



TIPTON MUNICIPAL UTILITIES

Received: February 23, 2016
IURC 30-Day Filing No.: 3424
Indiana Utility Regulatory Commission

P.O. Box 288
Tipton, IN 46072-0288
Office: 765-675-7629
Fax: 765-675-9048

Via Electronic Filing – 30 Day Filings – Electric

February 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 April, May and June 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
2ND QUARTER, 2016

BILLING AND USAGE PERIOD: APRIL THROUGH JUNE 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	\$	0.038351 Per Kwh
RATE - B		0.040287 Per Kwh
RATE - C		0.043543 Per Kwh
RATE - D		0.037466 Per Kwh

MONTH'S EFFECTIVE:

APRIL 2016

MAY 2016

JUNE 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	\$ 0.001636 Per Kwh
RATE - B	\$ 0.001407 Per Kwh
RATE - C	\$ 0.003266 Per Kwh
RATE - D	\$ 0.001969 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 18th day of February 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	Increase	\$0.001636	per Kwh
Commercial -	Rate B	Increase	\$0.001407	per Kwh
General & Industrial Power -	Rate C	Increase	\$0.003266	per Kwh
Primary Power -	Rate D	Increase	\$0.001969	per Kwh

Rate Adjustments applicable to the Rate Schedules are as follows:

Residential -	Rate A	\$0.038351	per Kwh
Commercial -	Rate B	\$0.040287	per Kwh
General & Industrial Power -	Rate C	\$0.043543	per Kwh
Primary Power -	Rate D	\$0.037466	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 April 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 April 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	\$	0.001636 / Kwh
RATE - B	\$	0.001407 / Kwh
RATE - C	\$	0.003266 / Kwh
RATE - D	\$	0.001969 / 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 an increase 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.

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

Filing No. 2ND QTR 2016

Page 1 of 3

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
 APRIL 2016 MAY 2016 JUNE 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)	*	18,845	9,260,807	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 201,170.38	\$ 152,979.27	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:
APRIL 21 MAY 2016 JUNE 2016

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)	(%) (a) (B)	(C)	(D)	DEMAND (d) (E)	ENERGY (e) (F)	TOTAL (G)	
1	RATE - A	34.096	33.919	6,425.4	3,141,173	\$ 68,591.05	\$ 51,889.04	\$ 120,480.09	1
2	RATE - B	23.147	21.193	4,362.1	1,962,643	46,564.91	32,420.90	78,985.81	2
3	RATE - C	14.037	11.801	2,645.3	1,092,868	28,238.29	18,053.08	46,291.37	3
4	RATE - D	27.776	32.013	5,234.4	2,964,662	55,877.08	48,973.25	104,850.33	4
5	FLAT RATES	0.944	1.074	177.9	99,461	1,899.05	1,643.00	3,542.05	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>100.000</u>	<u>100.000</u>	<u>18,845.0</u>	<u>9,260,807</u>	<u>\$ 201,170.38</u>	<u>\$ 152,979.27</u>	<u>\$ 354,149.65</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:
APRIL 2016 MAY 2016 JUNE 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	\$ 248.43	\$ (262.78)	\$ 68,839.48	\$ 51,626.26	\$ 120,465.74	\$ 0.021915	\$0.016435	\$0.038351	1
2	RATE - B	209.23	(126.33)	46,774.14	32,294.57	79,068.72	0.023832	0.016455	0.040287	2
3	RATE - C	1,222.82	72.49	29,461.11	18,125.57	47,586.68	0.026958	0.016585	0.043543	3
4	RATE - D	3,725.07	2,499.98	59,602.15	51,473.23	111,075.38	0.020104	0.017362	0.037466	4
5	FLAT RATES	6.75	(4.60)	1,905.80	1,638.40	3,544.20	0.019161	0.016473	0.035634	5
6										6
7										7
8										8
9										9
10	TOTAL	<u>\$ 5,412.30</u>	<u>\$ 2,178.76</u>	<u>\$ 206,582.68</u>	<u>\$ 155,158.03</u>	<u>\$ 361,740.71</u>	<u>\$ 0.022307</u>	<u>\$0.016754</u>	<u>\$0.039061</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 <u>January 1, 2016</u> (a)	\$ 23.723	\$ 0.030525	1
2	BASE RATE EFFECTIVE <u>January 1, 2004</u> (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:
APRIL 2016 MAY 2016 JUNE 2016

LINE NO.	DESCRIPTION	APRIL 2016 (A)	MAY 2016 (B)	JUNE 2016 (C)	TOTAL (D)	ESTIMATED 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND	15,781	18,041	22,713	56,535	18,845	1
2	KWH ENERGY	8,746,315	8,869,775	10,166,331	27,782,421	9,260,807	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ 0.038	\$ 0.038	\$ 0.038		\$ 0.038	3
4	CHARGE (a)	\$ 599.68	\$ 685.56	\$ 863.09	\$ 2,148.33	\$ 716.11	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ 0.001274	\$ 0.001274	\$ 0.001274		\$ 0.001274	5
6	CHARGE (b)	\$ 11,142.81	\$ 11,300.09	\$ 12,951.91	\$ 35,394.80	\$ 11,798.27	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:
 OCT 2015 NOV 2015 DEC 2015

LINE NO.	DESCRIPTION		DEMAND RELATED	ENERGY RELATED	LINE NO.
			(A)	(B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)		\$ 8.8960	\$ 0.014888	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+			2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	0.087	0.002460	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO IMPA MEMBERSHIP (d)	+	0.000	0.000000	4
5	TOTAL RATE ADJUSTMENT (e)		8.983	\$ 0.017348	5
6	ACTUAL AVERAGE BILLING UNITS (f)	*	20,963	11,917,853	6
	LINE 5 * LINE 6		\$ 188,310.63	\$ 206,750.91	
	OTHER CHARGES		-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		<u>\$ 188,310.63</u>	<u>\$ 206,750.91</u>	7

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

	OCT 2015	NOV 2015	DEC 2015
Base Rate Effective 01/01/2015		minus	Base Rate Effective 01/01/2004
Demand	\$22.378000		\$13.482000
Energy	\$0.030781		\$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:
 OCT 2015 NOV 2015 DEC 2015

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	23.171	22.503	4,857.3	2,681,858	\$ 43,633.45	\$ 46,524.87	\$ 90,158.32	1
2	RATE - B	15.818	14.138	3,315.9	1,684,985	29,786.65	29,231.11	59,017.76	2
3	RATE - C	17.340	14.231	3,635.0	1,696,060	32,652.77	29,423.24	62,076.01	3
4	RATE - D	43.037	48.423	9,021.8	5,770,947	81,042.70	100,114.39	181,157.09	4
5	FLAT RATES	0.635	0.705	133.0	84,004	1,195.06	1,457.29	2,652.35	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>100.000</u>	<u>100.000</u>	<u>20,963.0</u>	<u>11,917,853</u>	<u>\$ 188,310.63</u>	<u>\$ 206,750.91</u>	<u>\$ 395,061.54</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

OCT 2015 NOV 2015 DEC 2015

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
 OCT 20 NOV 2015 DEC 2015

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	OCT 2015	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	
1	RATE - A	2,585,968	0.015884	0.018013	\$ 40,500.46	\$ 45,928.91	\$ (2,893.78)	\$ (848.99)	1
2	RATE - B	1,624,738	0.017291	0.018053	27,700.04	28,920.76	(1,885.14)	(431.99)	2
3	RATE - C	1,635,417	0.018699	0.018060	30,152.53	29,122.13	(1,322.79)	(231.31)	3
4	RATE - D	5,564,607	0.013640	0.016940	74,838.62	92,944.74	(2,617.21)	(4,762.42)	4
5	FLAT RATES	81,000	0.013909	0.018098	1,110.86	1,445.41	(77.70)	(16.31)	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>11,491,730</u>			<u>\$ 174,302.51</u>	<u>\$ 198,361.95</u>	<u>\$ (8,796.62)</u>	<u>\$ (6,291.02)</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

OCT 2015	NOV 2015	DEC 2015
OCT 2015	NOV 2015	DEC 2015
	0.986	
	0.986	
OCT 2015	NOV 2015	DEC 2015
OCT 2015	NOV 2015	DEC 2015

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY
RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
 OCT 2015 NOV 2015 DEC 2015

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	\$ 43,394.24	\$ 46,777.90	\$ 90,172.14	\$ 239.21	\$ (253.03)	\$ (13.82)	1
2	RATE - B	29,585.18	29,352.75	58,937.93	201.47	(121.64)	79.83	2
3	RATE - C	31,475.32	29,353.44	60,828.76	1,177.45	69.80	1,247.25	3
4	RATE - D	77,455.83	97,707.16	175,162.99	3,586.87	2,407.23	5,994.10	4
5	FLAT RATES	1,188.56	1,461.72	2,650.28	6.50	(4.43)	2.07	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 183,099.13</u>	<u>\$ 204,652.97</u>	<u>\$ 387,752.10</u>	<u>\$ 5,211.50</u>	<u>\$ 2,097.93</u>	<u>\$ 7,309.43</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 AVERAGE KWH SALES FOR THE THREE MONTHS OF
 OCT 2015 NOV 2015 DEC 2015

LINE NO.	RATE SCHEDULE	OCT 2015 (A)	NOV 2015 (B)	DEC 2015 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	2,894,231	2,297,988	2,565,684	7,757,903	2,585,968	1
2	RATE - B	1,739,918	1,598,336	1,535,961	4,874,215	1,624,738	2
3	RATE - C	1,580,550	1,757,024	1,568,677	4,906,251	1,635,417	3
4	RATE - D	5,611,986	5,684,037	5,397,798	16,693,821	5,564,607	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>11,907,685</u>	<u>11,418,385</u>	<u>11,149,120</u>	<u>34,475,190</u>	<u>11,491,730</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

Rate Schedule	OCT 2015		NOV 2015		DEC 2015		kW Demand Allocator for 2009 (G)
	Average Sales (A)	Percent of Total (B)	kWh Energy Factors (C)	Variance (D)	kW Demand Factors (E)	Adjusted Factors (F)	
	RATE - A	2,585,968	22.503%	33.919%	-33.657%	34.096%	
RATE - B	1,624,738	14.138%	21.193%	-33.288%	23.147%	15.442%	15.818%
RATE - C	1,635,417	14.231%	11.801%	20.594%	14.037%	16.928%	17.340%
RATE - D	5,564,607	48.423%	32.013%	51.260%	27.776%	42.014%	43.037%
FLAT RATES	81,000	0.705%	1.074%	-34.371%	0.944%	0.620%	0.635%
							0.000%
	11,491,730	100.000%	100.000%		100.000%	97.623%	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)



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
12/16/15

Amount Due:
\$873,754.83

Invoice No: INV0005691
Invoice Date: 11/16/15

Billing Period: October 1 to 31, 2015

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	21,269	6,079	96.15%	10/08/15	1300	75.16%
CP Billing Demand:	21,245	6,264	95.92%	10/08/15	1400	75.25%
kvar at 97% PF:		5,324				
Reactive Demand:		940				

Energy*	kWh
Tipton #1:	5,144,851
Tipton #2:	5,044,728
Getrag Bank #1:	32,683
Getrag Bank #2:	-
Getrag Bank #3:	436,932
Getrag Bank #4:	1,234,488
Total Energy:	11,893,682

History	Oct 2015	Oct 2014	2015 YTD
Max Demand (kW):	21,269	20,722	27,437
CP Demand (kW):	21,245	20,330	26,978
Energy (kWh):	11,893,682	12,030,342	124,096,249
CP Load Factor:	75.25%	79.54%	
HDD/CDD (Indianapolis):	258/14	335/9	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 / kW x	21,245	\$ 443,956.77
ECA Demand Charge:	\$ 0.087 / kW x	21,245	\$ 1,848.32
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.481 / kW x	21,245	\$ 31,463.85
Reactive Demand Charge:	\$ 1.200 / kvar x	940	\$ 1,128.00
Total Demand Charges:			\$ 478,396.94
Base Energy Charge:	\$ 0.030781 / kWh x	11,893,682	\$ 366,099.43
ECA Energy Charge:	\$ 0.002460 / kWh x	11,893,682	\$ 29,258.46
Total Energy Charges:			\$ 395,357.89
Average Purchased Power Cost: 7.35 cents per kWh			Total Purchased Power Charges: \$ 873,754.83

Other Charges and Credits

NET AMOUNT DUE: \$ 873,754.83

* Getrag: units adjusted by 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: 12/16/15

Questions, please call: 317-573-9955

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

IMPA Delivery Point Details

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	Individual Substation Maximum Demand				Demand at TIPTON's Maximum Peak on 10/08/15 at 1300 EST				Demand at IMPA's Coincident Peak on 10/08/15 at 1400 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	11,893,682						21,269	6,079	22,121	96.15%	21,245	6,264	22,149	95.92%
Tipton #1	5,144,851	10/19/15 at 1000 EST	9,168	1,123	9,237	99.26%	9,091	1,622	9,235	98.45%	8,909	1,574	9,047	98.47%
Tipton #2	5,044,728	10/08/15 at 1400 EST	9,504	3,130	10,006	94.98%	9,322	2,938	9,774	95.38%	9,504	3,130	10,006	94.98%
Getrag Bank #1	32,683	10/01/15 at 0400 EST	72	14	73	98.16%	36	7	37	98.16%	36	-	36	100.00%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	436,932	10/05/15 at 1600 EST	864	516	1,006	85.85%	696	516	866	80.33%	684	516	857	79.83%
Getrag Bank #4	1,234,488	10/05/15 at 1400 EST	2,316	1,224	2,620	88.41%	2,124	996	2,346	90.54%	2,112	1,044	2,356	89.65%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
01/13/16

Amount Due:
\$856,220.13

Billing Period: November 1 to 30, 2015

Invoice No: INV0005780
Invoice Date: 12/14/15

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	21,106	4,207	98.07%	11/23/15	1100	76.18%
CP Billing Demand:	20,983	3,739	98.45%	11/23/15	900	76.63%
kvar at 97% PF:		5,259				
Reactive Demand:		-				

Energy*	kWh
Tipton #1:	5,175,544
Tipton #2:	4,737,167
Getrag Bank #1:	40,977
Getrag Bank #2:	-
Getrag Bank #3:	429,576
Getrag Bank #4:	1,193,916
Total Energy:	11,577,180

History	Nov 2015	Nov 2014	2015 YTD
Max Demand (kW):	21,106	23,311	27,437
CP Demand (kW):	20,983	21,778	26,978
Energy (kWh):	11,577,180	12,649,096	135,673,429
CP Load Factor:	76.63%	80.67%	
HDD/CDD (Indianapolis):	509/4	865/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 / kW x	20,983	\$ 438,481.75
ECA Demand Charge:	\$ 0.087 / kW x	20,983	\$ 1,825.52
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.481 / kW x	20,983	\$ 31,075.82
Total Demand Charges:			\$ 471,383.09
Base Energy Charge:	\$ 0.030781 / kWh x	11,577,180	\$ 356,357.18
ECA Energy Charge:	\$ 0.002460 / kWh x	11,577,180	\$ 28,479.86
Total Energy Charges:			\$ 384,837.04
Average Purchased Power Cost: 7.40 cents per kWh			Total Purchased Power Charges: \$ 856,220.13

Other Charges and Credits

NET AMOUNT DUE: \$ 856,220.13

* Getrag: units adjusted by 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: 01/13/16

Questions, please call: 317-573-9955

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

IMPA Delivery Point Details

Tipton Municipal Utilities

Billing Period: November 1, 2015 to November 30, 2015

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>					<u>Demand at TIPTON's Maximum Peak on 11/23/15 at 1100 EST</u>				<u>Demand at IMPA's Coincident Peak on 11/23/15 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	11,577,180						21,106	4,207	21,521	98.07%	20,983	3,739	21,314	98.45%
Tipton #1	5,175,544	11/23/15 at 0900 EST	10,090	1,037	10,143	99.48%	9,898	1,123	9,962	99.36%	10,090	1,037	10,143	99.48%
Tipton #2	4,737,167	11/24/15 at 1000 EST	8,573	1,363	8,681	98.76%	8,506	1,469	8,632	98.54%	8,227	1,152	8,307	99.03%
Getrag Bank #1	40,977	11/24/15 at 0600 EST	108	22	110	97.99%	86	7	86	99.67%	86	14	87	98.70%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	429,576	11/18/15 at 1700 EST	888	564	1,052	84.41%	708	528	883	80.16%	672	504	840	80.00%
Getrag Bank #4	1,193,916	11/04/15 at 1400 EST	2,256	1,200	2,555	88.29%	1,908	1,080	2,192	87.03%	1,908	1,032	2,169	87.96%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
02/15/16

Amount Due:
\$872,438.50

Billing Period: December 1 to 31, 2015

Invoice No: INV0005861
Invoice Date: 01/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	21,216	4,157	98.13%	12/17/15	1100	77.81%
CP Billing Demand:	20,661	3,065	98.92%	12/17/15	1900	79.90%
kvar at 97% PF:		5,178				
Reactive Demand:		-				

Energy*	kWh
Tipton #1:	5,638,835
Tipton #2:	5,031,831
Getrag Bank #1:	43,043
Getrag Bank #2:	-
Getrag Bank #3:	464,832
Getrag Bank #4:	1,104,156
Total Energy:	12,282,697

History	Dec 2015	Dec 2014	2015 YTD
Max Demand (kW):	21,216	22,380	27,437
CP Demand (kW):	20,661	21,614	26,978
Energy (kWh):	12,282,697	13,111,190	147,956,126
CP Load Factor:	79.90%	81.53%	
HDD/CDD (Indianapolis):	685/0	974/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 / kW x	20,661	\$ 431,752.92
ECA Demand Charge:	\$ 0.087 / kW x	20,661	\$ 1,797.51
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.481 / kW x	20,661	\$ 30,598.94
Total Demand Charges:			\$ 464,149.37
Base Energy Charge:	\$ 0.030781 / kWh x	12,282,697	\$ 378,073.70
ECA Energy Charge:	\$ 0.002460 / kWh x	12,282,697	\$ 30,215.43
Total Energy Charges:			\$ 408,289.13
Average Purchased Power Cost: 7.10 cents per kWh			Total Purchased Power Charges: \$ 872,438.50

Other Charges and Credits

NET AMOUNT DUE: \$ 872,438.50

* Getrag: units adjusted by 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: 02/15/16

Questions, please call: 317-573-9955

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

IMPA Delivery Point Details

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 12/17/15 at 1100 EST				Demand at IMPA's Coincident Peak on 12/17/15 at 1900 EST			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	12,282,697						21,216	4,157	21,619	98.13%	20,661	3,065	20,887	98.92%
Tipton #1	5,638,835	12/28/15 at 1100 EST	10,051	672	10,073	99.78%	9,869	1,181	9,939	99.29%	9,485	557	9,501	99.83%
Tipton #2	5,031,831	12/28/15 at 1400 EST	9,053	1,421	9,164	98.79%	8,525	1,354	8,632	98.76%	8,582	1,085	8,650	99.21%
Getrag Bank #1	43,043	12/29/15 at 0600 EST	101	14	102	99.05%	86	14	87	98.70%	50	7	50	99.03%
Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getrag Bank #3	464,832	12/22/15 at 1700 EST	960	588	1,126	85.28%	780	528	942	82.81%	756	444	877	86.23%
Getrag Bank #4	1,104,156	12/14/15 at 0900 EST	2,016	1,164	2,328	86.60%	1,956	1,080	2,234	87.54%	1,788	972	2,035	87.86%

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

	APR	MAY	JUN	APR	MAY	JUN
	<u>\$/kW-month</u>			<u>\$/kWh</u>		
IMPA's Energy Cost Adjustment	0.038	0.038	0.038	0.001274	0.001274	0.001274
	<u>kW</u>			<u>kWh</u>		
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for TIPTON	15,781	18,041	22,713	8,746,315	8,869,775	10,166,331