



TIPTON MUNICIPAL UTILITIES

Received: May 16, 2016
IURC 30-Day Filing No.: 3444
Indiana Utility Regulatory Commission

P.O. Box 288
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Via Electronic Filing – 30 Day Filings – Electric

May 13, 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 July, August and September 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

ELECTRIC

• WATER

• WASTEWATER TREATMENT

TIPTON MUNICIPAL ELECTRIC UTILITY

ENERGY COST ADJUSTMENT TRACKING FACTOR
3RD QUARTER, 2016

BILLING AND USAGE PERIOD: JULY THROUGH SEPTEMBER 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	\$	0.038109 Per Kwh
RATE - B		0.040286 Per Kwh
RATE - C		0.042161 Per Kwh
RATE - D		0.033866 Per Kwh

MONTH'S EFFECTIVE:

JULY 2016

AUG 2016

SEPT 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	\$ (0.000242) Per Kwh
RATE - B	\$ (0.000001) Per Kwh
RATE - C	\$ (0.001382) Per Kwh
RATE - D	\$ (0.003600) 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 16th day of May, 2016 Rex Boyer, who, after having been duly sworn according to law, stated that she is an employee of Tipton Utilities; Tipton, Indiana, that she has read the matters and facts stated above, and in all exhibits attached hereto, and that the same are true; that she 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

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	(\$0.000242)	per Kwh
Commercial -	Rate B	Decrease	(\$0.000001)	per Kwh
General & Industrial Power -	Rate C	Decrease	(\$0.001382)	per Kwh
Primary Power -	Rate D	Decrease	(\$0.003600)	per Kwh

Rate Adjustments applicable to the Rate Schedules are as follows:

Residential -	Rate A	\$0.038109	per Kwh
Commercial -	Rate B	\$0.040286	per Kwh
General & Industrial Power -	Rate C	\$0.042161	per Kwh
Primary Power -	Rate D	\$0.033866	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 July 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

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

QUARTERLY ENERGY COST ADJUSTMENT FACTOR

On July 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	\$	(0.000242) / Kwh
RATE - B	\$	(0.000001) / Kwh
RATE - C	\$	(0.001382) / Kwh
RATE - D	\$	(0.003600) / 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 (\$0.24) 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 (\$0.17). 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. 3RD QTR 2016

Page 1 of 3

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
JULY 2016 AUG 2016 SEPT 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)	*	23,554	11,203,574	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 251,438.95	\$ 185,071.84	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:
JULY 2016 AUG 2016 SEPT 2016

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR (%) (a)	KWH ENERGY ALLOCATOR (%) (a)	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)	(B)	(C)	(D)	DEMAND (d) (E)	ENERGY (e) (F)	TOTAL (G)	
1	RATE - A	34.096	33.919	8,031.0	3,800,140	\$ 85,730.62	\$ 62,774.52	\$ 148,505.14	1
2	RATE - B	23.147	21.193	5,452.0	2,374,373	58,200.57	39,222.28	97,422.85	2
3	RATE - C	14.037	11.801	3,306.3	1,322,134	35,294.49	21,840.33	57,134.82	3
4	RATE - D	27.776	32.013	6,542.4	3,586,600	69,839.68	59,247.05	129,086.73	4
5	FLAT RATES	0.944	1.074	222.3	120,326	2,373.58	1,987.67	4,361.25	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	23,554.0	11,203,574	\$ 251,438.95	\$ 185,071.84	\$ 436,510.79	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:
JULY 2016 AUG 2016 SEPT 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 (A)	ENERGY (B)	DEMAND (b) (C)	ENERGY (c) (D)	TOTAL (E)	DEMAND (F)	ENERGY (G)	TOTAL (H)	
1	RATE - A	\$ (1,939.56)	\$ (1,746.78)	\$ 83,791.06	\$ 61,027.74	\$ 144,818.81	\$ 0.022049	\$0.016059	\$0.038109	1
2	RATE - B	(808.41)	(960.68)	57,392.16	38,261.60	95,653.76	0.024172	0.016114	0.040286	2
3	RATE - C	(795.19)	(596.48)	34,499.30	21,243.85	55,743.15	0.026094	0.016068	0.042161	3
4	RATE - D	(4,895.73)	(2,729.00)	64,943.95	56,518.05	121,462.00	0.018107	0.015758	0.033866	4
5	FLAT RATES	(25.73)	(45.06)	2,347.85	1,942.61	4,290.45	0.019512	0.016145	0.035657	5
6										6
7										7
8										8
9										9
10	TOTAL	<u>\$ (8,464.63)</u>	<u>\$ (6,077.99)</u>	<u>\$ 242,974.31</u>	<u>\$ 178,993.86</u>	<u>\$ 421,968.17</u>	<u>\$ 0.021687</u>	<u>\$0.015976</u>	<u>\$0.037664</u>	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)	-	<u>13.482</u>	<u>0.015893</u>	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:
JULY 2016 AUG 2016 SEPT 2016

LINE NO.	DESCRIPTION	JULY 2016 (A)	AUG 2016 (B)	SEPT 2016 (C)	TOTAL (D)	ESTIMATED 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND	23,640	23,667	23,354	70,661	23,554	1
2	KWH ENERGY	11,717,943	11,425,032	10,467,748	33,610,723	11,203,574	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ 0.038	\$ 0.038	\$ 0.038		\$ 0.038	3
4	CHARGE (a)	\$ 898.32	\$ 899.35	\$ 887.45	\$ 2,685.12	\$ 895.04	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ 0.001274	\$ 0.001274	\$ 0.001274		\$ 0.001274	5
6	CHARGE (b)	\$ 14,928.66	\$ 14,555.49	\$ 13,335.91	\$ 42,820.06	\$ 14,273.35	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:

JAN 2016 FEB 2016 MAR 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)	*	22,703	12,426,456	6
	LINE 5 * LINE 6		\$ 233,364.14	\$ 197,655.21	
	OTHER CHARGES		-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		<u>\$ 233,364.14</u>	<u>\$ 197,655.21</u>	7

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

	JAN 2016	FEB 2016	MAR 2016
Base Rate Effective 01/01/2016		minus	Base Rate Effective 01/01/2004
Demand	\$23.723000		\$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:
JAN 2016 FEB 2016 MAR 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	31.726	30.873	7,202.7	3,836,359	\$ 74,036.26	\$ 61,021.12	\$ 135,057.38	1
2	RATE - B	16.517	14.793	3,749.8	1,838,202	38,544.33	29,238.45	67,782.78	2
3	RATE - C	13.140	10.806	2,983.2	1,342,799	30,664.18	21,358.56	52,022.74	3
4	RATE - D	38.028	42.873	8,633.5	5,327,605	88,744.24	84,740.88	173,485.12	4
5	FLAT RATES	0.589	0.656	133.8	81,491	1,375.13	1,296.20	2,671.33	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	22,703.0	12,426,456	\$ 233,364.14	\$ 197,655.21	\$ 431,019.35	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

JAN 2016 FEB 2016 MAR 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
JAN 20 FEB 2016 MAR 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 (F)	JAN 2016 ENERGY (g) (G)	LINE NO.
1	RATE - A	3,813,223	0.020489	0.016226	\$ 77,035.32	\$ 61,007.13	\$ 1,131.46	\$ (1,695.96)	1
2	RATE - B	1,827,117	0.022305	0.016575	40,183.29	29,860.48	860.54	(303.01)	2
3	RATE - C	1,334,701	0.024150	0.016127	31,781.77	21,223.38	351.90	(709.53)	3
4	RATE - D	5,295,476	0.018732	0.016764	97,806.13	87,530.53	4,347.79	161.90	4
5	FLAT RATES	81,000	0.017903	0.016560	1,429.84	1,322.58	29.93	(17.01)	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>12,351,517</u>			<u>\$ 248,236.35</u>	<u>\$ 200,944.10</u>	<u>\$ 6,721.62</u>	<u>\$ (2,563.61)</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

JAN 2016

JAN 2016

0.986

0.986

JAN 2016

JAN 2016

FEB 2016

FEB 2016

FEB 2016

FEB 2016

MAR 2016

MAR 2016

MAR 2016

MAR 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY
RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
JAN 2016 FEB 2016 MAR 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	\$ 75,903.86	\$ 62,703.09	\$ 138,606.95	\$ (1,867.60)	\$ (1,681.97)	\$ (3,549.57)	1
2	RATE - B	39,322.75	30,163.49	69,486.24	(778.42)	(925.04)	(1,703.46)	2
3	RATE - C	31,429.87	21,932.91	53,362.78	(765.69)	(574.35)	(1,340.04)	3
4	RATE - D	93,458.34	87,368.63	180,826.97	(4,714.10)	(2,627.75)	(7,341.85)	4
5	FLAT RATES	1,399.91	1,339.59	2,739.50	(24.78)	(43.39)	(68.17)	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 241,514.73</u>	<u>\$ 203,507.71</u>	<u>\$ 445,022.44</u>	<u>\$ (8,150.59)</u>	<u>\$ (5,852.50)</u>	<u>\$ (14,003.09)</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

		JAN 2016	FEB 2016	MAR 2016			
LINE NO.	DESCRIPTION	JAN 2016 (A)	FEB 2016 (B)	MAR 2016 (C)	TOTAL (D)	ACTUAL 3 MONTH AVERAGE (E)	LINE NO.
	PURCHASED POWER FROM IMPA						
1	KW DEMAND (a)	24,243	23,016	20,849	68,108	22,703	1
2	KWH ENERGY (a)	13,743,710	12,285,215	11,250,442	37,279,367	12,426,456	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)	\$ 921.23	\$ 874.61	\$ 792.26	\$ 2,588.10	\$ 862.70	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH (a)	\$ 0.001274	\$ 0.001274	\$ 0.001274		\$ 0.001274	5
6	CHARGE (c)	\$ 17,509.49	\$ 15,651.36	\$ 14,333.06	\$ 47,493.91	\$ 15,831.30	6

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

JAN 2016

FEB 2016

MAR 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY
DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF
JAN 2016 FEB 2016 MAR 2016

LINE NO.	RATE SCHEDULE	JAN 2016 (A)	FEB 2016 (B)	MAR 2016 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	3,343,924	4,206,932	3,888,812	11,439,668	3,813,223	1
2	RATE - B	1,749,213	1,908,911	1,823,227	5,481,351	1,827,117	2
3	RATE - C	1,224,251	1,395,820	1,384,032	4,004,103	1,334,701	3
4	RATE - D	5,523,189	5,116,829	5,246,409	15,886,427	5,295,476	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>11,921,577</u>	<u>12,709,492</u>	<u>12,423,480</u>	<u>37,054,549</u>	<u>12,351,517</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

	JAN 2016	FEB 2016	MAR 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	3,813,223	30.873%	33.919%	-8.982%	34.096%	31.034%	31.726%
RATE - B	1,827,117	14.793%	21.193%	-30.200%	23.147%	16.157%	16.517%
RATE - C	1,334,701	10.806%	11.801%	-8.432%	14.037%	12.853%	13.140%
RATE - D	5,295,476	42.873%	32.013%	33.924%	27.776%	37.199%	38.028%
FLAT RATES	81,000	0.656%	1.074%	-38.939%	0.944%	0.576%	0.589%
							0.000%
	12,351,517	100.000%	100.000%		100.000%	97.819%	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 JULY, AUGUST and SEPTEMBER
2016 - 3RD QUARTER**

	JUL	AUG	SEP	JUL	AUG	SEP
	\$/kW-month			\$/kWh		
IMPA's Energy Cost Adjustment	0.038	0.038	0.038	0.001274	0.001274	0.001274
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for TIPTON	kW			kWh		
	23,640	23,667	23,354	11,717,943	11,425,032	10,467,748



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
03/16/16

Amount Due:
\$1,013,074.16

Billing Period: January 1 to 31, 2016

Invoice No: INV0005955
Invoice Date: 02/15/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	25,011	3,626	98.97%	01/18/16	1000	73.86%
CP Billing Demand:	24,243	3,631	98.90%	01/19/16	900	76.20%
kvar at 97% PF:		6,076				
Reactive Demand:		-				

Energy*	kWh
Tipton #1:	6,374,072
Tipton #2:	5,573,631
Getrag Bank #1:	59,271
Getrag Bank #2:	-
Getrag Bank #3:	585,432
Getrag Bank #4:	1,151,304
Total Energy:	13,743,710

History	Jan 2016	Jan 2015	2016 YTD
Max Demand (kW):	25,011	25,750	25,011
CP Demand (kW):	24,243	25,750	24,243
Energy (kWh):	13,743,710	13,964,481	13,743,710
CP Load Factor:	76.20%	72.89%	
HDD/CDD (Indianapolis):	1112/0	1224/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	24,243	\$ 538,921.89
ECA Demand Charge:	\$ 0.038 / kW x	24,243	\$ 921.23
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	24,243	\$ 36,194.80
Total Demand Charges:			\$ 576,037.92
Base Energy Charge:	\$ 0.030525 / kWh x	13,743,710	\$ 419,526.75
ECA Energy Charge:	\$ 0.001274 / kWh x	13,743,710	\$ 17,509.49
Total Energy Charges:			\$ 437,036.24
Average Purchased Power Cost: 7.37 cents per kWh			Total Purchased Power Charges: \$ 1,013,074.16

Other Charges and Credits

NET AMOUNT DUE: \$ 1,013,074.16

* 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: 03/16/16

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: January 1, 2016 to January 31, 2016

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>					<u>Demand at TIPTON's Maximum Peak on 01/18/16 at 1000 EST</u>				<u>Demand at IMPA's Coincident Peak on 01/19/16 at 0900 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	13,743,710						25,011	3,626	25,272	98.97%	24,243	3,631	24,513	98.90%
Tipton #1	6,374,072	01/18/16 at 0900 EST	12,739	1,258	12,801	99.52%	12,576	1,200	12,633	99.55%	12,173	1,286	12,241	99.45%
Tipton #2	5,573,631	01/18/16 at 1000 EST	10,301	1,459	10,404	99.01%	10,301	1,459	10,404	99.01%	9,168	826	9,205	99.60%
Getrag Bank #1	59,271	01/22/16 at 0700 EST	115	22	117	98.22%	94	7	94	99.72%	94	7	94	99.72%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	585,432	01/04/16 at 1700 EST	1,068	612	1,231	86.76%	744	408	849	87.68%	912	600	1,092	83.54%
Getrag Bank #4	1,151,304	01/05/16 at 0700 EST	2,136	1,128	2,416	88.43%	1,296	552	1,409	92.00%	1,896	912	2,104	90.12%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
04/13/16

Amount Due:
\$937,540.73

Billing Period: February 1 to 29, 2016

Invoice No: INV0006038
Invoice Date: 03/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	23,023	3,621	98.79%	02/11/16	900	76.67%
CP Billing Demand:	23,016	3,396	98.93%	02/11/16	800	76.69%
kvar at 97% PF:		5,768				
Reactive Demand:		-				

Energy*	kWh
Tipton #1:	5,779,483
Tipton #2:	4,833,223
Getrag Bank #1:	57,369
Getrag Bank #2:	-
Getrag Bank #3:	568,440
Getrag Bank #4:	1,046,700
Total Energy:	12,285,215

History	Feb 2016	Feb 2015	2016 YTD
Max Demand (kW):	23,023	25,458	25,011
CP Demand (kW):	23,016	25,458	24,243
Energy (kWh):	12,285,215	13,046,083	26,028,925
CP Load Factor:	76.69%	73.63%	
HDD/CDD (Indianapolis):	869/0	1249/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	23,016	\$ 511,645.68
ECA Demand Charge:	\$ 0.038 / kW x	23,016	\$ 874.61
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	23,016	\$ 34,362.89
Total Demand Charges:			\$ 546,883.18
Base Energy Charge:	\$ 0.030525 / kWh x	12,285,215	\$ 375,006.19
ECA Energy Charge:	\$ 0.001274 / kWh x	12,285,215	\$ 15,651.36
Total Energy Charges:			\$ 390,657.55
Average Purchased Power Cost: 7.63 cents per kWh			Total Purchased Power Charges: \$ 937,540.73

Other Charges and Credits

NET AMOUNT DUE: \$ 937,540.73

* 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: 04/13/16

Questions, please call: 317-573-9955

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

IMPA Delivery Point Details

Tipton Municipal Utilities

Billing Period: February 1, 2016 to February 29, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 02/11/16 at 0900 EST				Demand at IMPA's Coincident Peak on 02/11/16 at 0800 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	12,285,215						23,023	3,621	23,306	98.79%	23,016	3,396	23,265	98.93%
Tipton #1	5,779,483	02/11/16 at 0800 EST	11,472	1,123	11,527	99.52%	11,318	1,190	11,380	99.45%	11,472	1,123	11,527	99.52%
Tipton #2	4,833,223	02/10/16 at 2100 EST	9,139	998	9,193	99.41%	8,851	1,056	8,914	99.30%	8,726	922	8,775	99.45%
Getrag Bank #1	57,369	02/04/16 at 1500 EST	115	14	116	99.27%	94	7	94	99.72%	94	7	94	99.72%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	568,440	02/24/16 at 1700 EST	1,092	600	1,246	87.64%	924	600	1,102	83.87%	912	588	1,085	84.05%
Getrag Bank #4	1,046,700	02/04/16 at 0800 EST	1,956	852	2,134	91.68%	1,836	768	1,990	92.25%	1,812	756	1,963	92.29%



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

Due Date:
05/16/16

Amount Due:
\$853,145.89

Billing Period: March 1 to 31, 2016

Invoice No: INV0006132
Invoice Date: 04/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	21,081	3,317	98.78%	03/03/16	1100	71.73%
CP Billing Demand:	20,849	2,746	99.14%	03/02/16	800	72.53%
kvar at 97% PF:		5,225				
Reactive Demand:		-				

Energy*	kWh
Tipton #1:	5,326,547
Tipton #2:	4,378,833
Getrag Bank #1:	39,194
Getrag Bank #2:	-
Getrag Bank #3:	535,476
Getrag Bank #4:	970,392
Total Energy:	11,250,442

History	Mar 2016	Mar 2015	2016 YTD
Max Demand (kW):	21,081	22,582	25,011
CP Demand (kW):	20,849	22,416	24,243
Energy (kWh):	11,250,442	12,304,633	37,279,367
CP Load Factor:	72.53%	73.78%	
HDD/CDD (Indianapolis):	482/0	790/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	20,849	\$ 463,473.27
ECA Demand Charge:	\$ 0.038 / kW x	20,849	\$ 792.26
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	20,849	\$ 31,127.56
Total Demand Charges:			\$ 495,393.09
Base Energy Charge:	\$ 0.030525 / kWh x	11,250,442	\$ 343,419.74
ECA Energy Charge:	\$ 0.001274 / kWh x	11,250,442	\$ 14,333.06
Total Energy Charges:			\$ 357,752.80
Average Purchased Power Cost: 7.58 cents per kWh			Total Purchased Power Charges: \$ 853,145.89

Other Charges and Credits

NET AMOUNT DUE: \$ 853,145.89

* 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: 05/16/16

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: March 1, 2016 to March 31, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 03/03/16 at 1100 EST				Demand at IMPA's Coincident Peak on 03/02/16 at 0800 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	11,250,442						21,081	3,317	21,340	98.78%	20,849	2,746	21,029	99.14%
Tipton #1	5,326,547	03/02/16 at 0800 EST	10,397	874	10,434	99.65%	9,926	835	9,961	99.65%	10,397	874	10,434	99.65%
Tipton #2	4,378,833	03/01/16 at 2000 EST	8,438	797	8,476	99.56%	8,256	1,066	8,325	99.18%	7,661	480	7,676	99.80%
Getrag Bank #1	39,194	03/04/16 at 1500 EST	108	14	109	99.17%	79	-	79	100.00%	79	-	79	100.00%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	535,476	03/02/16 at 1700 EST	1,068	624	1,237	86.34%	948	588	1,116	84.98%	924	600	1,102	83.87%
Getrag Bank #4	970,392	03/02/16 at 1500 EST	1,956	876	2,143	91.27%	1,872	828	2,047	91.45%	1,788	792	1,956	91.43%