

August 3, 2016

BY HAND DELIVERY AND ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

**RE: National Grid's Revised Electric Pension Adjustment Factor Filing
For the Twelve-Month Period Ending March 31, 2016
Docket No. _____**

Dear Ms. Massaro:

On behalf of National Grid,¹ I have enclosed ten copies of the Company's Supplemental Direct Testimony of William R. Richer in support of the Company's Electric Pension Adjustment Factor Filing for the Twelve-Month Period ending March 31, 2016. This filing also includes ten copies of Revised Schedules WRR-1, WRR-2, and WRR-3. Although the Company has not revised Schedule WRR-4, it has also included ten copies of the original version of Schedule WRR-4 in this filing for the PUC's convenience.

As explained in the enclosed Supplemental Testimony of Mr. Richer, in his original testimony, he explained that the Company's funding to the post-employment benefits other than pension (PBOP) plan for the twelve-month period ended March 31, 2016 was below the Minimum Funding Obligation level. Consequently, the Company reported that it owed carrying charges to be paid to customers in the amount of \$101,848. However, this amount was reflected as a positive number on Page 1 of Schedule WRR-1 rather than a negative amount. This positive number was carried forward in the calculation of the Pension and PBOP Adjustment Factor and associated typical bill impacts in Schedules WRR-2 and WRR-3. The Company has corrected the carrying charge to reflect it as a credit of (\$101,848) to customers in Revised Schedule WRR-1 at page 2, line 12 and Revised Schedule WRR-2 at page 1, line 4. Typical bill impacts have also been adjusted accordingly in Revised Schedule WRR-3. There are no revisions to Schedule WRR-4.

¹ The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

Luly E. Massaro, Commission Clerk
Revised Electric Pension Adjustment Factor Filing
August 3, 2016
Page 2 of 2

Please note that the Company will be making similar revisions to its Gas Pension Adjustment Factor as part of its September 1, 2016 Supplemental Distribution Adjustment Charge filing in Docket No. 4634.

Thank you for your attention to this filing. If you have any questions, please contact me at 781-907-2121.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Raquel Webster", is written over a light grey rectangular background.

Raquel J. Webster

Enclosures

cc: Leo Wold, Esq.
Steve Scialabba, Division

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. _____
SUPPLEMENTAL ELECTRIC PENSION ADJUSTMENT MECHANISM FILING
WITNESS: WILLIAM R. RICHER
AUGUST 3, 2016

SUPPLEMENTAL DIRECT TESTIMONY

OF

WILLIAM R. RICHER

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1 **I. Introduction**

2 **Q. Please state your full name and business address.**

3 A. My name is William R. Richer and my business address is 40 Sylvan Road, Waltham,
4 Massachusetts 02451.

5

6 **Q. Have you previously submitted testimony in this docket?**

7 A. Yes. I submitted direct testimony in this docket on August 1, 2016.

8

9 **Q. What is the purpose of your supplemental testimony?**

10 A. The purpose of this supplemental testimony is to present and describe the Company's
11 revisions to Schedules WRR-1, WRR-2, and WRR-3, which were included with my
12 direct testimony filed on August 1, 2016 and the impact of these revisions. There are no
13 changes to Schedule WRR-4.

14

15 **Q. Are you sponsoring any schedules with this supplemental testimony?**

16 A. Yes. I am sponsoring the following schedules with this testimony:

- 17
- 18 • Revised Schedule WRR-1 - Pension and Post-Retirement Benefits Other Than Pension
19 (PBOP) Expense Reconciliation;
 - 20 • Revised Schedule WRR-2 - Pension and Post-Retirement Benefits Other Than Pension
21 Adjustment Factor Calculation; and
 - 22 • Revised Schedule WRR-3 - Typical Bill Impacts
- 23
24

1 **II. Description of Revisions to August 1, 2016 Electric Pension Adjustment Mechanism**

2 **Filing**

3 **Q. Please explain the reasons for the revisions to Schedules WRR-1, WRR-2, and**
4 **WRR-3.**

5 A. In the August 1, 2016 Electric Pension Adjustment Mechanism filing, due to an error
6 with the formula the Company used to develop the pension adjustment factors. In my
7 initial testimony, I explained that the Company's funding to the PBOP plan for the twelve
8 month period ended March 31, 2016 was below the Minimum Funding Obligation level.
9 As a result, the Company reported that it owed carrying charges to be paid to customers
10 in the amount of \$101,848. However, this amount was reflected as a positive number on
11 Page 1 of Schedule WRR-1, rather than a negative amount. This positive number was
12 carried forward in the calculation of the Pension and PBOP Adjustment Factor and
13 associated typical bill impacts in Schedules WRR-2 and WRR-3. The Company has
14 corrected the carrying charge to reflect it as a credit of (\$101,848) to customers in
15 Revised Schedule WRR-1 at page 2, line 12 and Revised Schedule WRR-2 at page 1, line
16 4. Typical bill impacts have also been adjusted accordingly in Revised Schedule WRR-
17 3. There are no revisions to Schedule WRR-4.

18
19 **Q. What is the revised result of the Company's reconciliation of pension and**
20 **Postretirement Benefits Other than Pensions (PBOP) expense?**

1 A. As explained in my direct testimony in this docket dated August 1, 2016 (August 1 Direct
2 Testimony), the Company's reconciliation indicates that it has under-recovered pension
3 expense and under-recovered PBOP expenses for the twelve months ending March 2016
4 in the amounts of \$5,665,396 and \$1,450,222, respectively. In addition, the pension
5 liability was over-funded during this time and, therefore, no carrying charges are
6 reflected in the reconciliation. The PBOP liability was under-funded during this time and
7 has a carrying charge of (\$101,848) and not \$101,848, as reflected in my August 1 Direct
8 Testimony.

9
10 **Q. What is the Company's revised proposed PAF and bill impact to be effective on**
11 **October 1, 2015?**

12 A. In my August 1 Direct Testimony, I reported that the net under-recovery was \$7,217,466
13 resulting in a charge of \$0.00094. The revised proposed PAF is calculated in Revised
14 Schedule WRR-2. The net under-recovery is now \$7,013,770 (Line 5) divided by the
15 forecasted kWhs during the recovery period, October 1, 2016 through September 30,
16 2017 (Line 6) resulting in a charge of \$0.00091 per kWh (Line 7).

17 The typical bill analysis illustrating the monthly bill impact of the proposed rate changes
18 for each rate class is provided in Revised Schedule WRR-3. The impact of the proposed
19 PAF on a typical residential customer receiving Standard Offer Service and using 500
20 kWhs per month is an increase of \$0.41, or approximately 0.4% from \$95.01 to \$95.42.

21

1 **Q.** **Are there any other changes to the Company’s Electric Pension Adjustment**
2 **Mechanism Filing?**

3 A. No.

4

5 **III. Conclusion**

6 **Q.** **Does this conclude your testimony?**

7 A. Yes.

**Narragansett Electric - Electric Operations
Pension Costs
12 Months Ended March 31, 2016**

Line No.		April 2015 thru March 2016
1	<u>Rate Allowance:</u>	
2	National Grid - RI Electric Pension Costs Allowance ¹	\$4,100,051
3	National Grid - Service Company Allocated Pension Costs Allowance	\$3,623,508
4	Total Pension Costs	<u>\$7,723,559</u>
5	<u>Expense Reconciliation:</u>	
6	Current Year actual Pension Expense Direct	\$4,979,659
7	Current Year actual Service Company Allocated Pension Expense	\$8,008,905
8	Current Year actual Affiliated Allocated Pension Expense	\$400,391
9	Total Current Year Pension Expense	<u>\$13,388,955</u>
10	Rate Allowance	\$7,723,559
11	Current Year Pension Expense Reconciliation	\$5,665,396
12	Funding Carrying Charge	\$0

Line Notes:

- 2 Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 35 of 71 line 26 (k) less line 24 (k)
- 3 Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 35 of 71 sum of lines 26 (l) thru 26 (n)
- 4 Line 2 plus Line 3
- 6-8 Per Company Books
- 10 Line 4
- 11 Line 9 minus Line 10
- 12 Minus Page 3 of 4 Line 26 (f)

¹ Pension rate allowance for purposes of this reconciliation excludes the 10-year recovery of pension and PBOP costs from Docket No. 3617 of \$2,511,132. This recovery ended on December 31, 2013. The amount of amortization of these pension and PBOP costs is also excluded from the expense amount shown on Line 6 above.

**Narragansett Electric - Electric Operations
Post-Retirement Benefits Other Than Pension (PBOP) Costs
12 Months Ended March 31, 2016**

Line No.		April 2015 thru March 2016
1	<u>Rate Allowance</u>	
2	National Grid - RI Electric PBOP Costs Allowance	\$1,813,275
3	National Grid - Service Company Allocated PBOP Costs Allowance	\$1,728,301
4	Total PBOP Costs	\$3,541,576
5	<u>Expense Reconciliation</u>	
6	Current Year actual PBOP Expense Direct	\$1,811,656
7	Current Year actual Service Company Allocated PBOP Expense	\$2,844,216
8	Current Year actual Affiliated Allocated PBOP Expense	\$335,926
9	Total Current Year PBOP Expense	\$4,991,798
10	Rate Allowance	\$3,541,576
11	Current Year PBOP Expense Reconciliation	\$1,450,222
12	Funding Carrying Charge	(\$101,848)

Line Notes:

- 2 Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 34 of 71 line 1(e)
- 3 Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 34 of 71 sum of lines 2(e) through 5(e)
- 4 Line 2 plus Line 3
- 6-8 Per Company Books
- 10 Line 4
- 11 Line 9 minus Line 10
- 12 Minus Page 4 of 4 Line 25 (f)

**Narragansett Electric - Electric Operations
Pension Funding Carrying Charges-quarterly
12 Months Ended March 31, 2016**

	(a) Dkt 4323	(b) Mar-2015	(c) Jun-2015	(d) Sep-2015	(e) Dec-2015	(f) Mar-2016
Customer Funding						
1 Base Rate Recovery:						
2 Direct	\$4,100,051	\$1,025,013	\$1,025,013	\$1,025,013	\$1,025,013	\$1,025,013
3 Servco	\$3,623,508	\$905,877	\$905,877	\$905,877	\$905,877	\$905,877
4 Recovery of Pension and PBOP per R.I.P.U.C Docket No. 3617	\$2,511,132	\$0	\$0	\$0	\$0	\$0
5						
6 PAM Surcharge Recovery:		\$0	\$0	\$0	\$311,315	\$466,972
7 Pension Capitalized Amount:						
8 Direct		\$567,647	\$1,249,840	\$1,211,664	\$1,265,622	\$1,335,962
9 Servco/Other Affiliates		\$712,817	\$844,510	\$1,077,223	\$1,043,374	\$1,082,312
10						
11 Total Customer Funding:		\$3,211,353	\$4,025,241	\$4,219,777	\$4,551,201	\$4,816,136
12						
13 Company Contributions¹		Jun-2015	Sep-2015	Dec-2015	Mar-2016	Jun-2016
14 Pension		\$3,510,000	\$1,510,000	\$1,510,000	\$1,510,000	\$1,887,500
15						
16 Service Company Allocated Costs		\$1,618,694	\$1,750,387	\$1,983,100	\$1,949,251	\$1,988,189
17 Total Contributions		\$5,128,694	\$3,260,387	\$3,493,100	\$3,459,251	\$3,875,689
18						
19 Under/(Over) Funding		(\$1,917,341)	\$764,853	\$726,677	\$1,091,950	\$940,447
20						
21 Cumulative Under/(Over) Funding		(\$3,534,324)	(\$2,769,471)	(\$2,042,794)	(\$950,844)	(\$10,398)
22 Five Quarter Average						(\$1,861,566)
23						
24 Base for Carrying Charge (greater of line 22 or zero)						\$0
25 Pre-tax WACC						9.68%
26 Carrying Charge						\$0

Company Contributions¹-This amount represents dollars funded in the subsequent quarter

Line Notes

- 2(a) Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 35 of 71 line 1(e)
- 2(b)-2(f) Line 2(a) divided by 12 times 3
- 3(a) Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 35 of 71 sum of lines 2(e) thru 5(e)
- 3(b)-3(f) Line 3(a) divided by 12 times 3
- 4(a) Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 35 of 71 line 24(p)
- 6(e) Docket No. 4518 Schedule WRR-1 Revised, page 1 of 4, Line 13 divided by 12 times 2
- 6(f) Docket No. 4518 Schedule WRR-1 Revised, page 1 of 4, Line 13 divided by 12 times 3
- 8(b)-8(f) Per Company Books
- 9(b)-9(f) Per Company Books
- 11 Sum of Line 2 through Line 9
- 14 Per Company Books
- 16 Line 3 plus Line 9
- 17 Sum of line 14 through line 16
- 19 Line 11 minus line 17
- 21 Current year line 19 plus prior year line 21
- 22 Average of column (b) through column (f)
- 24 If line 22 is greater than zero, line 22 if not, zero
- 25 Docket No. 4323
- 26 Line 24 times line 25

Narragansett Electric - Electric Operations
PBOP Funding - Carrying Charges-quarterly
12 Months Ended March 31, 2016

	(a) Dkt 4323	(b) Mar-2015	(c) Jun-2015	(d) Sep-2015	(e) Dec-2015	(f) Mar-2016
Customer Funding						
1 Base Rate Recovery:						
2 Direct	\$1,813,275	\$453,319	\$453,319	\$453,319	\$453,319	\$453,319
3 Servco	\$1,728,301	\$432,075	\$432,075	\$432,075	\$432,075	\$432,075
4						
5 PAM Surcharge Recovery:		\$0	\$0	\$0	(\$162,668)	(\$244,002)
6 PBOP Capitalized Amount:						
7 Direct		\$152,669	\$454,706	\$440,817	\$460,448	\$486,038
8 Servco/Other Affiliates		\$262,200	\$328,411	\$445,641	\$358,932	\$426,659
9						
10 Total Customer Funding:		1,300,263	1,668,511	1,771,852	1,542,105	1,554,089
11						
12 Company Contributions¹		Jun-2015	Sep-2015	Dec-2015	Mar-2016	Jun-2016
13						
14 PBOP		\$443,250	\$494,547	\$483,953	\$574,884	\$562,500
15 ServCo/Other Affiliates Allocated Costs		\$694,275	\$760,486	\$877,716	\$791,007	\$858,734
16		\$1,137,525	\$1,255,033	\$1,361,669	\$1,365,891	\$1,421,234
17						
18 Under/(Over) Funding		\$162,738	\$413,478	\$410,183	\$176,214	\$132,855
19						
20 Cumulative Funding Under/(Over) Funding		\$378,200	\$791,678	\$1,201,860	\$1,378,075	\$1,510,930
21 Five Quarter Average						\$1,052,149
22						
23 Base for Carrying Charge (greater of line 22 or zero)						\$1,052,149
24 Pre-tax WACC						9.68%
25 Carrying Charge						<u>\$101,848</u>

Company Contributions¹-This amount represents dollars funded in the subsequent quarter

Line Notes

- 2(a) Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 35 of 71 line 1(e)
- 2(b)-2(f) Line 2(a) divided by 12 times 3
- 3(a) Docket No. 4323 Compliance Attachment 1 Schedule MDL-3-ELEC page 35 of 71 sum of lines 2(e) thru 5(e)
- 3(b)-3(f) Line 3(a) divided by 12 times 3
- 5(e) Docket No. 4518 Schedule WRR-1 Revised, page 2 of 4, Line 13 divided by 12 times 2
- 5(f) Docket No. 4518 Schedule WRR-1 Revised, page 2 of 4, Line 13 divided by 12 times 3
- 7(b)-7(f) Per Company Books
- 8(b)-8(f) Per Company Books
- 10 Sum of Line 2 through Line 8
- 14 Per Company Books
- 15 Line 3 plus Line 8
- 16 Sum of line 14 through line 15
- 18 Line 10 minus line 16
- 20 Current year line 18 plus prior year line 20
- 21 Average of column (b) through column (f)
- 23 If line 21 is greater than zero, line 21 if not, zero
- 24 Docket No. 4323
- 25 Line 23 times line 24

Calculation of Pension/PBOP Adjustment Factor

(1) Pension Current Year Regulatory Expense Reconciliation	\$5,665,396
(2) PBOP Current Year Regulatory Expense Reconciliation	\$1,450,222
(3) Pension Funding Carrying Charge	\$0
(4) <u>PBOP Funding Carrying Charge</u>	(\$101,848)
(5) Pension/PBOP Under-Recovery Amount	\$7,013,770
(6) Forecasted kWhs - October 1, 2016 through September 30, 2017	<u>7,633,940,149</u>
(7) Proposed Pension/PBOP Adjustment Factor for October 1, 2016	\$0.00091

Line Descriptions:

- (1) per Schedule WRR-1 Page 1 Line (11)
- (2) per Schedule WRR-1 Page 2 Line (11)
- (3) per Schedule WRR-1 Page 1 Line (12)
- (4) per Schedule WRR-1 Page 2 Line (12)
- (5) Line (1) + Line (2) + Line (3) + Line (4)
- (6) per Company forecast
- (7) Line (5) ÷ Line (6), truncated to 5 decimal places

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. _____
Revised Pension Adjustment Mechanism Filing
Revised Schedule WRR-3
August 3, 2016
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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rate Customers

Monthly kWh	Present Rates				Proposed Rates				Increase (Decrease)				Percentage of Customers				
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	\$		% of Total Bill						
									Delivery	SOS	GET	Total		Delivery	SOS	GET	Total
150	\$18.47	\$13.02	\$1.31	\$32.80	\$18.59	\$13.02	\$1.32	\$32.93	\$0.12	\$0.00	\$0.01	\$0.13	0.4%	0.0%	0.0%	0.4%	13.7%
300	\$31.04	\$26.04	\$2.38	\$59.46	\$31.28	\$26.04	\$2.39	\$59.71	\$0.24	\$0.00	\$0.01	\$0.25	0.4%	0.0%	0.0%	0.4%	17.5%
400	\$39.42	\$34.72	\$3.09	\$77.23	\$39.74	\$34.72	\$3.10	\$77.56	\$0.32	\$0.00	\$0.01	\$0.33	0.4%	0.0%	0.0%	0.4%	11.8%
500	\$47.81	\$43.40	\$3.80	\$95.01	\$48.20	\$43.40	\$3.82	\$95.42	\$0.39	\$0.00	\$0.02	\$0.41	0.4%	0.0%	0.0%	0.4%	10.8%
600	\$56.19	\$52.07	\$4.51	\$112.77	\$56.66	\$52.07	\$4.53	\$113.26	\$0.47	\$0.00	\$0.02	\$0.49	0.4%	0.0%	0.0%	0.4%	9.4%
700	\$64.57	\$60.75	\$5.22	\$130.54	\$65.12	\$60.75	\$5.24	\$131.11	\$0.55	\$0.00	\$0.02	\$0.57	0.4%	0.0%	0.0%	0.4%	7.7%
1,200	\$106.47	\$104.15	\$8.78	\$219.40	\$107.42	\$104.15	\$8.82	\$220.39	\$0.95	\$0.00	\$0.04	\$0.99	0.4%	0.0%	0.0%	0.5%	15.0%
2,000	\$173.52	\$173.58	\$14.46	\$361.56	\$175.10	\$173.58	\$14.53	\$363.21	\$1.58	\$0.00	\$0.07	\$1.65	0.4%	0.0%	0.0%	0.5%	14.1%

Proposed Rates

Present Rates

Customer Charge	\$5.00																		
RE Growth Factor	\$0.17																		
LIHEAP Charge	\$0.73																		
Transmission Energy Charge	\$0.02705	kWh x																	
Distribution Energy Charge	\$0.04283	kWh x																	
Transition Energy Charge	(\$0.00058)	kWh x																	
Energy Efficiency Program Charge	\$0.01107	kWh x																	
Renewable Energy Distribution Charge	\$0.00344	kWh x																	
Gross Earnings Tax	4%																		
Standard Offer Charge	\$0.08679	kWh x																	

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh

Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-60 Rate Customers

Monthly kWh	Present Rates					Proposed Rates					Increase (Decrease)					Percentage of Customers	
	Delivery	SOS	GET	Total	Total	Delivery	SOS	GET	Total	Total	% of Total Bill			Total			
											Delivery	SOS	GET		Delivery		SOS
150	\$11.45	\$13.02	\$1.02	\$25.49	\$25.61	\$11.57	\$13.02	\$1.02	\$25.61	\$0.12	\$0.00	\$0.00	\$0.12	0.0%	0.0%	0.0%	13.7%
300	\$22.00	\$26.04	\$2.00	\$50.04	\$50.29	\$22.24	\$26.04	\$2.01	\$50.29	\$0.24	\$0.00	\$0.01	\$0.25	0.0%	0.0%	0.0%	17.5%
400	\$29.04	\$34.72	\$2.66	\$66.42	\$66.74	\$29.35	\$34.72	\$2.67	\$66.74	\$0.31	\$0.00	\$0.01	\$0.32	0.0%	0.0%	0.0%	11.8%
500	\$36.07	\$43.40	\$3.31	\$82.78	\$83.20	\$36.47	\$43.40	\$3.33	\$83.20	\$0.40	\$0.00	\$0.02	\$0.42	0.0%	0.0%	0.0%	10.8%
600	\$43.10	\$52.07	\$3.97	\$99.14	\$99.64	\$43.58	\$52.07	\$3.99	\$99.64	\$0.48	\$0.00	\$0.02	\$0.50	0.0%	0.0%	0.0%	9.4%
700	\$50.14	\$60.75	\$4.62	\$115.51	\$116.08	\$50.69	\$60.75	\$4.64	\$116.08	\$0.55	\$0.00	\$0.02	\$0.57	0.0%	0.0%	0.0%	7.7%
1,200	\$85.31	\$104.15	\$7.89	\$197.35	\$198.34	\$86.26	\$104.15	\$7.93	\$198.34	\$0.95	\$0.00	\$0.04	\$0.99	0.0%	0.0%	0.0%	15.0%
2,000	\$141.58	\$173.58	\$13.13	\$328.29	\$329.94	\$143.16	\$173.58	\$13.20	\$329.94	\$1.58	\$0.00	\$0.07	\$1.65	0.0%	0.0%	0.0%	14.1%

Proposed Rates

Present Rates

Customer Charge	\$0.00	\$0.00
RE Growth Factor	\$0.17	\$0.17
LIHEAP Charge	\$0.73	\$0.73
Transmission Energy Charge	\$0.02705	\$0.02705
Distribution Energy Charge	\$0.02956	\$0.03015 (2)
Transition Energy Charge	\$0.00058	(\$0.00058)
Energy Efficiency Program Charge	\$0.01107	\$0.01107
Renewable Energy Distribution Charge	\$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	\$0.08679	\$0.08679

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. _____
Revised Pension Adjustment Mechanism Filing
Revised Schedule WRR-3
August 3, 2016
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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to C-06 Rate Customers

Monthly kWh	Present Rates					Proposed Rates					Increase (Decrease)					Percentage of Customers
	Delivery	SOS	GET	Total	Total	Delivery	SOS	GET	Total	Total	% of Total Bill			Total		
											GET	SOS	GET			
250	\$30.53	\$20.91	\$2.14	\$53.58	\$53.78	\$30.72	\$20.91	\$2.15	\$53.78	\$0.01	\$0.20	0.0%	0.4%	0.0%	0.4%	35.2%
500	\$50.06	\$41.82	\$3.83	\$95.71	\$96.13	\$50.46	\$41.82	\$3.85	\$96.13	\$0.02	\$0.42	0.0%	0.4%	0.0%	0.4%	17.0%
1,000	\$89.13	\$83.64	\$7.20	\$179.97	\$180.79	\$89.92	\$83.64	\$7.23	\$180.79	\$0.03	\$0.82	0.0%	0.4%	0.0%	0.5%	19.0%
1,500	\$128.20	\$125.46	\$10.57	\$264.23	\$265.47	\$129.39	\$125.46	\$10.62	\$265.47	\$0.05	\$1.24	0.0%	0.5%	0.0%	0.5%	9.8%
2,000	\$167.27	\$167.28	\$13.94	\$348.49	\$350.14	\$168.85	\$167.28	\$14.01	\$350.14	\$0.07	\$1.65	0.0%	0.5%	0.0%	0.5%	19.1%

Proposed Rates

Present Rates

Customer Charge	\$10.00															
RE Growth Factor	\$0.26															
LHLEAP Charge	\$0.73															
Transmission Energy Charge			kWh x	\$0.02566												
Distribution Energy Charge			kWh x	\$0.03855												
Transition Energy Charge			kWh x	(\$0.00068)												
Energy Efficiency Program Charge			kWh x	\$0.01107												
Renewable Energy Distribution Charge			kWh x	\$0.00344												
Gross Earnings Tax				4%												
Standard Offer Charge			kWh x	\$0.08364												

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh

Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
 Total Bill Impact of Proposed
 Rates Applicable to G-02 Rate Customers

Hours Use: 200

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	\$393.35	\$334.56	\$30.33	\$758.24	\$396.51	\$334.56	\$30.46	\$761.53	\$3.16	\$0.00	\$0.13	\$3.29
50	\$859.79	\$836.40	\$70.67	\$1,766.86	\$867.69	\$836.40	\$71.00	\$1,775.09	\$7.90	\$0.00	\$0.33	\$8.23
100	\$1,637.19	\$1,672.80	\$137.92	\$3,447.91	\$1,652.99	\$1,672.80	\$138.57	\$3,464.36	\$15.80	\$0.00	\$0.65	\$16.45
150	\$2,414.59	\$2,509.20	\$205.16	\$5,128.95	\$2,438.29	\$2,509.20	\$206.15	\$5,153.64	\$23.70	\$0.00	\$0.99	\$24.69

	Present Rates	Proposed Rates
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$2.46
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	kW x \$3.59
Transmission Energy Charge	kWh x \$0.01068	kWh x \$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	kW x \$5.58
Distribution Energy Charge	kWh x \$0.00728	kWh x \$0.00807 (1)
Transition Energy Charge	kWh x (\$0.00058)	kWh x (\$0.00058) (2)
Energy Efficiency Program Charge	kWh x \$0.01107	kWh x \$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	kWh x \$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	kWh x \$0.08364

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
 Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

Hours Use: 300

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	\$457.13	\$501.84	\$399.96	\$998.93	\$461.87	\$501.84	\$40.15	\$1,003.86	\$4.74	\$0.00	\$0.19	\$4.93
50	\$1,019.24	\$1,254.60	\$94.74	\$2,368.58	\$1,031.09	\$1,254.60	\$95.24	\$2,380.93	\$11.85	\$0.00	\$0.50	\$12.35
100	\$1,956.09	\$2,509.20	\$186.05	\$4,651.34	\$1,979.79	\$2,509.20	\$187.04	\$4,676.03	\$23.70	\$0.00	\$0.99	\$24.69
150	\$2,892.94	\$3,763.80	\$277.36	\$6,934.10	\$2,928.49	\$3,763.80	\$278.85	\$6,971.14	\$35.55	\$0.00	\$1.49	\$37.04

	Present Rates	Proposed Rates
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$2.46
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	kW x \$3.59
Transmission Energy Charge	kWh x \$0.01068	kWh x \$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	kW x \$5.58
Distribution Energy Charge	kWh x \$0.00728	kWh x \$0.00807 (1)
Transition Energy Charge	kWh x (\$0.00058)	kWh x (\$0.00058) (2)
Energy Efficiency Program Charge	kWh x \$0.01107	kWh x \$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	kWh x \$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	kWh x \$0.08364

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

Hours Use: 400

	Present Rates				Proposed Rates				Increase (Decrease)				
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	% of Total Bill
Monthly Power kW													
20	\$520.91	\$669.12	\$49.58	\$1,239.61	\$527.23	\$669.12	\$49.85	\$1,246.20	\$6.32	\$0.00	\$0.27	\$6.59	0.5%
50	\$1,178.69	\$1,672.80	\$118.81	\$2,970.30	\$1,194.49	\$1,672.80	\$119.47	\$2,986.76	\$15.80	\$0.00	\$0.66	\$16.46	0.6%
100	\$2,274.99	\$3,345.60	\$234.19	\$5,854.78	\$2,306.59	\$3,345.60	\$235.51	\$5,887.70	\$31.60	\$0.00	\$1.32	\$32.92	0.6%
150	\$3,371.29	\$5,018.40	\$349.57	\$8,739.26	\$3,418.69	\$5,018.40	\$351.55	\$8,788.64	\$47.40	\$0.00	\$1.98	\$49.38	0.6%

Present Rates

Customer Charge	\$135.00
RE Growth Factor	\$2.46
LH/EAP Charge	\$0.73
Transmission Demand Charge	\$3.59
Transmission Energy Charge	\$0.01068
Distribution Demand Charge-xcs 10 kW	\$5.58
Distribution Energy Charge	\$0.00728
Transition Energy Charge	(\$0.00058)
Energy Efficiency Program Charge	\$0.01107
Renewable Energy Distribution Charge	\$0.00344
Gross Earnings Tax	4%
Standard Offer Charge	\$0.08364

Proposed Rates

Customer Charge	\$135.00
RE Growth Factor	\$2.46
LH/EAP Charge	\$0.73
Transmission Demand Charge	\$3.59
Transmission Energy Charge	\$0.01068
Distribution Demand Charge-xcs 10 kW	\$5.58
Distribution Energy Charge	\$0.00807
Transition Energy Charge	(\$0.00058)
Energy Efficiency Program Charge	\$0.01107
Renewable Energy Distribution Charge	\$0.00344
Gross Earnings Tax	4%
Standard Offer Charge	\$0.08364

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
 Total Bill Impact of Proposed
 Rates Applicable to G-02 Rate Customers

Hours Use: 500

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	\$584.69	\$836.40	\$592.21	\$1,480.30	\$592.59	\$836.40	\$59.54	\$1,488.53	\$7.90	\$0.00	\$0.33	\$8.23
50	\$1,338.14	\$2,091.00	\$142.88	\$3,572.02	\$1,357.89	\$2,091.00	\$143.70	\$3,592.59	\$19.75	\$0.00	\$0.82	\$20.57
100	\$2,593.89	\$4,182.00	\$282.33	\$7,058.22	\$2,633.39	\$4,182.00	\$283.97	\$7,099.36	\$39.50	\$0.00	\$1.64	\$41.14
150	\$3,849.64	\$6,273.00	\$421.78	\$10,544.42	\$3,908.89	\$6,273.00	\$424.25	\$10,606.14	\$59.25	\$0.00	\$2.47	\$61.72

	Present Rates	Proposed Rates
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$2.46
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	kW x \$3.59
Transmission Energy Charge	kWh x \$0.01068	kWh x \$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	kW x \$5.58
Distribution Energy Charge	kWh x \$0.00728	kWh x \$0.00807 (1)
Transition Energy Charge	kWh x (\$0.00058)	kWh x (\$0.00058) (2)
Energy Efficiency Program Charge	kWh x \$0.01107	kWh x \$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	kWh x \$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	kWh x \$0.08364

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
 Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-02 Rate Customers

Hours Use: 600

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
20	\$648.47	\$1,003.68	\$68.84	\$1,720.99	\$657.95	\$1,003.68	\$69.23	\$1,730.86	\$9.48	\$0.00	\$0.39	\$9.87
50	\$1,497.59	\$2,509.20	\$166.95	\$4,173.74	\$1,521.29	\$2,509.20	\$167.94	\$4,198.43	\$23.70	\$0.00	\$0.99	\$24.69
100	\$2,912.79	\$5,018.40	\$330.47	\$8,261.66	\$2,960.19	\$5,018.40	\$332.44	\$8,311.03	\$47.40	\$0.00	\$1.97	\$49.37
150	\$4,327.99	\$7,527.60	\$493.98	\$12,349.57	\$4,399.09	\$7,527.60	\$496.95	\$12,423.64	\$71.10	\$0.00	\$2.97	\$74.07

	Present Rates	Proposed Rates
Customer Charge	\$135.00	\$135.00
RE Growth Factor	\$2.46	\$2.46
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	kW x \$3.59	kW x \$3.59
Transmission Energy Charge	kWh x \$0.01068	kWh x \$0.01068
Distribution Demand Charge-xcs 10 kW	kW x \$5.58	kW x \$5.58
Distribution Energy Charge	kWh x \$0.00728	kWh x \$0.00807 (1)
Transition Energy Charge	kWh x (\$0.00058)	kWh x (\$0.00058) (2)
Energy Efficiency Program Charge	kWh x \$0.01107	kWh x \$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344	kWh x \$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	kWh x \$0.08364	kWh x \$0.08364

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 200

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)				Total		
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total			
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$			
200	\$2,907.91	\$1,835.60	\$197.65	\$4,941.16	\$2,939.51	\$1,835.60	\$198.96	\$4,974.07	\$31.60	\$0.00	\$1.31	\$32.91	0.0%	0.0%	0.7%
750	\$11,027.01	\$6,883.50	\$746.27	\$18,656.78	\$11,145.51	\$6,883.50	\$751.21	\$18,780.22	\$118.50	\$0.00	\$4.94	\$123.44	0.6%	0.0%	0.7%
1,000	\$14,717.51	\$9,178.00	\$995.65	\$24,891.16	\$14,873.51	\$9,178.00	\$1,002.23	\$25,055.74	\$158.00	\$0.00	\$6.58	\$164.58	0.6%	0.0%	0.7%
1,500	\$22,098.51	\$13,767.00	\$1,494.40	\$37,359.91	\$22,335.51	\$13,767.00	\$1,504.27	\$37,606.78	\$237.00	\$0.00	\$9.87	\$246.87	0.6%	0.0%	0.7%
2,500	\$36,860.51	\$22,945.00	\$2,491.90	\$62,297.41	\$37,255.51	\$22,945.00	\$2,508.35	\$62,708.86	\$395.00	\$0.00	\$16.45	\$411.45	0.6%	0.0%	0.7%

Present Rates

Customer Charge	\$825.00	
RE Growth Factor	\$17.78	
LIHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.97	kW x
Transmission Energy Charge	\$0.01047	kWh x
Distribution Demand Charge-xcs 10 kW	\$4.44	kW x
Distribution Energy Charge	\$0.00736	kWh x
Transition Energy Charge	(\$0.00058)	kWh x
Energy Efficiency Program Charge	\$0.01107	kWh x
Renewable Energy Distribution Charge	\$0.00344	kWh x
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	kWh x

Proposed Rates

Customer Charge	\$825.00	
RE Growth Factor	\$17.78	
LIHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.97	kW x
Transmission Energy Charge	\$0.01047	kWh x
Distribution Demand Charge-xcs 10 kW	\$4.44	kW x
Distribution Energy Charge	\$0.00815	kWh x
Transition Energy Charge	(\$0.00058)	kWh x
Energy Efficiency Program Charge	\$0.01107	kWh x
Renewable Energy Distribution Charge	\$0.00344	kWh x
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	kWh x

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh

Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 300

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)				
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	% of Total Bill
200	\$3,543.11	\$2,753.40	\$262.35	\$6,558.86	\$3,590.51	\$2,753.40	\$264.33	\$6,608.24	\$47.40	\$0.00	\$1.98	\$49.38	0.0%
750	\$13,409.01	\$10,325.25	\$988.93	\$24,723.19	\$13,586.76	\$10,325.25	\$996.33	\$24,908.34	\$177.75	\$0.00	\$7.40	\$185.15	0.0%
1,000	\$17,893.51	\$13,767.00	\$1,319.19	\$32,979.70	\$18,130.51	\$13,767.00	\$1,329.06	\$33,226.57	\$237.00	\$0.00	\$9.87	\$246.87	0.0%
1,500	\$26,862.51	\$20,650.50	\$1,979.71	\$49,492.72	\$27,218.01	\$20,650.50	\$1,994.52	\$49,863.03	\$355.50	\$0.00	\$14.81	\$370.31	0.0%
2,500	\$44,800.51	\$34,417.50	\$3,300.75	\$82,518.76	\$45,393.01	\$34,417.50	\$3,325.44	\$83,135.95	\$592.50	\$0.00	\$24.69	\$617.19	0.0%

Present Rates

Customer Charge	\$825.00
RE Growth Factor	\$17.78
LIHEAP Charge	\$0.73
Transmission Demand Charge	\$3.97
Transmission Energy Charge	kWh x \$0.01047
Distribution Demand Charge-xcs 10 kW	kWh x \$4.44
Distribution Energy Charge	kWh x \$0.00736
Transition Energy Charge	kWh x (\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344
Gross Earnings Tax	4%
Standard Offer Charge	kWh x \$0.04589

Proposed Rates

Customer Charge	\$825.00
RE Growth Factor	\$17.78
LIHEAP Charge	\$0.73
Transmission Demand Charge	\$3.97
Transmission Energy Charge	kWh x \$0.01047
Distribution Demand Charge-xcs 10 kW	kWh x \$4.44
Distribution Energy Charge	kWh x \$0.00815 (2)
Transition Energy Charge	kWh x (\$0.00058)
Energy Efficiency Program Charge	kWh x \$0.01107
Renewable Energy Distribution Charge	kWh x \$0.00344
Gross Earnings Tax	4%
Standard Offer Charge	kWh x \$0.04589

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh

Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 400

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)					
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	% of Total Bill	
200	\$4,178.31	\$3,671.20	\$327.06	\$8,176.57	\$4,241.51	\$3,671.20	\$329.70	\$8,242.41	\$63.20	\$0.00	\$2.64	\$65.84	0.0%	0.8%
750	\$15,791.01	\$13,767.00	\$1,231.58	\$30,789.59	\$16,028.01	\$13,767.00	\$1,241.46	\$31,036.47	\$237.00	\$0.00	\$9.88	\$246.88	0.0%	0.8%
1,000	\$21,069.51	\$18,356.00	\$1,642.73	\$41,068.24	\$21,385.51	\$18,356.00	\$1,655.90	\$41,397.41	\$316.00	\$0.00	\$13.17	\$329.17	0.0%	0.8%
1,500	\$31,626.51	\$27,534.00	\$2,465.02	\$61,625.53	\$32,100.51	\$27,534.00	\$2,484.77	\$62,119.28	\$474.00	\$0.00	\$19.75	\$493.75	0.0%	0.8%
2,500	\$52,740.51	\$45,890.00	\$4,109.60	\$102,740.11	\$53,530.51	\$45,890.00	\$4,142.52	\$103,563.03	\$790.00	\$0.00	\$32.92	\$822.92	0.0%	0.8%

Present Rates

Customer Charge	\$825.00
RE Growth Factor	\$17.78
LIHEAP Charge	\$0.73
Transmission Demand Charge	\$3.97
Transmission Energy Charge	\$0.01047
Distribution Demand Charge-xcs 10 kW	\$4.44
Distribution Energy Charge	\$0.00736
Transition Energy Charge	(\$0.00058)
Energy Efficiency Program Charge	\$0.01107
Renewable Energy Distribution Charge	\$0.00344
Gross Earnings Tax	4%
Standard Offer Charge	\$0.04589

Proposed Rates

Customer Charge	\$825.00
RE Growth Factor	\$17.78
LIHEAP Charge	\$0.73
Transmission Demand Charge	\$3.97
Transmission Energy Charge	\$0.01047
Distribution Demand Charge-xcs 10 kW	\$4.44
Distribution Energy Charge	\$0.00815
Transition Energy Charge	(\$0.00058)
Energy Efficiency Program Charge	\$0.01107
Renewable Energy Distribution Charge	\$0.00344
Gross Earnings Tax	4%
Standard Offer Charge	\$0.04589

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh

Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 500

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)				
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	% of Total Bill
200	\$4,813.51	\$4,589.00	\$391.77	\$9,794.28	\$4,892.51	\$4,589.00	\$395.06	\$9,876.57	\$79.00	\$0.00	\$3.29	\$82.29	0.0%
750	\$18,173.01	\$17,208.75	\$1,474.24	\$36,856.00	\$18,469.26	\$17,208.75	\$1,486.58	\$37,164.59	\$296.25	\$0.00	\$12.34	\$308.59	0.0%
1,000	\$24,245.51	\$22,945.00	\$1,966.27	\$49,156.78	\$24,640.51	\$22,945.00	\$1,982.73	\$49,568.24	\$395.00	\$0.00	\$16.46	\$411.46	0.0%
1,500	\$36,390.51	\$34,417.50	\$2,950.33	\$73,758.34	\$36,983.01	\$34,417.50	\$2,975.02	\$74,375.53	\$592.50	\$0.00	\$24.69	\$617.19	0.0%
2,500	\$60,680.51	\$57,362.50	\$4,918.46	\$122,961.47	\$61,668.01	\$57,362.50	\$4,959.60	\$123,990.11	\$987.50	\$0.00	\$41.14	\$1,028.64	0.0%

Proposed Rates

Present Rates

Customer Charge	\$825.00	
RE Growth Factor	\$17.78	
LIHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.97	kW x
Transmission Energy Charge	\$0.01047	kWh x
Distribution Demand Charge-xcs 10 kW	\$4.44	kW x
Distribution Energy Charge	\$0.00736	kWh x
Transition Energy Charge	(\$0.00058)	kWh x
Energy Efficiency Program Charge	\$0.01107	kWh x
Renewable Energy Distribution Charge	\$0.00344	kWh x
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	kWh x

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-32 Rate Customers

Hours Use: 600

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)				Total	%	
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total			SOS
200	\$5,448.71	\$5,506.80	\$456.48	\$11,411.99	\$5,543.51	\$5,506.80	\$460.43	\$11,510.74	\$94.80	\$0.00	\$3.95	\$98.75	0.0%	0.0%	0.0%
750	\$20,555.01	\$20,650.50	\$1,716.90	\$42,922.41	\$20,910.51	\$20,650.50	\$1,731.71	\$43,292.72	\$355.50	\$0.00	\$14.81	\$370.31	0.0%	0.0%	0.0%
1,000	\$27,421.51	\$27,534.00	\$2,289.81	\$57,245.32	\$27,895.51	\$27,534.00	\$2,309.56	\$57,739.07	\$474.00	\$0.00	\$19.75	\$493.75	0.0%	0.0%	0.0%
1,500	\$41,154.51	\$41,301.00	\$3,435.65	\$85,891.16	\$41,865.51	\$41,301.00	\$3,465.27	\$86,631.78	\$711.00	\$0.00	\$29.62	\$740.62	0.0%	0.0%	0.0%
2,500	\$68,620.51	\$68,835.00	\$5,727.31	\$143,182.82	\$69,805.51	\$68,835.00	\$5,776.69	\$144,417.20	\$1,185.00	\$0.00	\$49.38	\$1,234.38	0.0%	0.0%	0.0%

Present Rates

Customer Charge	\$825.00
RE Growth Factor	\$17.78
LIHEAP Charge	\$0.73
Transmission Demand Charge	\$3.97
Transmission Energy Charge	\$0.01047
Distribution Demand Charge-xcs 10 kW	\$4.44
Distribution Energy Charge	\$0.00736
Transition Energy Charge	(\$0.00058)
Energy Efficiency Program Charge	\$0.01107
Renewable Energy Distribution Charge	\$0.00344
Gross Earnings Tax	4%
Standard Offer Charge	\$0.04589

Proposed Rates

Customer Charge	\$825.00
RE Growth Factor	\$17.78
LIHEAP Charge	\$0.73
Transmission Demand Charge	\$3.97
Transmission Energy Charge	\$0.01047
Distribution Demand Charge-xcs 10 kW	\$4.44
Distribution Energy Charge	\$0.00815
Transition Energy Charge	(\$0.00058)
Energy Efficiency Program Charge	\$0.01107
Renewable Energy Distribution Charge	\$0.00344
Gross Earnings Tax	4%
Standard Offer Charge	\$0.04589

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates, Applicable to G-62 Rate Customers

Hours Use: 200

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	\$55,747.80	\$27,534.00	\$3,470.08	\$86,751.88	\$56,221.80	\$27,534.00	\$3,489.83	\$87,245.63	\$474.00	\$0.00	\$19.75	\$493.75
5,000	\$81,347.80	\$45,890.00	\$5,301.58	\$132,539.38	\$82,137.80	\$45,890.00	\$5,334.49	\$133,562.29	\$790.00	\$0.00	\$32.91	\$822.91
7,500	\$113,347.80	\$68,835.00	\$7,590.95	\$189,773.75	\$114,532.80	\$68,835.00	\$7,640.33	\$191,008.13	\$1,185.00	\$0.00	\$49.38	\$1,234.38
10,000	\$145,347.80	\$91,780.00	\$9,880.33	\$247,008.13	\$146,927.80	\$91,780.00	\$9,946.16	\$248,653.96	\$1,580.00	\$0.00	\$65.83	\$1,645.83
20,000	\$273,347.80	\$183,560.00	\$19,037.83	\$475,945.63	\$276,507.80	\$183,560.00	\$19,169.49	\$479,237.29	\$3,160.00	\$0.00	\$131.66	\$3,291.66

Proposed Rates

Present Rates

Customer Charge	\$17,000.00	
RE Growth Factor	\$347.07	
LIHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.22	kW x
Transmission Energy Charge	\$0.01378	kWh x
Distribution Demand Charge-xcs 10 kW	\$3.81	kW x
Distribution Energy Charge	\$0.00114	kWh x
Transition Energy Charge	(\$0.00058)	kWh x
Energy Efficiency Program Charge	\$0.01107	kWh x
Renewable Energy Distribution Charge	\$0.00344	kWh x
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	kWh x

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
 Total Bill Impact of Proposed
 Rates, Applicable to G-62 Rate Customers

Hours Use: 300

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	\$64,402.80	\$41,301.00	\$4,404.33	\$110,108.13	\$65,113.80	\$41,301.00	\$4,433.95	\$110,848.75	\$711.00	\$0.00	\$29.62	\$740.62
5,000	\$95,772.80	\$68,835.00	\$6,858.66	\$171,466.46	\$96,957.80	\$68,835.00	\$6,908.03	\$172,700.83	\$1,185.00	\$0.00	\$49.37	\$1,234.37
7,500	\$134,985.30	\$103,252.50	\$9,926.58	\$248,164.38	\$136,762.80	\$103,252.50	\$10,000.64	\$250,015.94	\$1,777.50	\$0.00	\$74.06	\$1,851.56
10,000	\$174,197.80	\$137,670.00	\$12,994.49	\$324,862.29	\$176,567.80	\$137,670.00	\$13,093.24	\$327,331.04	\$2,370.00	\$0.00	\$98.75	\$2,468.75
20,000	\$331,047.80	\$275,340.00	\$25,266.16	\$631,653.96	\$335,787.80	\$275,340.00	\$25,463.66	\$636,591.46	\$4,740.00	\$0.00	\$197.50	\$4,937.50

Proposed Rates

Present Rates

Customer Charge	\$17,000.00	
RE Growth Factor	\$347.07	
LIHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.22	kW x
Transmission Energy Charge	\$0.01378	kWh x
Distribution Demand Charge-xcs 10 kW	\$3.81	kW x
Distribution Energy Charge	\$0.00114	kWh x
Transition Energy Charge	(\$0.00058)	kWh x
Energy Efficiency Program Charge	\$0.01107	kWh x
Renewable Energy Distribution Charge	\$0.00344	kWh x
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	kWh x

Customer Charge	\$17,000.00	
RE Growth Factor	\$347.07	
LIHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.22	
Transmission Energy Charge	\$0.01378	
Distribution Demand Charge-xcs 10 kW	\$3.81	
Distribution Energy Charge	\$0.00193	(2)
Transition Energy Charge	(\$0.00058)	
Energy Efficiency Program Charge	\$0.01107	(1)
Renewable Energy Distribution Charge	\$0.00344	
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
 Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates, Applicable to G-62 Rate Customers

Hours Use: 400

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	\$73,057.80	\$55,068.00	\$5,338.58	\$133,464.38	\$74,005.80	\$55,068.00	\$5,378.08	\$134,451.88	\$948.00	\$0.00	\$39.50	\$987.50
5,000	\$110,197.80	\$91,780.00	\$8,415.74	\$210,393.54	\$111,777.80	\$91,780.00	\$8,481.58	\$212,039.38	\$1,580.00	\$0.00	\$65.84	\$1,645.84
7,500	\$156,622.80	\$137,670.00	\$12,262.20	\$306,555.00	\$158,992.80	\$137,670.00	\$12,360.95	\$309,023.75	\$2,370.00	\$0.00	\$98.75	\$2,468.75
10,000	\$203,047.80	\$183,560.00	\$16,108.66	\$402,716.46	\$206,207.80	\$183,560.00	\$16,240.33	\$406,008.13	\$3,160.00	\$0.00	\$131.67	\$3,291.67
20,000	\$388,747.80	\$367,120.00	\$31,494.49	\$787,362.29	\$395,067.80	\$367,120.00	\$31,757.83	\$793,945.63	\$6,320.00	\$0.00	\$263.34	\$6,583.34

Proposed Rates

Present Rates

Customer Charge	\$17,000.00	
RE Growth Factor	\$347.07	
LIHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.22	kW x
Transmission Energy Charge	\$0.01378	kWh x
Distribution Demand Charge-xcs 10 kW	\$3.81	kW x
Distribution Energy Charge	\$0.00114	kWh x
Transition Energy Charge	(\$0.00058)	kWh x
Energy Efficiency Program Charge	\$0.01107	kWh x
Renewable Energy Distribution Charge	\$0.00344	kWh x
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	kWh x

Delivery	\$74,005.80	\$55,068.00	\$5,378.08	\$134,451.88
SOS	\$55,068.00	\$55,068.00	\$5,378.08	\$134,451.88
GET	\$5,378.08	\$5,378.08	\$5,378.08	\$134,451.88
Total	\$134,451.88	\$134,451.88	\$134,451.88	\$134,451.88

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. _____
Revised Pension Adjustment Mechanism Filing
Revised Schedule WRR-3
August 3, 2016
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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-62 Rate Customers

Hours Use: 500

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
3,000	\$81,712.80	\$68,835.00	\$6,272.83	\$156,820.63	\$82,897.80	\$68,835.00	\$6,322.20	\$158,055.00	\$1,185.00	\$0.00	\$49.37	\$1,234.37
5,000	\$124,622.80	\$114,725.00	\$9,972.83	\$249,320.63	\$126,597.80	\$114,725.00	\$10,055.12	\$251,377.92	\$1,975.00	\$0.00	\$82.29	\$2,057.29
7,500	\$178,260.30	\$172,087.50	\$14,597.83	\$364,945.63	\$181,222.80	\$172,087.50	\$14,721.26	\$368,031.56	\$2,962.50	\$0.00	\$123.43	\$3,085.93
10,000	\$231,897.80	\$229,450.00	\$19,222.83	\$480,570.63	\$235,847.80	\$229,450.00	\$19,387.41	\$484,685.21	\$3,950.00	\$0.00	\$164.58	\$4,114.58
20,000	\$446,447.80	\$458,900.00	\$37,722.83	\$943,070.63	\$454,347.80	\$458,900.00	\$38,051.99	\$951,299.79	\$7,900.00	\$0.00	\$329.16	\$8,229.16

Present Rates

Customer Charge	\$17,000.00	
RE Growth Factor	\$347.07	
LHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.22	kW x
Transmission Energy Charge	\$0.01378	kWh x
Distribution Demand Charge-xes 10 kW	\$3.81	kW x
Distribution Energy Charge	\$0.00114	kWh x
Transition Energy Charge	(\$0.00058)	kWh x
Energy Efficiency Program Charge	\$0.01107	kWh x
Renewable Energy Distribution Charge	\$0.00344	kWh x
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	kWh x

Proposed Rates

Customer Charge	\$17,000.00	
RE Growth Factor	\$347.07	
LHEAP Charge	\$0.73	
Transmission Demand Charge	\$3.22	kW x
Transmission Energy Charge	\$0.01378	kWh x
Distribution Demand Charge-xes 10 kW	\$3.81	kW x
Distribution Energy Charge	\$0.00193	kWh x
Transition Energy Charge	(\$0.00058)	kWh x
Energy Efficiency Program Charge	\$0.01107	kWh x
Renewable Energy Distribution Charge	\$0.00344	kWh x
Gross Earnings Tax	4%	
Standard Offer Charge	\$0.04589	kWh x

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. _____
Revised Pension Adjustment Mechanism Filing
Revised Schedule WRR-3
August 3, 2016
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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-62 Rate Customers

Hours Use: 600

Monthly Power kW	Present Rates				Proposed Rates				Increase (Decrease)			
	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total	Delivery	SOS	GET	Total
3,000	\$90,367.80	\$82,602.00	\$7,207.08	\$180,176.88	\$91,789.80	\$82,602.00	\$7,266.33	\$181,658.13	\$1,422.00	\$0.00	\$59.25	\$1,481.25
5,000	\$139,047.80	\$137,670.00	\$11,529.91	\$288,247.71	\$141,417.80	\$137,670.00	\$11,628.66	\$290,716.46	\$2,370.00	\$0.00	\$98.75	\$2,468.75
7,500	\$199,897.80	\$206,505.00	\$16,933.45	\$423,336.25	\$203,452.80	\$206,505.00	\$17,081.58	\$427,039.38	\$3,555.00	\$0.00	\$148.13	\$3,703.13
10,000	\$260,747.80	\$275,340.00	\$22,536.99	\$558,424.79	\$265,487.80	\$275,340.00	\$22,534.49	\$563,362.29	\$4,740.00	\$0.00	\$197.50	\$4,937.50
20,000	\$504,147.80	\$550,680.00	\$43,951.16	\$1,098,778.96	\$513,627.80	\$550,680.00	\$44,346.16	\$1,108,653.96	\$9,480.00	\$0.00	\$395.00	\$9,875.00

	Present Rates	Proposed Rates
Customer Charge	\$17,000.00	\$17,000.00
RE Growth Factor	\$347.07	\$347.07
LIHEAP Charge	\$0.73	\$0.73
Transmission Demand Charge	\$3.22	\$3.22
Transmission Energy Charge	\$0.01378	\$0.01378
Distribution Demand Charge-xcs	\$3.81	\$3.81
Distribution Energy Charge	\$0.00193	\$0.00193
Transition Energy Charge	(\$0.00058)	(\$0.00058)
Energy Efficiency Program Charge	\$0.01107	\$0.01107
Renewable Energy Distribution Charge	\$0.00344	\$0.00344
Gross Earnings Tax	4%	4%
Standard Offer Charge	\$0.04589	\$0.04589

Note (1): includes the current Pension Adjustment Factor of 0.012¢/kWh
Note (2): includes the proposed Pension Adjustment Factor of 0.091¢/kWh

Pension Adjustment Factor Reconciliation
Pension Deferral Recovery

<u>Month</u>	<u>Beginning Balance</u> (a)	<u>Adjustment</u> (b)	<u>Recovery</u> (c)	<u>Ending Balance</u> (d)	<u>Interest Rate</u> (e)	<u>Interest</u> (f)
Apr-14	\$623,723			\$623,723	2.35%	\$1,221
May-14	\$624,945			\$624,945	2.35%	\$1,224
Jun-14	\$626,169			\$626,169	2.35%	\$1,226
Jul-14	\$627,395			\$627,395	2.35%	\$1,229
Aug-14	\$628,624			\$628,624	2.35%	\$1,231
Sep-14	\$629,855			\$629,855	2.35%	\$1,233
Oct-14	\$631,088			\$631,088	2.35%	\$1,236
Nov-14	\$632,324			\$632,324	2.35%	\$1,238
Dec-14	\$633,562			\$633,562	2.35%	\$1,241
Jan-15	\$634,803			\$634,803	2.35%	\$1,243
Feb-15	\$636,046			\$636,046	2.35%	\$1,246
Mar-15	\$637,292			\$637,292	2.54%	\$1,349
Apr-15	\$638,641	\$1,244,165		\$1,882,806	2.54%	\$2,669
May-15	\$1,885,475			\$1,885,475	2.54%	\$3,991
Jun-15	\$1,889,466			\$1,889,466	2.54%	\$3,999
Jul-15	\$1,893,465			\$1,893,465	2.54%	\$4,008
Aug-15	\$1,897,473			\$1,897,473	2.54%	\$4,016
Sep-15	\$1,901,489			\$1,901,489	2.54%	\$4,025
Oct-15	\$1,905,514			\$1,905,514	2.54%	\$4,033
Nov-15	\$1,909,547		\$39,681	\$1,869,866	2.54%	\$4,000
Dec-15	\$1,873,866		\$154,109	\$1,719,757	2.54%	\$3,803
Jan-16	\$1,723,560		\$156,961	\$1,566,599	2.54%	\$3,482
Feb-16	\$1,570,081		\$152,708	\$1,417,373	2.54%	\$3,162
Mar-16	\$1,420,535		\$151,548	\$1,268,986	2.14%	\$2,398
Apr-16	\$1,271,385		\$142,842	\$1,128,543	2.14%	\$2,140
May-16	\$1,130,683		\$126,646	\$1,004,037	2.14%	\$1,903
Jun-16	\$1,005,941		\$152,772	\$853,168	2.14%	\$1,658
Jul-16	\$854,826		\$0	\$854,826	2.14%	\$1,524
Aug-16	\$856,350		\$0	\$856,350	2.14%	\$1,527
Sep-16	\$857,878		\$0	\$857,878	2.14%	\$1,530
Oct-16	\$859,407		\$0	\$859,407	2.14%	\$1,533
		\$1,244,165	\$1,077,268	\$860,940		\$70,319

Column Descriptions:

- (a) Beginning balance per RIPUC 4518 Schedule WRR-3, Revised Page 1 line (1)
Prior month Column (d) + prior month Column (f)
- (b) Per RIPUC 4518 Schedule WRR-3, Revised Page 1 line (3)
- (c) Page 3 Column (e)
- (d) Column (a) Column (b) - Column (c)
- (e) Rate of interest paid on cust. Deposits
- (f) (Column (d) x (Column (e) ÷ 12))

Pension Adjustment Factor Reconciliation
PBOP Deferral Recovery

<u>Month</u>	<u>Beginning Balance</u> (a)	<u>Adjustment</u> (b)	<u>Refund</u> (c)	<u>Ending Balance</u> (d)	<u>Interest Rate</u> (e)	<u>Interest</u> (f)
Apr-14	(\$503,518)			(\$503,518)	2.35%	(\$452)
May-14	(\$503,971)			(\$503,971)	2.35%	(\$453)
Jun-14	(\$504,423)			(\$504,423)	2.35%	(\$453)
Jul-14	(\$504,876)			(\$504,876)	2.35%	(\$453)
Aug-14	(\$505,330)			(\$505,330)	2.35%	(\$454)
Sep-14	(\$505,783)			(\$505,783)	2.35%	(\$454)
Oct-14	(\$506,238)			(\$506,238)	2.35%	(\$455)
Nov-14	(\$506,692)			(\$506,692)	2.35%	(\$455)
Dec-14	(\$507,147)			(\$507,147)	2.35%	(\$455)
Jan-15	(\$507,603)			(\$507,603)	2.35%	(\$456)
Feb-15	(\$508,059)			(\$508,059)	2.35%	(\$456)
Mar-15	(\$508,515)			(\$508,515)	2.54%	(\$494)
Apr-15	(\$509,009)	(\$472,489)		(\$981,498)	2.54%	(\$994)
May-15	(\$982,492)			(\$982,492)	2.54%	(\$2,080)
Jun-15	(\$984,571)			(\$984,571)	2.54%	(\$2,084)
Jul-15	(\$986,655)			(\$986,655)	2.54%	(\$2,088)
Aug-15	(\$988,744)			(\$988,744)	2.54%	(\$2,093)
Sep-15	(\$990,837)			(\$990,837)	2.54%	(\$2,097)
Oct-15	(\$992,934)			(\$992,934)	2.54%	(\$2,102)
Nov-15	(\$995,036)		(\$20,634)	(\$974,402)	2.54%	(\$2,084)
Dec-15	(\$976,486)		(\$81,141)	(\$895,345)	2.54%	(\$1,981)
Jan-16	(\$897,326)		(\$81,590)	(\$815,736)	2.54%	(\$1,813)
Feb-16	(\$817,549)		(\$79,357)	(\$738,192)	2.54%	(\$1,646)
Mar-16	(\$739,839)		(\$78,970)	(\$660,869)	2.14%	(\$1,249)
Apr-16	(\$662,117)		(\$74,289)	(\$587,828)	2.14%	(\$1,115)
May-16	(\$588,943)		(\$65,873)	(\$523,070)	2.14%	(\$992)
Jun-16	(\$524,062)		(\$79,464)	(\$444,598)	2.14%	(\$864)
Jul-16	(\$445,461)		\$0	(\$445,461)	2.14%	(\$794)
Aug-16	(\$446,256)		\$0	(\$446,256)	2.14%	(\$796)
Sep-16	(\$447,052)		\$0	(\$447,052)	2.14%	(\$797)
Oct-16	(\$447,849)		\$0	(\$447,849)	2.14%	(\$799)
		(\$472,489)	(\$561,318)	(\$448,647)		(\$33,958)

Column Descriptions:

- (a) Beginning balance per RIPUC 4518 Schedule WRR-3, Revised Page 1 line (2)
Prior month Column (d) + prior month Column (f)
- (b) Per RIPUC 4518 Schedule WRR-3, Revised Page 1 line (4)
- (c) Page 3 Column (e)
- (d) Column (a) Column (b) - Column (c)
- (e) Rate of interest paid on cust. Deposits
- (f) (Column (d) x (Column (e) ÷ 12))

**Pension Adjustment Factor Reconciliation
Segregation of PAF Revenue Components**

	Combined Billed PAF Revenue (a)	PAF kWh Billed (b)	Component of PAF Recovering PBOP (c)	Billed Revenue Associated PBOP (d)	Billed Revenue Associated with Pension (e)
Nov-15	\$19,047	158,725,833	(\$0.00013)	(\$20,634)	\$39,681
Dec-15	\$72,968	624,159,731	(\$0.00013)	(\$81,141)	\$154,109
Jan-16	\$75,371	627,611,762	(\$0.00013)	(\$81,590)	\$156,961
Feb-16	\$73,351	610,439,511	(\$0.00013)	(\$79,357)	\$152,708
Mar-16	\$72,578	607,462,620	(\$0.00013)	(\$78,970)	\$151,548
Apr-16	\$68,553	571,456,521	(\$0.00013)	(\$74,289)	\$142,842
May-16	\$60,773	506,712,348	(\$0.00013)	(\$65,873)	\$126,646
Jun-16	\$73,308	611,260,814	(\$0.00013)	(\$79,464)	\$152,772
Jul-16			(\$0.00013)	\$0	
Aug-16			(\$0.00013)	\$0	
Sep-16			(\$0.00013)	\$0	
Oct-16			(\$0.00013)	\$0	

Column Descriptions:

- (a) Per company revenue reports
- (b) Per company revenue reports
- (c) RIPUC 4518 Schedule WRR-3, Revised Page 1 [line (1) + line (4) + line (6)] ÷ line (8), truncated to 5 decimal places
- (d) Column (b) x Column (c)
- (e) Column (b) x Column (c)