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SHARON M. SUZUKI  
President

October 27, 2016

2016 OCT 27 P 3:02

PUBLIC UTILITIES  
COMMISSION

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
Kekuanao'a Building, First Floor  
465 South King Street  
Honolulu, Hawai'i 96813

Dear Commissioners:

Subject: Maui Electric Energy Cost Adjustment Factor for November 2016

Maui Electric Company, Limited's ("Maui Electric" or "Company") November 2016 energy cost adjustment factor for our Maui Division is -9.782 cents per kilowatt-hour ("kWh"), a decrease of 1.620 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$135.84, a decrease of \$8.10 compared to rates effective October 1, 2016.

The Company's Maui Division fuel composite cost of generation, central station and other increased 56.36 cents per million BTU to 1,104.01 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy decreased 4.259 cents per kWh to 13.360 cents per kWh.

The energy cost adjustment factor for our Lāna'i Division for November 2016 is -12.595 cents per kWh, an increase of 0.128 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$136.59, an increase of \$0.51 compared to rates effective October 1, 2016.

The Company's Lāna'i Division fuel composite cost of generation, central station and other increased 3.32 cents per million BTU to 1,547.13 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 27.000 cents per kWh.

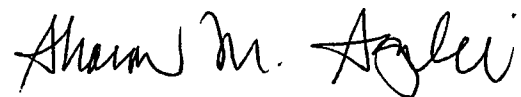
The energy cost adjustment factor for our Moloka'i Division for November 2016 is -9.970 cents per kWh, an increase of 1.161 cents per kWh from last month. A residential customer consuming 400 kWh of electricity will be paying \$132.85, an increase of \$4.64 compared to rates effective October 1, 2016.

The Company's Moloka'i Division fuel composite cost of generation, central station and other increased 72.79 cents per million BTU to 1,294.97 cents per million BTU. The composite cost of DG energy is 0.00 cents per kWh. The composite cost of purchased energy is 21.80 cents per kWh.

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
October 27, 2016  
Page 2

The attached sheets set forth the fuel adjustment in cents per kWh for each rate schedule that is applicable for pro rata use beginning November 1, 2016.

Sincerely,

A handwritten signature in black ink, appearing to read "Alan M. Aglei". The signature is written in a cursive style with a large, stylized initial 'A'.

Attachments

cc: Division of Consumer Advocacy

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION**

**ENERGY COST ADJUSTMENT FACTOR**

	EFFECTIVE DATES		<u>Change</u>
	<u>10-01-16</u>	<u>11-01-16</u>	
<u>COMPOSITE COSTS</u>			
Generation, Central Station & Other, ¢/mbtu	1,222.18	1,294.97	72.79
DG Energy, ¢/kWh	0.00	0.00	0.00
Purchased Energy, ¢/kWh	21.80	21.80	0.00
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment, ¢/kWh	(11.131)	(9.970)	1.161
<u>Others - "G,P,F"</u>			
Energy Cost Adjustment, ¢/kWh	(11.131)	(9.970)	1.161
<u>Residential Customer with</u>			
400 KWH Consumption, \$/Bill	128.21	132.85	4.64
500 KWH Consumption, \$/Bill	159.48	165.29	5.81

Supersedes Sheet Effective:

October 1, 2016

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
ENERGY COST ADJUSTMENT (ECA) FILING**

ENERGY COST ADJUSTMENT (ECA) FILING - November 1, 2016 (page 1 of 2)

Line

1 Effective Date November 1, 2016  
2 Supercedes Factors October 1, 2016

**GENERATION COMPONENT**

<b><u>CENTRAL STATION</u></b>							<b><u>DG ENERGY COMPONENT</u></b>	
FUEL PRICES, ¢/mmbtu								
3	Industrial			0.00				
4	Diesel			1,294.97				
5	Other			0.00				
BTU MIX, %								
6	Industrial			0.00	23	COMPOSITE COST OF DG		
7	Diesel			100.00		ENERGY, ¢/kWh	0.000	
8	Other			0.00	24	% Input to System kWh Mix	0.00	
				<u>100.00</u>				
9	COMPOSITE COST OF GENERATION, CENTRAL STATION + OTHER ¢/mmbtu (Lines (3 x 6) + (4 x 7) + (5 x 8))			1,294.97	25	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 23 x 24)	0.00000	
10	% Input to System kWh Mix			99.79	26	BASE DG ENERGY COMP COST	0.000	
EFFICIENCY FACTOR, mmbtu/kWh						27	Base % Input to System kWh Mix	0.00
	(A)	(B)	(C)	(D)	28	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 26 x 27)	0.00000	
			Percent of		29	Cost Less Base (Line 25 - 28)	0.00000	
		Eff Factor	Centrl Stn +	Weighted	30	Loss Factor	1.095	
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Other</u>	<u>Eff Factor</u>	31	Revenue Tax Req Multiplier	1.0975	
11	Industrial	0.000000	0.00	0.000000	32	DG FACTOR, ¢/kWh (Line 29 x 30 x 31)	0.00000	
12	Diesel	0.011194	100.00	0.011194				
13	Other	0.011194	0.00	0.000000				
	(Lines 11, 12, 13): Col(B) x Col(C) = Col(D)							
14	Weighted Efficiency Factor, mmbtu/kWh [lines 11(D) + 12(D) + 13(D)]			0.011194				
15	WEIGHTED COMPOSITE CENTRAL STATION + OTHER GENERATION COST, ¢/kWh (lines (9 x 10 x 14))			14.46553				
16	BASE CENTRAL STATION + OTHER GENERATION COST, ¢/mmbtu			2,144.57				
17	Base % Input to Sys kWh Mix			99.91				
18	Efficiency Factor, mmbtu/kwh			0.011194				
19	WEIGHTED BASE CENTRAL STATION + OTHER GENERATION COST ¢/kWh (lines (16 x 17 x 18))			23.98471				
20	COST LESS BASE (line(15 - 19))			(9.51918)				
21	Revenue Tax Req Multiplier			1.0975				
22	CENTRAL STATION + OTHER GENERATION FACTOR, ¢/kWh (line (20 x 21))			(10.44730)				
					SUMMARY OF			
					TOTAL GENERATION FACTOR, ¢/kWh			
					33	CNTRL STN + OTHER (line 22)	-10.44730	
					34	DG (line 32)	0.00000	
					35	TOTAL GENERATION FACTOR, ¢/kWh (lines 33 + 34)	-10.44730	

MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - November 1, 2016 (page 2 of 2)

Line

1 Effective Date November 1, 2016  
2 Supercedes Factors October 1, 2016

<u>Line</u>	<u>PURCHASED ENERGY COMPONENT</u>	
	PURCHASED ENERGY PRICE, ¢/kWh	
36	FIT	21.800
37		0.000
38	Sch Q	0.000
	PURCHASED ENERGY KWH MIX, %	
39	FIT	100.00
40		0.00
41	Sch Q	0.000
42	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh (Lines (36 x 39) + (37 x 40) + (38 x 41))	21.800
43	% Input to System kWh Mix	0.21
44	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (lines (42 x 43))	0.04566
45	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh	21.800
46	Base % Input to Sys kWh Mix	0.09
47	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (lines (45 x 46))	0.01962
48	COST LESS BASE (lines (44 - 47))	0.02604
49	Loss Factor	1.095
50	Revenue Tax Req Multiplier	1.0975
51	PURCHASED ENERGY FACTOR, ¢/kWh (lines (48 x 49 x 50))	0.03129

Line

SYSTEM COMPOSITE CALCULATIONS

52	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (lines (35 + 51))	(10.41601)
53	Adjustment, ¢/kWh	0.000
54	ECA Reconciliation Adjustment	0.446
55	ECA FACTOR, ¢/kWh (lines (52 + 53 + 54))	(9.970)

**Maui Electric Company, Ltd.  
Molokai Division**

**MONTH END FUEL OIL ESTIMATE**

	<u>Barrels</u>	<u>MBTU</u>	<u>\$</u>
10/20/2016	8,030.62	46,015.45	588,362.67
Estimated Use	1,803.86	10,336.12	126,326.48
Estimated Received	-	-	-
Estimated Additional	-	-	-
Estimated End	<u>6,226.76</u>	<u>35,679.33</u>	<u>462,036.19</u>

Next Months Expense = \$ 74.2017 /bbl

**FUEL OIL INVENTORY PRICE USED FOR FILING**

<u>Type of Oil Burned</u>	<u>Price</u>		<u>Prices ¢/MBTU</u>
Diesel	\$ 74.2017	5.73 BTU/BBL	1294.97

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION**

**Contract Prices effective October 1, 2016**

<u>TYPE OF OIL BURNED</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>
<b>ULTRA LOW SULFUR DIESEL</b>		
Tax *	1.4700	25.65
Ocean Transportation	2.0256	35.35
Storage	4.7171	82.32
Wharfage	0.2500	4.36

\* Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST tax and Environmental Response Tax.

Note: Since these components are not accounted for separately in inventory, contract prices for the current month are being provided. Contract prices are considered accurate pending actual delivery of the fuel.

Reference: Decision and Order No. 16134, Docket No. 96-0040.

**MAUI ELECTRIC COMPANY, LTD.**  
**Molokai Division**  
**ECA Reconciliation Adjustment**  
**November 2016**

1. Amount to be Collected	\$27,900
2. Monthly amount (1/3 x Line 1)	\$9,300
3. Revenue Tax Divisor	0.91115
4. Total (Line 2 / Line 3)	\$10,207
5. Estimated Sales (November 2016)	2,288 mwh
6. Adjustment (Line 4 ÷ Line 5)	0.446 ¢/kwh



**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
2016 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)**

<u>Line</u>	<u>Description</u>	Without Deadband 3rd Quarter <u>YTD Total</u>	collection by <u>company*</u>	Basis for Recon With Deadband 3rd Quarter <u>YTD Total</u>	collection by <u>company*</u>
Actual Costs					
1	Generation	\$2,787.0		\$2,787.0	
2	Distributed Generation	\$0.0		\$0.0	
3	Purch Power	\$0.9		\$0.9	
4	Total	\$2,787.9		\$2,787.9	
Fuel Filing Cost					
5	Generation	\$2,772.5		\$2,784.9	
6	Distributed Generation	\$0.0		\$0.0	
7	Purch Power	\$0.9		\$0.9	
8	Total	\$2,773.3		\$2,785.7	
Base Fuel Cost					
9	Generation	\$5,025.4		\$5,025.4	
10	Distributed Generation	\$0.0		\$0.0	
11	Purch Power	\$0.9		\$0.9	
12	Total	\$5,026.3		\$5,026.3	
13	FUEL - BASE COST (Line 8-12)	-\$2,252.9		-\$2,240.5	
14	ACTUAL FOA REVENUE LESS TAX	-\$2,277.5		-\$2,277.5	
15	FOA reconciliation adj for prior years	-\$5.4		-\$5.4	
16	ADJUSTED FOA LESS TAX	-\$2,272.1		-\$2,272.1	
17	FOA-(FUEL-BASE) (Line 16-13)	-\$19.2		-\$31.6	
ADJUSTMENTS					
18	Current year FOA accrual reversal	-\$13.6		-\$13.6	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	\$0.0		\$0.0	
21	3rd QUARTER FOA RECONCILIATION (Lines 17+18+19+20)	-\$32.8	Under	-\$45.2	Under
22	2nd QUARTERLY YTD 2016 YTD FOA Reconciliation Recognized in FOA Rates			-\$17.3	Under
23	FOA Reconciliation to be Refunded November 2016 to January 2017 (Line 22- 21)			\$27.9	To Be Collected

\* Over means an over-collection by the company.  
Under means an under-collection by the company.

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
DEADBAND CALCULATION**

Determination of Efficiency Factor to use for Cost-Recovery Purposes

Period: January 1, 2016 through September 30, 2016

	<u>Notes</u>	<u>Jan 1 - Sep 30</u>
<b><u>Palaau Diesel</u></b>		
Palaau Diesel Efficiency Factor (TY2009), BTU/kWh	f	11,194
Palaau Diesel Deadband Definition, +/- BTU/kWh	d	<b>50</b>
Palaau Diesel Portion of Recorded Sales, MWh	a	20,934
Palaau Diesel Consumption (Recorded), MMBTU	b	235,475
Palaau Diesel Efficiency Factor (Recorded), BTU/kWh	c = (b/a)*1000	11,249
Lower limit of Palaau Diesel Deadband, BTU/kWh	e = f-d	11,144
Higher limit of Palaau Diesel Deadband, BTU/kWh	g = f+d	11,244
Palaau Diesel Efficiency Factor for cost-recovery, BTU/kWh	h = c, e, or g	<b>11,244</b>

MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST, WITHOUT and WITH DEADBAND  
2016

	<u>Without Deadband</u>	<u>With Deadband - AS FILED</u>
	<u>Jan 1 - Sep 30</u>	<u>Jan 1 - Sep 30</u>
<u>DIESEL FUEL FILING COST</u>		
Diesel Portion of Recorded Sales, MWH	20,934	20,934
Diesel Sales Efficiency Factor (mmbtu/kwh)	0.011194	0.011244
Mmbtu adjusted for Sales Efficiency Factor	234,332	235,379
\$/mmbtu	<u>\$11.8314</u>	<u>\$11.8314</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$2,772.5	\$2,784.9
TOTAL GENERATION FUEL FILING COST, \$000s	\$2,772.5	\$2,784.9
TOTAL GENERATION BASE FUEL COST , \$000s YTD	\$5,025.4	\$5,025.4
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$2,772.5	\$2,784.9
TOTAL GENERATION BASE FUEL COST, \$000s YTD	\$5,025.4	\$5,025.4

**MAUI ELECTRIC COMPANY, LTD.  
MOLOKAI DIVISION  
2016 Cumulative Reconciliation Balance**

<u>Month</u>	(1) <u>YTD FOA Reconciliation</u>	<u>Qtr</u>	(2) <u>FOA Rec Adjust Variance</u>	(3) <u>FOA Rec Less Variance</u>	(4) <u>Try to Collect</u>	(5) <u>Actual Collect</u>	(6) <u>Month-end Cumulative Balance</u>
December '15					(1,433)	(1,450)	1,370
January '16					(1,433)	(1,417)	(47)
February	4,000	(4)	(55)	4,055	(1,333)	(1,321)	2,687
March					(1,333)	(1,326)	1,361
April					(1,333)	(1,381)	(20)
May	(5,900)	(1)	35	(5,935)	1,967	1,994	(3,961)
June					1,967	2,099	(1,862)
July					1,967	2,103	241
August	(11,400)	(2)	111	(11,511)	3,800	4,201	(7,069)
September					3,800	3,753	(3,316)
October					3,800		
November	(27,900)	(3)	490	(28,390)	9,300		

## NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 20)  
A positive number is an over-collection. A negative number is an under-collection.
- Col(2): FOA reconciliation adjustment variance accumulated during the last three months, starting with the fourth prior month; the difference between the estimated recorded sales used to derive the \$/kwh adjustment and the actual recorded sales.  
(Col(5) - Col(4))
- Col(3): FOA reconciliation generated in the current quarter. The YTD FOA reconciliation difference minus the adjustment variance. Col(1) - Col(2)
- Col(4): Amount that the FOA reconciliation adjustment is trying to collect. (Col(1) \* 1/3)
- Col(5): Actual collected amount. (recorded sales \* \$/kwh adjustment/1.09751)
- Col(6): Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + Col(5))

**Maui Electric Company, Ltd.  
Molokai Division  
Calculations of the Average Residential Customer Bill**

	Rate		Charge (\$) at 400 Kwh			
	10-01-16	11-01-16	10-01-16	11-01-16	Difference	
<b>Base Rates</b>	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	26.3468	26.3468	105.39	105.39	0.00
Non-fuel Fuel Energy Charge						
First 250 kWh per month	¢/kWh	11.4278	11.4278	28.57	28.57	0.00
Next 500 kWh per month	¢/kWh	14.0778	14.0778	21.12	21.12	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>				163.58	163.58	0.00
<b>IRP Refund</b>	% on base	0.000	0.000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	1.4082	1.4082	5.63	5.63	0.00
<b>PBF Surcharge</b>	¢/kWh	0.5865	0.5865	2.35	2.35	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0099	0.0099	0.04	0.04	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Adjustment</b>	¢/kWh	-11.131	-9.970	-44.52	-39.88	4.64
<b>Green Infrastructure Fee</b>	\$	1.13	1.13	1.13	1.13	0.00
<b>Avg Residential Bill at 400 kwh</b>				128.21	132.85	

Increase (Decrease -)	4.64
% Change	3.62%

	Rate		Charge (\$) at 500 Kwh			
	10-01-16	11-01-16	10-01-16	11-01-16	Difference	
<b>Base Rates</b>	effective date:	08/01/13	08/01/13			
Base Fuel/Energy Charge	¢/kWh	26.3468	26.3468	131.73	131.73	0.00
Non-fuel Fuel Energy Charge						
First 250 kWh per month	¢/kWh	11.4278	11.4278	28.57	28.57	0.00
Next 500 kWh per month	¢/kWh	14.0778	14.0778	35.19	35.19	0.00
Customer Charge	\$	8.50	8.50	8.50	8.50	0.00
<b>Total Base Charges</b>				203.99	203.99	0.00
<b>IRP Refund</b>	% on base	0.000	0.000	0.00	0.00	0.00
<b>Revenue Balancing Rate Adjustment</b>	¢/kWh	1.4082	1.4082	7.04	7.04	0.00
<b>PBF Surcharge</b>	¢/kWh	0.5865	0.5865	2.93	2.93	0.00
<b>Renewable Energy Infrastructure Cost Recovery Provision</b>	¢/kWh	0.0099	0.0099	0.05	0.05	0.00
<b>SolarSaver Adjustment</b>	¢/kWh	0.0000	0.0000	0.00	0.00	0.00
<b>Energy Cost Adjustment</b>	¢/kWh	-11.131	-9.970	-55.66	-49.85	5.81
<b>Green Infrastructure Fee</b>	\$	1.13	1.13	1.13	1.13	0.00
<b>Avg Residential Bill at 500 kwh</b>				159.48	165.29	

Increase (Decrease -)	5.81
% Change	3.64%

**MAUI ELECTRIC COMPANY, LTD. -- Molokai Division  
FUEL OIL ADJUSTMENT FACTOR DATA**

<u>EFFECTIVE DATE</u>	FUEL FACTOR CENTS / KWH		RESIDENTIAL BILL (\$)	
	<u>RESIDENTIAL &amp; COMMERCIAL</u>		<u>@ 400 KWH</u>	<u>@ 500 KWH</u>
January 1, 2014	3.885		185.67	231.62
February 1, 2014	4.590		188.49	235.14
March 1, 2014	4.652		188.74	235.45
April 1, 2014	4.585		187.49	233.89
May 1, 2014	4.690		188.89	235.64
June 1, 2014	4.779		192.52	240.17
July 1, 2014	5.145		194.72	242.92
August 1, 2014	4.697		192.93	240.68
September 1, 2014	-2.835		162.80	203.01
October 1, 2014	1.864		181.60	226.51
November 1, 2014	2.683		184.87	230.61
December 1, 2014	1.266		179.46	223.52
January 1, 2015	-0.141		173.84	216.48
February 1, 2015	-3.412		160.75	200.13
March 1, 2015	-6.056		150.18	186.91
April 1, 2015	-6.122		148.81	185.21
May 1, 2015	-6.727		147.49	183.55
June 8, 2015	-7.453		144.48	179.79
July 1, 2015	-6.185		148.55	184.84
August 1, 2015	-5.864		149.83	186.45
September 1, 2015	-5.935		149.59	186.14
October 1, 2015	-9.896		133.75	166.34
November 1, 2015	-10.149		132.73	165.07
December 1, 2015	-9.676		134.63	167.44
January 1, 2016	-9.942		133.44	165.99
February 1, 2016	-11.270		128.13	159.35
March 1, 2016	-12.649		122.61	152.45
April 1, 2016	-13.391		118.92	147.82
May 1, 2016	-13.226		120.31	149.57
June 1, 2016	-13.376		118.95	147.87
July 1, 2016	-12.675		122.03	151.76
August 1, 2016	-9.906		133.11	165.61
September 1, 2016	-9.794		133.55	166.17
October 1, 2016	-11.131		128.21	159.48
November 1, 2016	-9.970		132.85	165.29

**MAUI ELECTRIC COMPANY, LTD. -- Molokai Division  
RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
01/01/11 - 12/31/11	RESID. PBF SURCHARGE ADJUSTMENT	0.5944 CENTS/KWH
01/12/11 - 05/03/12	FINAL RATE INCREASE (3.66%), DOCKET NO. 2006-0387 (2007 TEST YEAR)	
01/12/11 - 05/03/12	INTERIM RATE INCREASE 2010 TEST YEAR	2.38 PERCENT ON BASE
02/01/11 - 02/28/11	IRP RECOVERY REFUND	-3.472 PERCENT ON BASE
03/01/11 - 04/30/11	IRP RECOVERY REFUND	0.000 PERCENT ON BASE
04/01/11 - 04/30/11	SOLARSAVER ADJUSTMENT	-0.0888 CENTS/KWH
05/01/11 - 03/31/12	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/11 - 05/31/11	IRP RECOVERY REFUND	-0.204 PERCENT ON BASE
<b>06/01/11</b>	<b>IRP RECOVERY REFUND</b>	<b>0.000 PERCENT ON BASE</b>
01/01/12 - 12/31/12	RESID. PBF SURCHARGE ADJUSTMENT	0.6766 CENTS/KWH
04/01/12 - 04/30/12	SOLARSAVER ADJUSTMENT	-0.2392 CENTS/KWH
05/01/12 - 03/31/13	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
5/4/2012 - 7/31/13	FINAL RATE INCREASE (1.51%), DOCKET NO. 2009-0163 (2010 TEST YEAR)	
6/1/2012- 7/31/13	INTERIM RATE INCREASE 2012 TEST YEAR	4.11 PERCENT ON BASE
01/01/13 - 06/30/13	RESID. PBF SURCHARGE ADJUSTMENT	0.7850 CENTS/KWH
04/01/13 - 04/30/13	SOLARSAVER ADJUSTMENT	-0.205 CENTS/KWH
05/01/13 - 03/31/14	SOLARSAVER ADJUSTMENT	0.000 CENTS/KWH
06/01/13 - 05/31/14	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.8071 CENTS/KWH
07/01/13 - 06/30/14	RESID. PBF SURCHARGE ADJUSTMENT	0.8312 CENTS/KWH
<b>08/01/13</b>	<b>FINAL RATE INCREASE (1.25%), DOCKET NO. 2011-0092 (2012 TEST YEAR)</b>	
04/01/14 - 04/30/14	SOLARSAVER ADJUSTMENT	-0.2453 CENTS/KWH
05/01/14 - 03/31/15	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/14 - 05/31/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.6239 CENTS/KWH
07/01/14 - 11/30/14	RESID. PBF SURCHARGE ADJUSTMENT	1.0157 CENTS/KWH
12/01/14 - 06/30/15	RESID. PBF SURCHARGE ADJUSTMENT	0.7583 CENTS/KWH
12/01/14 - 06/30/15	GREEN INFRASTRUCTURE FEE	1.29 DOLLARS/MONTH
04/01/15 - 04/30/15	SOLARSAVER ADJUSTMENT	-0.2744 CENTS/KWH
05/01/15 - 03/31/16	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/15 - 06/07/15	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	0.0000 CENTS/KWH
06/08/15 - 05/31/16	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	1.5987 CENTS/KWH
07/01/15 - 06/30/16	RESID. PBF SURCHARGE ADJUSTMENT	0.4749 CENTS/KWH
07/01/15 - 12/31/15	GREEN INFRASTRUCTURE FEE	1.42 DOLLARS/MONTH
08/17/15 - 02/29/16	RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION	0.0103 CENTS/KWH
01/01/16 - 06/30/16	GREEN INFRASTRUCTURE FEE	1.30 DOLLARS/MONTH
<b>03/01/16</b>	<b>RENEWABLE ENERGY INFRASTRUCTURE COST RECOVERY PROVISION</b>	<b>0.0099 CENTS/KWH</b>
04/01/16 - 04/30/16	SOLARSAVER ADJUSTMENT	-0.1835 CENTS/KWH
<b>05/01/16</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
<b>06/01/16</b>	<b>REVENUE BALANCING ACCOUNT RATE ADJUSTMENT</b>	<b>1.4082 CENTS/KWH</b>
<b>07/01/16</b>	<b>RESID. PBF SURCHARGE ADJUSTMENT</b>	<b>0.5865 CENTS/KWH</b>
<b>07/01/16</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.13 DOLLARS/MONTH</b>

~ Surcharges currently in effect are in bold.

~ Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount and minimum charge.