhibit I, Line 3

(b) Exhibit II, Line 9 N/A

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

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

(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

= 97.66%
96.29%

CITY OF TIPTON, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
JAN 20 FEB 2017 MAR 2017

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR	KWH ENERGY ALLOCATOR	ALLOCATED ESTIMATED KWH PURCHASED (b)	ALLOCATED ESTIMATED KWH PURCHASED (c)	INCREMENTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			LINE NO.
		(%) (a)	(%) (a)	(C)	(D)	DEMAND (d)	ENERGY (e)	TOTAL	
		(A)	(B)			(E)	(F)	(G)	
1	RATE - A	34.096	33.919	7,891.5	4,164,139	\$ 92,520.17	\$ 55,774.48	\$ 148,294.65	1
2	RATE - B	23.147	21.193	5,357.4	2,601,804	62,809.84	34,848.57	97,658.41	2
3	RATE - C	14.037	11.801	3,248.9	1,448,775	38,089.68	19,404.89	57,494.57	3
4	RATE - D	27.776	32.013	6,428.8	3,930,145	75,370.73	52,640.36	128,011.09	4
5	FLAT RATES	0.944	1.074	218.5	131,852	2,561.56	1,766.02	4,327.58	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	23,145.0	12,276,715	\$ 271,351.98	\$ 164,434.32	\$ 435,786.30	10

(a) From Cost of Service Study Based on Twelve Month Period
01/01/97 to 12/31/97

(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

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
JAN 2017 FEB 2017 MAR 2017

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 (A)	ENERGY (B)	DEMAND (b) (C)	ENERGY (c) (D)	TOTAL (E)	DEMAND (F)	ENERGY (G)	TOTAL (H)	
1	RATE - A	\$ 1,568.00	\$ 1,028.77	\$ 94,088.17	\$ 56,803.25	\$ 150,891.42	\$ 0.022595	\$0.013641	\$0.036236	1
2	RATE - B	894.71	502.36	63,704.55	35,350.93	99,055.48	0.024485	0.013587	0.038072	2
3	RATE - C	264.50	105.57	38,354.18	19,510.46	57,864.64	0.026474	0.013467	0.039940	3
4	RATE - D	5,533.89	3,371.09	80,904.62	56,011.45	136,916.06	0.020586	0.014252	0.034837	4
5	FLAT RATES	21.23	7.76	2,582.79	1,773.78	4,356.57	0.019589	0.013453	0.033041	5
6										6
7										7
8										8
9										9
10	TOTAL	<u>\$ 8,282.33</u>	<u>\$ 5,015.54</u>	<u>\$ 279,634.31</u>	<u>\$ 169,449.86</u>	<u>\$ 449,084.17</u>	<u>\$ 0.022778</u>	<u>\$0.013803</u>	<u>\$0.036580</u>	10

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

Plus, the Special Variance from Page 2A of 3, Columns C and D

96.29%

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

(c) Page 2 of 3, Column F plus Page 2a of 3, Column G 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

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF INCREMENTAL CHANGE IN BASE RATES

LINE NO.	DESCRIPTION		DEMAND RELATED	ENERGY RELATED	LINE NO.
1	BASE RATE EFFECTIVE January 1, 2017 (a)		\$ 24.355	\$ 0.030565	1
2	BASE RATE EFFECTIVE January 1, 2004 (b)	-	<u>13.482</u>	<u>0.015893</u>	2
3	INCREMENTAL CHANGE IN BASE RATE (c)		<u>\$10.873</u>	<u>\$0.014672</u>	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.
Tipton base rates and charges were approved by the Indiana Utility Regulatory Commission on August 11, 2004 in Cause No. 42589.
- (c) Line 1 - Line 2

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

ESTIMATION OF ENERGY COST ADJUSTMENT FOR THE THREE MONTHS OF:
JAN 20 FEB 2017 MAR 2017

LINE NO.	DESCRIPTION	JAN 2017 (A)	FEB 2017 (B)	MAR 2017 (C)	TOTAL (D)	ESTIMATED 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND	24,714	23,469	21,253	69,436	23,145	1
2	KWH ENERGY	13,719,144	11,896,985	11,214,017	36,830,146	12,276,715	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ 0.416	\$ 0.416	\$ 0.416		\$ 0.416	3
4	CHARGE (a)	\$ 10,281.02	\$ 9,763.10	\$ 8,841.25	\$ 28,885.38	\$ 9,628.46	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ (0.001775)	\$ (0.001775)	\$ (0.001775)		\$ (0.001775)	5
6	CHARGE (b)	\$ (24,351.48)	\$ (21,117.15)	\$ (19,904.88)	\$ (65,373.51)	\$ (21,791.17)	6

(a) Line 1 times Line 3

(b) Line 2 times Line 5

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
JULY 2016 AUG 2016 SEPT 2016

LINE NO.	DESCRIPTION		DEMAND RELATED	ENERGY RELATED	LINE NO.
			(A)	(B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)		\$ 10,2410	\$ 0.014632	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+			2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	0.038	0.001274	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO IMPA MEMBERSHIP (d)	+	0.000	0.000000	4
5	TOTAL RATE ADJUSTMENT (e)		10,279	\$ 0.015906	5
6	ACTUAL AVERAGE BILLING UNITS (f)	*	27,343	13,395,314	6
	LINE 5 * LINE 6		\$ 281,058.70	\$ 213,065.86	
	OTHER CHARGES		-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		<u>\$ 281,058.70</u>	<u>\$ 213,065.86</u>	7

(a) Page 1 of 3, Line 1 of the Tracker filing for the months of:

	JULY 2016	AUG 2016	SEPT 2016
Base Rate Effective 01/01/2016		minus	Base Rate Effective 01/01/2004
Demand	\$23.723		\$13.482000
Energy	\$0.030525		\$0.015893

(b) Exhibit IV, Page 5 of 7, Column E, Line 9

(c) Exhibit IV, Page 6 of 7, Column E, Lines 4 and 6

(d) 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

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
JULY 2016 AUG 2016 SEPT 2016

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR	KWH ENERGY ALLOCATOR	ALLOCATED ACTUAL KW PURCHASED (b)	ALLOCATED ACTUAL KWH PURCHASED (c)	INCREMENTAL CHANGE IN PURCHASED POWER COST			LINE NO.
		(%) (a) (A)	(%) (a) (B)	(C)	(D)	DEMAND (d) (E)	ENERGY (e) (F)	TOTAL (G)	
1	RATE - A	30.206	29.121	8,259.3	3,900,785	\$ 84,896.95	\$ 62,045.88	\$ 146,942.83	1
2	RATE - B	18.725	16.614	5,119.9	2,225,500	52,627.12	35,398.81	88,025.93	2
3	RATE - C	9.155	7.458	2,503.2	999,088	25,729.95	15,891.50	41,621.45	3
4	RATE - D	41.344	46.178	11,304.7	6,185,677	116,201.10	98,389.37	214,590.47	4
5	FLAT RATES	0.571	0.629	156.0	84,264	1,603.57	1,340.30	2,943.87	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	27,343.0	13,395,314	\$ 281,058.70	\$ 213,065.86	\$ 494,124.56	10

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

(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

JULY 2016

AUG 2016

SEPT 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
JULY 2016 AUG 2016 SEPT 2016

LINE NO.	RATE SCHEDULE	ACTUAL AVERAGE KWH SALES (a) (A)	DEMAND ADJUSTMENT FACTOR PER KWH (b) (B)	ENERGY ADJUSTMENT FACTOR PER KWH (c) (C)	INCREMENTAL KW DEMAND COST BILLED BY MEMBER (d) (D)	INCREMENTAL KWH ENERGY COST BILLED BY MEMBER (e) (E)	LESS PREV. VARIANCE - SYSTEM SALES FROM FILING NUMBER	JULY 2016 ENERGY (g) (G)	LINE NO.
1	RATE - A	3,749,694	0.022049	0.016059	\$ 81,519.52	\$ 59,373.31	\$ (1,867.60)	\$ (1,681.97)	1
2	RATE - B	2,139,299	0.024172	0.016114	50,987.18	33,990.05	(778.42)	(925.04)	2
3	RATE - C	960,390	0.026094	0.016068	24,709.57	15,215.50	(765.69)	(574.35)	3
4	RATE - D	5,946,084	0.018107	0.015780	106,158.42	92,515.60	(4,714.10)	(2,627.75)	4
5	FLAT RATES	81,000	0.019512	0.016145	1,558.35	1,289.44	(24.78)	(43.39)	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>12,876,467</u>			<u>\$ 264,933.04</u>	<u>\$ 202,383.90</u>	<u>\$ (8,150.59)</u>	<u>\$ (5,852.50)</u>	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 Utility Receipts Tax Factor of

(e) Column A times Column C times the Utility Receipts Tax Factor of

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

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

JULY 2016

JULY 2016

0.986

0.986

JULY 2016

JULY 2016

AUG 2016

AUG 2016

AUG 2016

AUG 2016

SEPT 2016

SEPT 2016

SEPT 2016

SEPT 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
JULY 2016 AUG 2016 SEPT 2016

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	RATE - A	\$ 83,387.12	\$ 61,055.28	\$ 144,442.40	\$ 1,509.83	\$ 990.60	\$ 2,500.43	1
2	RATE - B	51,765.60	34,915.09	86,680.69	861.52	483.72	1,345.24	2
3	RATE - C	25,475.26	15,789.85	41,265.11	254.69	101.65	356.34	3
4	RATE - D	110,872.52	95,143.35	206,015.87	5,328.58	3,246.02	8,574.60	4
5	FLAT RATES	1,583.13	1,332.83	2,915.96	20.44	7.47	27.91	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 273,083.63</u>	<u>\$ 208,236.40</u>	<u>\$ 481,320.03</u>	<u>\$ 7,975.06</u>	<u>\$ 4,829.46</u>	<u>\$ 12,804.52</u>	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

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL ENERGY COST ADJUSTMENT FOR THE THREE MONTHS OF

		JULY 2016	AUG 2016	SEPT 2016			
LINE NO.	DESCRIPTION	JULY 2016 (A)	AUG 2016 (B)	SEPT 2016 (C)	TOTAL (D)	ACTUAL 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND (a)	27,074	26,996	27,960	82,030	27,343	1
2	KWH ENERGY (a)	13,146,927	14,180,183	12,858,831	40,185,941	13,395,314	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)	\$ 1,028.81	\$ 1,025.85	\$ 1,062.48	\$ 3,117.14	\$ 1,039.05	4
ENERGY RELATED							
5	ECA FACTOR PER KWH (a)	\$ 0.001274	\$ 0.001274	\$ 0.001274		\$ 0.001274	5
6	CHARGE (c)	\$ 16,749.18	\$ 18,065.55	\$ 16,382.15	\$ 51,196.89	\$ 17,065.63	6

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

JULY 2016

AUG 2016

SEPT 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY
DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF
JULY 2016 AUG 2016 SEPT 2016

LINE NO.	RATE SCHEDULE	JULY 2016 (A)	AUG 2016 (B)	SEPT 2016 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	3,250,502	3,913,720	4,084,859	11,249,081	3,749,694	1
2	RATE - B	1,956,806	2,194,996	2,266,094	6,417,896	2,139,299	2
3	RATE - C	891,301	923,472	1,066,398	2,881,171	960,390	3
4	RATE - D	5,872,863	5,708,766	6,256,622	17,838,251	5,946,084	4
5	FLAT RATES	81,000	81,000	81,000	243,000	81,000	5
6							6
7							7
8							8
9							9
10	TOTAL	<u>12,052,472</u>	<u>12,821,954</u>	<u>13,754,973</u>	<u>38,629,399</u>	<u>12,876,467</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

	JULY 2016	AUG 2016	SEPT 2016				
Rate Schedule	Average Sales	Percent of Total	kWh Energy Factors	Variance	kW Demand Factors	Adjusted Factors	kW Demand Allocator for 2009
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
RATE - A	3,749,694	29.121%	33.919%	-14.147%	34.096%	29.272%	30.206%
RATE - B	2,139,299	16.614%	21.193%	-21.606%	23.147%	18.146%	18.725%
RATE - C	960,390	7.458%	11.801%	-36.798%	14.037%	8.872%	9.155%
RATE - D	5,946,084	46.178%	32.013%	44.247%	27.776%	40.066%	41.344%
FLAT RATES	81,000	0.629%	1.074%	-41.429%	0.944%	0.553%	0.571%
							0.000%
	12,876,467	100.000%	100.000%		100.000%	96.909%	100.000%

(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)

**INDIANA MUNICIPAL POWER AGENCY
ECA ESTIMATES FOR JANUARY, FEBRUARY and MARCH
2017 - 1ST QUARTER**

	JAN	FEB	MAR	JAN	FEB	MAR
	\$/kW-month			\$/kWh		
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 TIPTON	kW			kWh		
	24,714	23,469	21,253	13,719,144	11,896,985	11,214,017



IMPA

INDIANA MUNICIPAL POWER AGENCY

Tipton Municipal Utilities
P.O. Box 288
Tipton, IN 46072

Due Date:
09/14/16

Amount Due:
\$1,061,364.44

Billing Period: July 1 to 31, 2016

Invoice No: INV0006474
Invoice Date: 08/15/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	27,074	6,543	97.20%	07/21/16	1500	65.27%
CP Billing Demand:	27,074	6,543	97.20%	07/21/16	1500	65.27%
kvar at 97% PF:		6,785				
Reactive Demand:		-				

Energy*	kWh
Getrag Banks #1-4:	2,016,284
Tipton #1:	6,477,754
Tipton #2:	4,652,729
Tipton Dist. Gen.:	160
Total Energy:	13,146,927

History	Jul 2016	Jul 2015	2016 YTD
Max Demand (kW):	27,074	27,257	27,074
CP Demand (kW):	27,074	26,978	27,074
Energy (kWh):	13,146,927	13,051,051	84,410,955
CP Load Factor:	65.27%	65.02%	
HDD/CDD (Indianapolis):	2/368	0/303	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	27,074	\$ 601,855.02
ECA Demand Charge:	\$ 0.038 / kW x	27,074	\$ 1,028.81
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	27,074	\$ 40,421.48
Total Demand Charges:			\$ 643,305.31
Base Energy Charge:	\$ 0.030525 / kWh x	13,146,927	\$ 401,309.95
ECA Energy Charge:	\$ 0.001274 / kWh x	13,146,927	\$ 16,749.18
Total Energy Charges:			\$ 418,059.13
Average Purchased Power Cost: 8.07 cents per kWh			Total Purchased Power Charges: \$ 1,061,364.44

Other Charges and Credits

NET AMOUNT DUE: \$ 1,061,364.44

* Getrag: units adjusted by loss factors of 0.997 for demand & 0.998 for energy.

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 09/14/16

Questions, please call: 317-573-9955

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

IMPA Delivery Point Details

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 07/21/16 at 1500 EST				Demand at IMPA's Coincident Peak on 07/21/16 at 1500 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	13,146,927						27,074	6,543	27,853	97.20%	27,074	6,543	27,853	97.20%
Tipton Dist. Gen.	160	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipton #1	6,477,754	07/21/16 at 1500 EST	13,517	2,016	13,667	98.91%	13,517	2,016	13,667	98.91%	13,517	2,016	13,667	98.91%
Tipton #2	4,652,729	07/12/16 at 1400 EST	10,109	2,467	10,406	97.15%	10,051	2,602	10,382	96.81%	10,051	2,602	10,382	96.81%
Getrag Bank #1	29,698	07/28/16 at 0900 EST	79	29	84	93.87%	36	7	37	98.16%	36	7	37	98.16%
Getrag Bank #2	65,290	07/12/16 at 1500 EST	310	65	317	97.87%	194	94	216	89.99%	194	94	216	89.99%
Getrag Bank #3	532,932	07/18/16 at 1600 EST	1,020	624	1,196	85.30%	804	564	982	81.87%	804	564	982	81.87%
Getrag Bank #4	1,388,364	07/21/16 at 2100 EST	2,496	1,308	2,818	88.57%	2,472	1,260	2,775	89.09%	2,472	1,260	2,775	89.09%



IMPA

INDIANA MUNICIPAL POWER AGENCY

Tipton Municipal Utilities
P.O. Box 288
Tipton, IN 46072

Due Date:
10/14/16

Amount Due:
\$1,092,367.60

Billing Period: August 1 to 31, 2016

Invoice No: INV0006550
Invoice Date: 09/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	27,324	6,762	97.07%	08/11/16	1500	69.75%
CP Billing Demand:	26,996	6,485	97.23%	08/11/16	1600	70.60%
kvar at 97% PF:		6,766				
Reactive Demand:		-				

Energy*	kWh
Getrag Banks #1-4:	2,236,870
Tipton #1:	6,900,542
Tipton #2:	5,042,771
Tipton Dist. Gen.:	-
Total Energy:	14,180,183

History	Aug 2016	Aug 2015	2016 YTD
Max Demand (kW):	27,324	25,719	27,324
CP Demand (kW):	26,996	24,225	27,074
Energy (kWh):	14,180,183	13,244,845	98,591,138
CP Load Factor:	70.60%	73.49%	
HDD/CDD (Indianapolis):	0/416	2/251	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	26,996	\$ 600,121.08
ECA Demand Charge:	\$ 0.038 / kW x	26,996	\$ 1,025.85
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	26,996	\$ 40,305.03
Total Demand Charges:			\$ 641,451.96
Base Energy Charge:	\$ 0.030525 / kWh x	14,180,183	\$ 432,850.09
ECA Energy Charge:	\$ 0.001274 / kWh x	14,180,183	\$ 18,065.55
Total Energy Charges:			\$ 450,915.64
Average Purchased Power Cost: 7.70 cents per kWh			Total Purchased Power Charges: \$ 1,092,367.60

Other Charges and Credits

NET AMOUNT DUE: \$ 1,092,367.60

* Getrag: units adjusted by loss factors of 0.997 for demand & 0.998 for energy.

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 10/14/16

Questions, please call: 317-573-9955

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

IMPA Delivery Point Details

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 08/11/16 at 1500 EST				Demand at IMPA's Coincident Peak on 08/11/16 at 1600 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	14,180,183						27,324	6,762	28,148	97.07%	26,996	6,485	27,764	97.23%
Tipton Dist. Gen.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipton #1	6,900,542	08/11/16 at 1600 EST	13,488	1,814	13,609	99.11%	13,382	1,882	13,514	99.03%	13,488	1,814	13,609	99.11%
Tipton #2	5,042,771	08/10/16 at 1500 EST	10,291	2,784	10,661	96.53%	10,080	2,736	10,445	96.51%	9,725	2,592	10,064	96.63%
Getrag Bank #1	29,043	08/10/16 at 1600 EST	72	22	75	95.64%	58	22	62	93.50%	58	22	62	93.50%
Getrag Bank #2	103,639	08/02/16 at 1500 EST	216	86	232	92.91%	216	94	236	91.69%	209	101	232	90.04%
Getrag Bank #3	578,496	08/10/16 at 1600 EST	1,032	612	1,200	86.01%	912	600	1,092	83.54%	972	600	1,142	85.09%
Getrag Bank #4	1,525,692	08/10/16 at 1500 EST	2,676	1,452	3,045	87.89%	2,676	1,428	3,033	88.22%	2,544	1,356	2,883	88.25%



IMPA

INDIANA MUNICIPAL POWER AGENCY

Tipton Municipal Utilities
P.O. Box 288
Tipton, IN 46072

Due Date:
11/14/16

Amount Due:
\$1,073,255.53

Billing Period: September 1 to 30, 2016

Invoice No: INV0006627
Invoice Date: 10/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	27,960	6,668	97.27%	09/07/16	1500	63.88%
CP Billing Demand:	27,960	6,668	97.27%	09/07/16	1500	63.88%
kvar at 97% PF:		7,007				
Reactive Demand:		-				

Energy*	kWh
Getrag Banks #1-4:	2,082,253
Tipton #1:	5,837,493
Tipton #2:	4,939,085
Tipton Dist. Gen.:	-
Total Energy:	12,858,831

History	Sep 2016	Sep 2015	2016 YTD
Max Demand (kW):	27,960	27,437	27,960
CP Demand (kW):	27,960	26,395	27,960
Energy (kWh):	12,858,831	12,714,660	111,449,969
CP Load Factor:	63.88%	66.90%	
HDD/CDD (Indianapolis):	18/213	19/191	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	27,960	\$ 621,550.80
ECA Demand Charge:	\$ 0.038 / kW x	27,960	\$ 1,062.48
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	27,960	\$ 41,744.28
Total Demand Charges:			\$ 664,357.56
Base Energy Charge:	\$ 0.030525 / kWh x	12,858,831	\$ 392,515.82
ECA Energy Charge:	\$ 0.001274 / kWh x	12,858,831	\$ 16,382.15
Total Energy Charges:			\$ 408,897.97
Average Purchased Power Cost: 8.35 cents per kWh			Total Purchased Power Charges: \$ 1,073,255.53

Other Charges and Credits

NET AMOUNT DUE: \$ 1,073,255.53

* Getrag: units adjusted by loss factors of 0.997 for demand & 0.998 for energy.

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 11/14/16

Questions, please call: 317-573-9955

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

IMPA Delivery Point Details

Tipton Municipal Utilities

Billing Period: September 1, 2016 to September 30, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 09/07/16 at 1500 EST				Demand at IMPA's Coincident Peak on 09/07/16 at 1500 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	12,858,831						27,960	6,668	28,744	97.27%	27,960	6,668	28,744	97.27%
Tipton Dist. Gen.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipton #1	5,837,493	09/07/16 at 1500 EST	13,978	2,218	14,153	98.76%	13,978	2,218	14,153	98.76%	13,978	2,218	14,153	98.76%
Tipton #2	4,939,085	09/23/16 at 1500 EST	10,666	3,274	11,157	95.60%	10,339	2,506	10,638	97.19%	10,339	2,506	10,638	97.19%
Getrag Bank #1	27,497	09/06/16 at 1400 EST	86	22	89	96.88%	72	22	75	95.64%	72	22	75	95.64%
Getrag Bank #2	84,572	09/06/16 at 1600 EST	202	79	217	93.13%	187	86	206	90.85%	187	86	206	90.85%
Getrag Bank #3	571,764	09/13/16 at 1600 EST	1,044	648	1,229	84.96%	900	612	1,088	82.69%	900	612	1,088	82.69%
Getrag Bank #4	1,398,420	09/07/16 at 2100 EST	2,508	1,296	2,823	88.84%	2,484	1,224	2,769	89.70%	2,484	1,224	2,769	89.70%

**Table 5 - September 30, 2016
2017 RATE STUDY
Proposed Demand and Energy Rates by Member**

LINE NO.	MEMBER	IMPA BASE RATE		DELIVERY VOLTAGE ADJUSTMENT		ENERGY COST ADJ.		TOTAL DEMAND	REACTIVE DEMAND	TOTAL ENERGY
		DEMAND \$/kW-Mo	ENERGY \$/kWh	DEMAND \$/kW-Mo	ENERGY Cents/kWh	DEMAND \$/kW-Mo	ENERGY \$/kWh	RATE \$/kW-Mo	RATE \$/kvar-Mo	RATE Cents/kWh
1	ADVANCE	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
2	ANDERSON	22.965	0.030565	0.458		0.416	-0.001775	23.839	1.200	0.028790
3	ARGOS	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
4	BAINBRIDGE	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
5	BARGERSVILLE	22.965	0.030565	1.260		0.416	-0.001775	24.641	1.200	0.028790
6	BLANCHESTER OH	22.965	0.030565	1.197		0.416	-0.001775	24.578	1.200	0.028790
7	BREMEN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
8	BROOKLYN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
9	BROOKSTON	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
10	CENTERVILLE	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
11	CHALMERS	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
12	COATESVILLE	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
13	COLUMBIA CITY	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
14	COVINGTON	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
15	CRAWFORDSVILLE	22.965	0.030565	0.000		0.416	-0.001775	23.381	1.200	0.028790
16	DARLINGTON	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
17	DUBLIN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
18	DUNREITH	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
19	EDINBURGH	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
20	ETNA GREEN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
21	FLORA	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
22	FRANKFORT	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
23	FRANKTON	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
24	GAS CITY	22.965	0.030565	0.000		0.416	-0.001775	23.381	1.200	0.028790
25	GREENDALE	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
26	GREENFIELD	22.965	0.030565	0.362		0.416	-0.001775	23.743	1.200	0.028790
27	HUNTINGBURG	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
28	JAMESTOWN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
29	JASPER	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
30	KINGSFORD HEIGHTS	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
31	KNIGHTSTOWN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
32	LADOGA	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
33	LAWRENCEBURG	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790

**Table 5 - September 30, 2016
2017 RATE STUDY
Proposed Demand and Energy Rates by Member**

LINE NO.	MEMBER	IMPA BASE RATE		DELIVERY VOLTAGE ADJUSTMENT		ENERGY COST ADJ.		TOTAL DEMAND RATE	REACTIVE DEMAND RATE	TOTAL ENERGY RATE
		DEMAND \$/kW-Mo	ENERGY \$/kWh	DEMAND \$/kW-Mo	ENERGY Cents/kWh	DEMAND \$/kW-Mo	ENERGY \$/kWh	\$/kW-Mo	\$/kvar-Mo	Cents/kWh
34	LEBANON	22.965	0.030565	1.054		0.416	-0.001775	24.435	1.200	0.028790
35	LEWISVILLE	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
36	LINTON	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
37	MIDDLETOWN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
38	MONTEZUMA	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
39	NEW ROSS	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
40	PAOLI	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
41	PENDLETON	22.965	0.030565	1.102		0.416	-0.001775	24.483	1.200	0.028790
42	PERU	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
43	PITTSBORO	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
44	RENSSELAER	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
45	RICHMOND	22.965	0.030565	0.000		0.416	-0.001775	23.381	1.200	0.028790
46	RISING SUN	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
47	ROCKVILLE	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
48	SCOTTSBURG	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
49	SOUTH WHITLEY	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
50	SPICELAND	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
51	STRAUGHN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
52	TELL CITY	22.965	0.030565	0.951		0.416	-0.001775	24.332	1.200	0.028790
53	THORNTOWN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
54	TIPTON	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
55	VEEDERSBURG	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
56	WALKERTON	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
57	WASHINGTON	22.965	0.030565	0.000		0.416	-0.001775	23.381	1.200	0.028790
58	WAYNETOWN	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
59	WILLIAMSPORT	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790
60	WINAMAC	22.965	0.030565	1.390		0.416	-0.001775	24.771	1.200	0.028790

* The ECA balance is spread over the 12 months of January to December