



TIPTON MUNICIPAL UTILITIES

Received: August 29, 2016
IURC 30-Day Filing No.: 3468
Indiana Utility Regulatory Commission

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Via Electronic Filing – 30 Day Filings – Electric

August 25, 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 October, November and December 2016. 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.

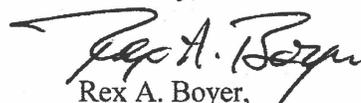
The person at the Tipton Municipal Electric Utility to be contacted regarding this filing is:

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
4TH QUARTER, 2016

BILLING AND USAGE PERIOD: OCTOBER THROUGH DECEMBER 2016

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	\$	0.036467 Per Kwh
RATE - B		0.038121 Per Kwh
RATE - C		0.040230 Per Kwh
RATE - D		0.033442 Per Kwh

MONTH'S EFFECTIVE:

OCT 2016

NOV 2016

DEC 2016

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	\$ (0.001642) Per Kwh
RATE - B	\$ (0.002165) Per Kwh
RATE - C	\$ (0.001931) Per Kwh
RATE - D	\$ (0.000424) 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:

STATE OF INDIANA)
COUNTY OF TIPTON)

SS:

Personally appeared before me, a Notary Public in and for said county and state, this 25th day of August, 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, 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 October 1, 2016 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	\$	(0.001642) / Kwh
RATE - B	\$	(0.002165) / Kwh
RATE - C	\$	(0.001931) / Kwh
RATE - D	\$	(0.000424) / 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 (\$1.64) 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 (\$1.15). This change stated as a percentage of the monthly bill will vary from individual to individual depending upon the actual amount of energy consumed.

LEGAL NOTICE

Notice is hereby given that the municipal electric utility of the City of Tipton, Indiana, 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, the following incremental changes to the Rate Adjustment factors by Rate Schedules:

Residential -	Rate A	Decrease	(\$0.001642)	per Kwh
Commercial -	Rate B	Decrease	(\$0.002165)	per Kwh
General & Industrial Power -	Rate C	Decrease	(\$0.001931)	per Kwh
Primary Power -	Rate D	Decrease	(\$0.000424)	per Kwh

Rate Adjustments applicable to the Rate Schedules are as follows:

Residential -	Rate A	\$0.036467	per Kwh
Commercial -	Rate B	\$0.038121	per Kwh
General & Industrial Power -	Rate C	\$0.040230	per Kwh
Primary Power -	Rate D	\$0.033442	per Kwh

The accompanying changes in schedules of rates 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, and dated December 13, 1989. If approved, this change of rate shall take effect for the bills to be rendered beginning with the October 2016 billing cycle. Objections to the changes can be made at either of the addresses below.

Indiana Utility Regulatory Commission
101 West Washington Street
Suite 1500 East
Indianapolis, IN 46204-3407

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

Tipton Municipal Electric Utility

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

Filing No. 4TH QTR 2016

Page 1 of 3

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
OCT 2016 NOV 2016 DEC 2016

LINE NO.	DESCRIPTION		DEMAND RELATED (A)	ENERGY RELATED (B)	LINE NO.
1	INCREMENTAL CHANGE IN BASE RATE (a)		10.241	0.014632	1
2	ESTIMATED SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+	0.000		2
3	ESTIMATED PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	0.038	0.001274	3
4	ESTIMATED TOTAL CHANGE IN PURCHASED POWER RATE		10.279	0.015906	4
5	EST CHANGE IN PURCHASED POWER RATE ADJ FOR LOSSES & UTILITY RECEIPTS TAX (d)		10.675	0.016519	5
6	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (e)	+	0.000	0.000000	6
7	ESTIMATED TOTAL RATE ADJUSTMENT		10.675	0.016519	7
8	ESTIMATED AVERAGE BILLING UNITS (f)	*	18,917	10,805,450	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 201,938.98	\$ 178,495.23	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) = 97.66%

(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. = 96.29%

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

(g) Line 7 times Line 8

CITY OF TIPTON, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
OCT 20 NOV 2016 DEC 2016

LINE NO.	RATE SCHEDULE	KW DEMAND	KWH ENERGY	ALLOCATED	ALLOCATED	INCREMENTAL CHANGE IN PURCHASED POWER COST			LINE NO.
		ALLOCATOR	ALLOCATOR	ESTIMATED KWH	ESTIMATED KWH	ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			
		(%) (a)	(%) (a)	PURCHASED (b)	PURCHASED (c)	DEMAND (d)	ENERGY (e)	TOTAL	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	
1	RATE - A	34.096	33.919	6,449.9	3,665,101	\$ 68,853.11	\$ 60,543.80	\$ 129,396.91	1
2	RATE - B	23.147	21.193	4,378.7	2,289,999	46,742.81	37,828.49	84,571.30	2
3	RATE - C	14.037	11.801	2,655.4	1,275,151	28,346.17	21,064.22	49,410.39	3
4	RATE - D	27.776	32.013	5,254.4	3,459,149	56,090.57	57,141.68	113,232.25	4
5	FLAT RATES	0.944	1.074	178.6	116,051	1,906.30	1,917.04	3,823.34	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>100.000</u>	<u>100.000</u>	<u>18,917.0</u>	<u>10,805,450</u>	<u>\$ 201,938.98</u>	<u>\$ 178,495.23</u>	<u>\$ 380,434.21</u>	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:
OCT 2016 NOV 2016 DEC 2016

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	DEMAND (b)	ENERGY (c)	TOTAL	DEMAND	ENERGY	TOTAL	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	
1	RATE - A	\$ 3,038.37	\$ 1,219.79	\$ 71,891.48	\$ 61,763.59	\$ 133,655.08	\$ 0.019615	\$0.016852	\$0.036467	1
2	RATE - B	1,994.12	730.67	48,736.93	38,559.16	87,296.09	0.021283	0.016838	0.038121	2
3	RATE - C	1,420.73	468.23	29,766.90	21,532.45	51,299.35	0.023344	0.016886	0.040230	3
4	RATE - D	2,069.01	377.99	58,159.58	57,519.67	115,679.25	0.016813	0.016628	0.033442	4
5	FLAT RATES	82.03	37.93	1,988.33	1,954.97	3,943.30	0.017133	0.016846	0.033979	5
6										6
7										7
8										8
9										9
10	TOTAL	\$ 8,604.27	\$ 2,834.61	\$ 210,543.23	\$ 181,329.84	\$ 391,873.07	\$ 0.019485	\$0.016781	\$0.036266	10

(a) Exhibit IV, Page 4 of 7, Columns D and E / (1 - loss factor)(.986) = 96.29%
Plus, the Special Variance from Page 2A of 3, Columns C and D
(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, 2016 (a)	\$ 23.723	\$ 0.030525	1
2	BASE RATE EFFECTIVE January 1, 2004 (b)	- 13.482	0.015893	2
3	INCREMENTAL CHANGE IN BASE RATE (c)	<u>\$10.241</u>	<u>\$0.014632</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:
OCT 20 NOV 2016 DEC 2016

LINE NO.	DESCRIPTION	OCT 2016 (A)	NOV 2016 (B)	DEC 2016 (C)	TOTAL (D)	ESTIMATED 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND	18,197	18,417	20,138	56,752	18,917	1
2	KWH ENERGY	10,576,520	10,397,483	11,442,346	32,416,349	10,805,450	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ 0.038	\$ 0.038	\$ 0.038		\$ 0.038	3
4	CHARGE (a)	\$ 691.49	\$ 699.85	\$ 765.24	\$ 2,156.58	\$ 718.86	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ 0.001274	\$ 0.001274	\$ 0.001274		\$ 0.001274	5
6	CHARGE (b)	\$ 13,474.49	\$ 13,246.39	\$ 14,577.55	\$ 41,298.43	\$ 13,766.14	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:
 APRIL 2016 MAY 2016 JUNE 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)	*	22,694	11,328,220	6
	LINE 5 * LINE 6		\$ 233,271.63	\$ 180,186.67	
	OTHER CHARGES		-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 233,271.63	\$ 180,186.67	7

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

	APRIL 2016	MAY 2016	JUNE 2016
Base Rate Effective 01/01/2016		minus	Base Rate Effective 01/01/2004
Demand	\$23,723,000		\$13,482,000
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:
 APRIL 2016 MAY 2016 JUNE 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	25.503	24.435	5,787.7	2,768,019	\$ 59,491.50	\$ 44,028.12	\$ 103,519.62	1
2	RATE - B	16.621	14.657	3,772.0	1,660,335	38,772.47	26,409.30	65,181.77	2
3	RATE - C	11.071	8.964	2,512.4	1,015,443	25,824.76	16,151.63	41,976.39	3
4	RATE - D	46.118	51.192	10,466.0	5,799,135	107,580.10	92,241.04	199,821.14	4
5	FLAT RATES	0.687	0.753	155.9	85,288	1,602.80	1,356.58	2,959.38	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>100.000</u>	<u>100.000</u>	<u>22,694.0</u>	<u>11,328,220</u>	<u>\$ 233,271.63</u>	<u>\$ 180,186.67</u>	<u>\$ 413,458.30</u>	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

APRIL 2016 MAY 2016 JUNE 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
 APRIL 2016 MAY 2016 JUNE 2016

LINE NO.	RATE SCHEDULE	ACTUAL	DEMAND	ENERGY	INCREMENTAL	INCREMENTAL	LESS PREV. VARIANCE - SYSTEM SALES		LINE NO.
		AVERAGE KWH SALES (a)	ADJUSTMENT FACTOR PER KWH (b)	ADJUSTMENT FACTOR PER KWH (c)	KW DEMAND COST BILLED BY MEMBER (d)	KWH ENERGY COST BILLED BY MEMBER (e)	FROM FILING NUMBER DEMAND (f)	APRIL 2016 ENERGY (g)	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	
1	RATE - A	2,628,867	0.021915	0.016435	\$ 56,805.06	\$ 42,600.55	\$ 239.21	\$ (253.03)	1
2	RATE - B	1,576,868	0.023832	0.016455	37,053.80	25,584.10	201.47	(121.64)	2
3	RATE - C	964,395	0.026958	0.016585	25,634.19	15,770.57	1,177.45	69.80	3
4	RATE - D	5,507,604	0.020104	0.017362	109,174.72	94,284.30	3,586.87	2,407.23	4
5	FLAT RATES	81,000	0.019161	0.016473	1,530.31	1,315.63	6.50	(4.43)	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>10,758,734</u>			<u>\$ 230,198.08</u>	<u>\$ 179,555.15</u>	<u>\$ 5,211.50</u>	<u>\$ 2,097.93</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

APRIL 2016	MAY 2016	JUNE 2016
APRIL 2016	MAY 2016	JUNE 2016
	0.986	
	0.986	
APRIL 2016	MAY 2016	JUNE 2016
APRIL 2016	MAY 2016	JUNE 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
 APRIL 2016 MAY 2016 JUNE 2016

LINE NO.	RATE SCHEDULE	NET INCREMENTAL COST BILLED BY MEMBER			VARIANCE			LINE NO.
		DEMAND (a) (A)	ENERGY (b) (B)	TOTAL (C)	DEMAND (c) (D)	ENERGY (c) (E)	TOTAL (c) (F)	
1	RATE - A	\$ 56,565.85	\$ 42,853.58	\$ 99,419.43	\$ 2,925.65	\$ 1,174.54	\$ 4,100.19	1
2	RATE - B	36,852.33	25,705.74	62,558.07	1,920.14	703.56	2,623.70	2
3	RATE - C	24,456.74	15,700.77	40,157.51	1,368.02	450.86	1,818.88	3
4	RATE - D	105,587.85	91,877.07	197,464.92	1,992.25	363.97	2,356.22	4
5	FLAT RATES	1,523.81	1,320.06	2,843.87	78.99	36.52	115.51	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 224,986.58</u>	<u>\$ 177,457.22</u>	<u>\$ 402,443.80</u>	<u>\$ 8,285.05</u>	<u>\$ 2,729.45</u>	<u>\$ 11,014.50</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

LINE NO.	DESCRIPTION	APRIL 2016	MAY 2016	JUNE 2016	TOTAL	ACTUAL 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)		(D)	
PURCHASED POWER FROM IMPA							
1	KW DEMAND (a)	19,203	22,579	26,301	68,083	22,694	1
2	KWH ENERGY (a)	10,612,420	10,792,255	12,579,986	33,984,661	11,328,220	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)	\$ 729.71	\$ 858.00	\$ 999.44	\$ 2,587.15	\$ 862.38	4
ENERGY RELATED							
5	ECA FACTOR PER KWH (a)	\$ 0.001274	\$ 0.001274	\$ 0.001274		\$ 0.001274	5
6	CHARGE (c)	\$ 13,520.22	\$ 13,749.33	\$ 16,026.90	\$ 43,296.46	\$ 14,432.15	6

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

APRIL 2016 MAY 2016 JUNE 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY
 DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF
 APRIL 2016 MAY 2016 JUNE 2016

LINE NO.	RATE SCHEDULE	APRIL 2016 (A)	MAY 2016 (B)	JUNE 2016 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	2,811,380	2,677,314	2,397,906	7,886,600	2,628,867	1
2	RATE - B	1,604,410	1,579,705	1,546,489	4,730,604	1,576,868	2
3	RATE - C	1,082,951	939,093	871,140	2,893,184	964,395	3
4	RATE - D	5,443,530	5,362,962	5,716,319	16,522,811	5,507,604	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>11,023,271</u>	<u>10,640,074</u>	<u>10,612,854</u>	<u>32,276,199</u>	<u>10,758,734</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

Rate Schedule	APRIL 2016		MAY 2016		JUNE 2016		kW Demand Allocator for 2009 (G)
	Average Sales	Percent of Total	kWh Energy Factors	Variance	kW Demand Factors	Adjusted Factors	
	(A)	(B)	(C)	(D)	(E)	(F)	
RATE - A	2,628,867	24.435%	33.919%	-27.962%	34.096%	24.562%	25.503%
RATE - B	1,576,868	14.657%	21.193%	-30.842%	23.147%	16.008%	16.621%
RATE - C	964,395	8.964%	11.801%	-24.042%	14.037%	10.662%	11.071%
RATE - D	5,507,604	51.192%	32.013%	59.910%	27.776%	44.417%	46.118%
FLAT RATES	81,000	0.753%	1.074%	-29.900%	0.944%	0.662%	0.687%
							0.000%
	10,758,734	100.000%	100.000%		100.000%	96.311%	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 OCTOBER, NOVEMBER and DECEMBER
 2016 - 4TH QUARTER**

	OCT	NOV	DEC	OCT	NOV	DEC
	\$/kW-month			\$/kWh		
IMPA's Energy Cost Adjustment	0.038	0.038	0.038	0.001274	0.001274	0.001274
	kW			kWh		
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for TIPTON	18,197	18,417	20,138	10,576,520	10,397,483	11,442,346



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
06/15/16

Amount Due:
\$793,746.82

Billing Period: April 1 to 30, 2016

Invoice No: INV0006224
Invoice Date: 05/16/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	19,497	3,101	98.76%	04/05/16	1000	75.60%
CP Billing Demand:	19,203	4,723	97.11%	04/26/16	1300	76.76%
kvar at 97% PF:		4,813				
Reactive Demand:		-				

Energy*	kWh
Getrag Banks #1-4:	1,671,849
Tipton #1:	5,047,894
Tipton #2:	3,890,997
Tipton Dist. Gen.:	1,680
Total Energy:	10,612,420

History	Apr 2016	Apr 2015	2016 YTD
Max Demand (kW):	19,497	18,630	25,011
CP Demand (kW):	19,203	18,255	24,243
Energy (kWh):	10,612,420	10,292,777	47,891,787
CP Load Factor:	76.76%	78.31%	
HDD/CDD (Indianapolis):	350/18	313/6	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	19,203	\$ 426,882.69
ECA Demand Charge:	\$ 0.038 / kW x	19,203	\$ 729.71
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	19,203	\$ 28,670.08
Total Demand Charges:			\$ 456,282.48
Base Energy Charge:	\$ 0.030525 / kWh x	10,612,420	\$ 323,944.12
ECA Energy Charge:	\$ 0.001274 / kWh x	10,612,420	\$ 13,520.22
Total Energy Charges:			\$ 337,464.34
Average Purchased Power Cost: 7.48 cents per kWh			Total Purchased Power Charges: \$ 793,746.82

Other Charges and Credits

NET AMOUNT DUE: \$ 793,746.82

* 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: 06/15/16

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

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 04/05/16 at 1000 EST				Demand at IMPA's Coincident Peak on 04/26/16 at 1300 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	10,612,420						19,497	3,101	19,742	98.76%	19,203	4,723	19,775	97.11%
Tipton Dist. Gen.	1,680		-	-	-	-	-	-	-	-	-	-	-	-
Tipton #1	5,047,894	04/05/16 at 0700 EST	9,744	874	9,783	99.60%	9,523	970	9,572	99.49%	9,130	1,776	9,301	98.16%
Tipton #2	3,890,997	04/08/16 at 0900 EST	7,642	902	7,695	99.31%	7,344	720	7,379	99.52%	7,085	1,152	7,178	98.70%
Getrag Bank #1	34,809	04/07/16 at 1500 EST	86	29	91	94.76%	50	7	50	99.03%	36	7	37	98.16%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	515,172	04/26/16 at 1600 EST	972	624	1,155	84.15%	828	588	1,016	81.53%	804	612	1,010	79.57%
Getrag Bank #4	1,121,868	04/26/16 at 1400 EST	2,184	1,188	2,486	87.84%	1,752	816	1,933	90.65%	2,148	1,176	2,449	87.71%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
07/14/16

Amount Due:
\$880,119.33

Billing Period: May 1 to 31, 2016
Invoice No: INV0006306
Invoice Date: 06/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	22,677	6,050	96.62%	05/31/16	1400	63.97%
CP Billing Demand:	22,579	6,023	96.62%	05/31/16	1500	64.24%
kvar at 97% PF:		5,659				
Reactive Demand:		364				

Energy*	kWh
Getrag Banks #1-4:	1,815,884
Tipton #1:	5,133,459
Tipton #2:	3,842,672
Tipton Dist. Gen.:	240
Total Energy:	10,792,255

History	May 2016	May 2015	2016 YTD
Max Demand (kW):	22,677	21,718	25,011
CP Demand (kW):	22,579	21,037	24,243
Energy (kWh):	10,792,255	11,218,591	58,684,042
CP Load Factor:	64.24%	71.68%	
HDD/CDD (Indianapolis):	159/83	79/140	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	22,579	\$ 501,931.17
ECA Demand Charge:	\$ 0.038 / kW x	22,579	\$ 858.00
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	22,579	\$ 33,710.45
Reactive Demand Charge:	\$ 1.200 / kvar x	364	\$ 436.80
Total Demand Charges:			\$ 536,936.42
Base Energy Charge:	\$ 0.030525 / kWh x	10,792,255	\$ 329,433.58
ECA Energy Charge:	\$ 0.001274 / kWh x	10,792,255	\$ 13,749.33
Total Energy Charges:			\$ 343,182.91
Average Purchased Power Cost: 8.16 cents per kWh			Total Purchased Power Charges: \$ 880,119.33

Other Charges and Credits

NET AMOUNT DUE: \$ 880,119.33

* 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: 07/14/16
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: May 1, 2016 to May 31, 2016

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>					<u>Demand at TIPTON's Maximum Peak on 05/31/16 at 1400 EST</u>				<u>Demand at IMPA's Coincident Peak on 05/31/16 at 1500 EST</u>			
		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	10,792,255						22,677	6,050	23,470	96.62%	22,579	6,023	23,369	96.62%
Tipton Dist. Gen.	240		-	-	-	-	-	-	-	-	-	-	-	-
Tipton #1	5,133,459	05/31/16 at 1400 EST	10,742	2,160	10,957	98.04%	10,742	2,160	10,957	98.04%	10,550	2,054	10,748	98.16%
Tipton #2	3,842,672	05/31/16 at 1500 EST	8,947	2,227	9,220	97.04%	8,822	2,160	9,083	97.13%	8,947	2,227	9,220	97.04%
Getrag Bank #1	31,700	05/09/16 at 0600 EST	72	22	75	95.64%	65	14	66	97.76%	58	14	60	97.21%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	558,132	05/31/16 at 1600 EST	1,008	600	1,173	85.93%	876	588	1,055	83.03%	852	600	1,042	81.76%
Getrag Bank #4	1,226,052	05/11/16 at 1400 EST	2,196	1,104	2,458	89.34%	2,172	1,128	2,447	88.75%	2,172	1,128	2,447	88.75%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
08/15/16

Amount Due:
\$1,025,038.63

Billing Period: June 1 to 30, 2016

Invoice No: INV0006393
Invoice Date: 07/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	26,439	6,787	96.86%	06/20/16	1400	66.08%
CP Billing Demand:	26,301	6,650	96.95%	06/20/16	1500	66.43%
kvar at 97% PF:		6,592				
Reactive Demand:		58				

Energy*	kWh
Getrag Banks #1-4:	1,987,918
Tipton #1:	6,044,981
Tipton #2:	4,547,087
Tipton Dist. Gen.:	-
Total Energy:	12,579,986

History	Jun 2016	Jun 2015	2016 YTD
Max Demand (kW):	26,439	25,329	26,439
CP Demand (kW):	26,301	23,897	26,301
Energy (kWh):	12,579,986	12,365,446	71,264,028
CP Load Factor:	66.43%	71.87%	
HDD/CDD (Indianapolis):	1/295	16/251	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	26,301	\$ 584,671.23
ECA Demand Charge:	\$ 0.038 / kW x	26,301	\$ 999.44
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	26,301	\$ 39,267.39
Reactive Demand Charge:	\$ 1.200 / kvar x	58	\$ 69.60
Total Demand Charges:			\$ 625,007.66
Base Energy Charge:	\$ 0.030525 / kWh x	12,579,986	\$ 384,004.07
ECA Energy Charge:	\$ 0.001274 / kWh x	12,579,986	\$ 16,026.90
Total Energy Charges:			\$ 400,030.97
Average Purchased Power Cost: 8.15 cents per kWh			Total Purchased Power Charges: \$ 1,025,038.63

Other Charges and Credits

NET AMOUNT DUE: \$ 1,025,038.63

* 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: 08/15/16

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

Tipton Municipal Utilities
 Billing Period: June 1, 2016 to June 30, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand				Demand at TIPTON's Maximum Peak on 06/20/16 at 1400 EST				Demand at IMPA's Coincident Peak on 06/20/16 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	12,579,986						26,439	6,787	27,296	96.86%	26,301	6,650	27,129	96.95%
Tipton Dist. Gen.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tipton #1	6,044,981	06/20/16 at 1400 EST	13,114	2,035	13,271	98.82%	13,114	2,035	13,271	98.82%	12,835	1,891	12,974	98.93%
Tipton #2	4,547,087	06/20/16 at 1500 EST	10,310	2,880	10,705	96.31%	10,147	2,842	10,537	96.29%	10,310	2,880	10,705	96.31%
Getrag Bank #1	30,262	06/18/16 at 1600 EST	72	22	75	95.64%	58	14	60	97.21%	36	7	37	98.16%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	582,144	06/08/16 at 1600 EST	1,056	600	1,215	86.95%	900	660	1,116	80.64%	900	636	1,102	81.67%
Getrag Bank #4	1,375,512	06/23/16 at 1400 EST	2,544	1,404	2,906	87.55%	2,220	1,236	2,541	87.37%	2,220	1,236	2,541	87.37%