

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
PUBLIC UTILITIES COMMISSION

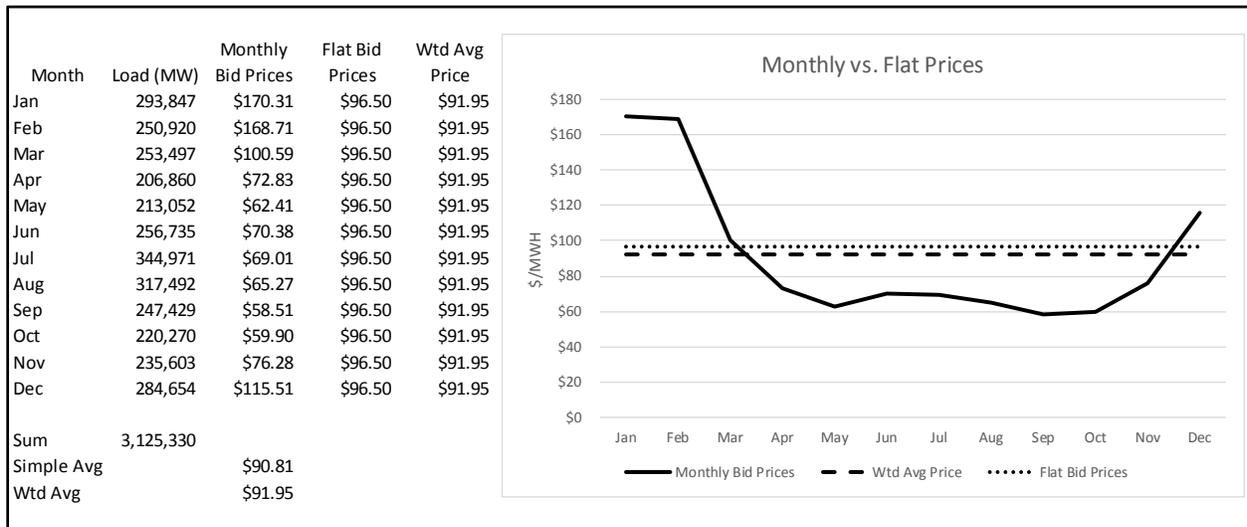
IN RE: NARRAGANSETT ELECTRIC
COMPANY d/b/a NATIONAL GRID'S
2016 STANDARD OFFER SERVICE
PROCUREMENT PLAN AND 2016
RENEWABLE ENERGY STANDARD
PROCUREMENT PLAN

DOCKET NO. 4556

THE DIVISION'S RESPONSES TO
COMMISSION'S FIRST SET OF DATA REQUESTS

COMM 1-1. Division Memo at 13. Specify how one tracks and compares risk premiums with flat versus monthly pricing? Do bids naturally reflect a risk premium, or would bidders be surveyed to determine whether a risk premium was included in their bids?

Response: One way to evaluate the premium in a 12-month flat bid price versus 12 monthly bid prices is to calculate the load weighted average of the 12 monthly bid prices and compare it to the flat bid price. Consider the example depicted in the graph below, which uses price data for 2015 residential SOS bids from Figure 9 of my April 17, 2015 memorandum. In this example, a supplier provides 12 monthly bid prices as shown, and also bids a flat bid price of \$96.50 per MWH. The expected load weighted average of the 12 monthly bid prices is \$91.95 per MWH. If the supplier were completely indifferent to the monthly prices or the flat price, it should bid \$91.95. Since the flat bid price was \$96.50, the "premium" over the monthly bids that is included in the flat bid price is \$4.55 per MWH, or about 5%, in this example. In a real bid situation, one can assess whether this higher premium is worth it to mitigate a billing adjustment risk by assigning that risk to suppliers via flat bids. One can also track this level over time to assess whether it changes significantly or not.



Prepared by: Richard S. Hahn

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COMM 1-2. Do you agree or disagree with the MA DPU's finding that it is not possible to identify in any meaningful or reliable manner the impact of eliminating the billing adjustment on standard offer pricing? (MA DPU Order No. 14-140-A at 14.) Include the reasons supporting your response.

Response: On page 14 of the MA DPU Order, it states that "Because basic service suppliers do not itemize the costs associated with each component of the bid, it is not possible to identify, in any meaningful or reliable manner, the effect that the elimination of the bill recalculation provision for residential and small C&I customers would have on basic service pricing."

One interpretation of this question is that it seeks to determine if there is a way to estimate any increase in SOS bids if SOS suppliers are asked to provide flat prices instead of monthly prices. Mr. Hahn believes that this information can be estimated by asking SOS suppliers to provide both flat bids and monthly priced bids. As discussed in the response to COMM 1-1, this can be done by comparing the weighted average of the monthly bids with the flat bids. It assumes that SOS suppliers actually provide both type of bids.

An alternative interpretation is that the question seeks to determine if there is a way to estimate the impact on SOS rates if (1) the SOS suppliers continue to bid monthly prices, (2) SOS rates remain flat, (3) the billing adjustment to individual customers is eliminated, and (4) any over-collection or under-collection caused by customer migration is included in the utility's reconciliation process. The after-the-fact impact of this scenario can be determined based upon actual historic data. Estimating what that impact might be in the future requires forecasting how many customers switch, the date on which they switch, and the differential between flat SOS prices at the time of the migration. While forecasting these variables with precision may be difficult, it is possible to make such a forecast. NGrid has recently provided a range of such estimates to the Division under specific assumptions. A copy of that information is provided as COMM 1-2 Attachment. Mr. Hahn believes that, while doable, such a forecast would have a large degree of uncertainty.

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COMM 1-3. Clarify the benefit of aligning the SOS year with the ISO-NE planning year. If this revision is adopted, it is understood that the SOS price for the first month of the rate year (June) is typically below the annual average. Explain how this mitigates price volatility or promotes rate stability.

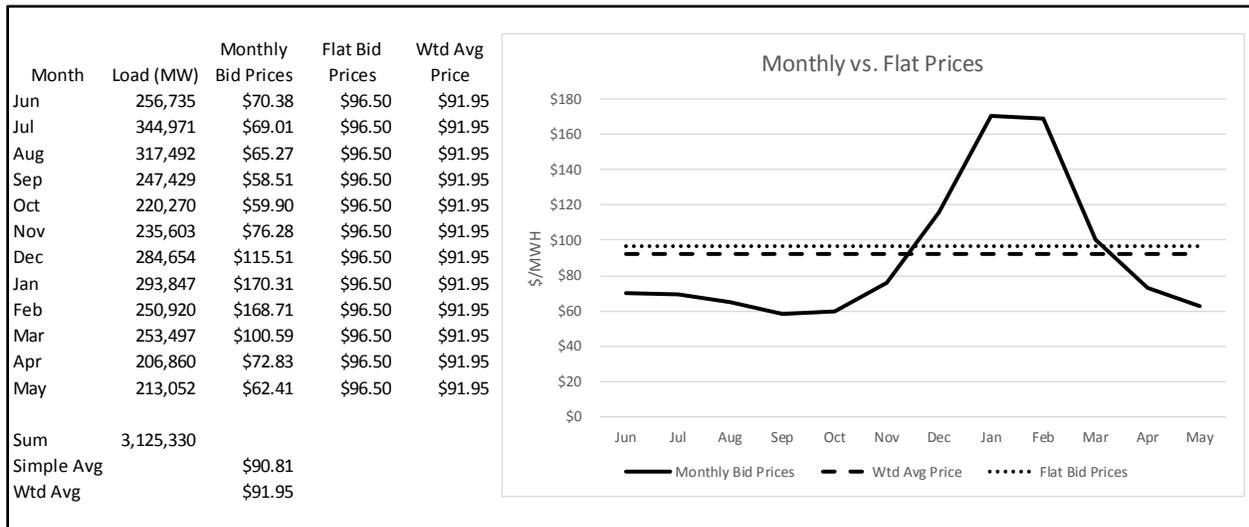
Response: Aligning the SOS rate year with the ISO-NE power year will cause June to be the first month of the rate year, and June prices have been lower than the average of prices for 12 months. If market conditions are identical for the two 12-month periods, then price levels and volatility will be the same. Alignment with the ISO-NE power year will place the procurement period closer to the period for which market prices are set. For example, if June is the first month of the SOS rate year, the final solicitation before setting rate year SOS prices will be around mid-April. This is approximately when ISO_NE establishes prices for items such as capacity costs and transmission costs. At that time, ancillary services costs for the previous winter period will be known. This should benefit consumers by contributing to more accurate bids from suppliers. Starting the rate year with a below average month-should reduce the premium in any flat bids requested and received from SOS suppliers. With June as a first month, customers that leave SOS in the first five months of the rate year will create a surplus to suppliers that bid flat SOS prices. The figure below illustrates this point. The price data used here is the same data used in the response to COMM 1-1, with the monthly prices rearranged to begin in June, instead of January.

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COMM 1-4. Division Memo at 15 (paragraph 5). When was National Grid required to estimate risk premiums for each winning bid and what was the reason for this requirement?

Response: It is Mr. Hahn's understanding that NGrid was not, and is not, required to estimate the risk premiums in SOS bids. It is his understanding that NGrid estimated this premium as a part of the process of evaluating the bids received. For example, in Docket 4041, NGrid provided confidential spreadsheets that compared bids received to the expected prices and estimated the risk premium included in the bids. Such a practice is common in evaluating any bids received.

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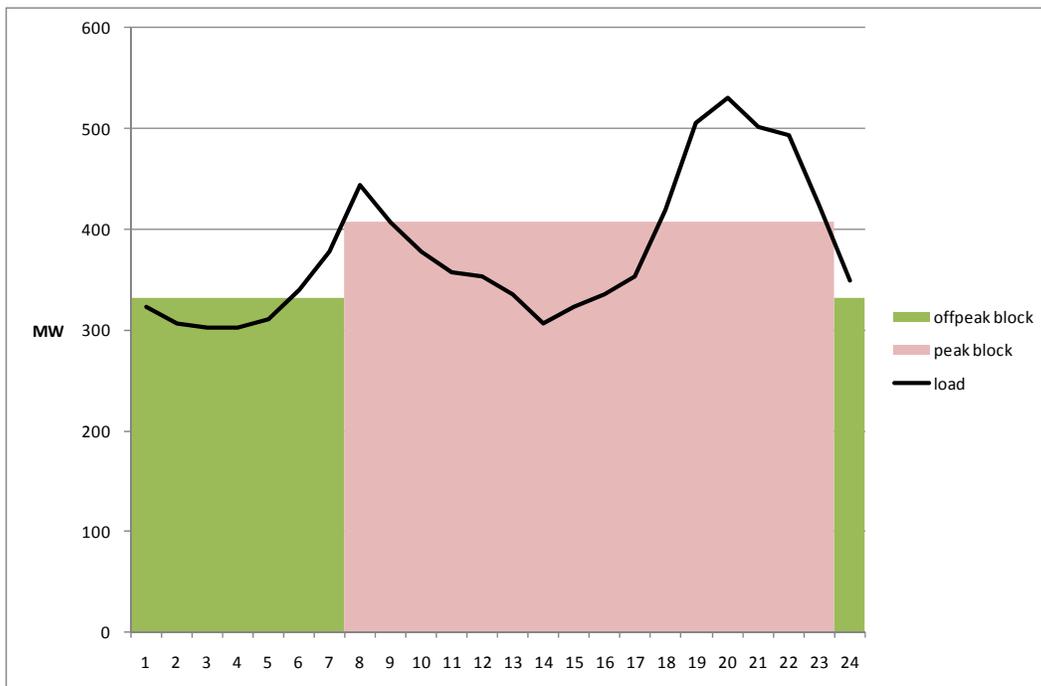
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COMM 1-5. Division Memo at 15 (paragraph 7). Define block products and indexed products.

Response: A block product is a transaction of a fixed amount of power each hour during a specific time period. In ISO-NE, block products are available for both peak and off-peak hours in 5 MW increments. The figure below is an example of block products that was originally provided in Mr. Hahn's May 13, 2010 direct testimony, page 16, in Docket NO. 4149.



An indexed product is a product whose price is tied or indexed to some standard market price index. A common example is a Heat Rate Indexed product where the price paid for power is tied to a natural gas price index, such as the Henry Hub.

Prepared by: Richard S. Hahn

DOCKET 4556
ATTACHMENT TO DIVISION RESPONSE TO COMM-1-2

13 PAGE ATTACHMENT INCLUDING THIS COVER WHICH IS NATIONAL GRID'S RESPONSE TO INFORMAL INFORMATION REQUESTS ISSUED BY THE DIVISION IN MARCH 2015 REGARDING THE STANDARD OFFER BILLING ADJUSTMENT.

The Division of Public Utilities and Carriers
Information Request to National Grid
Issued on March 18, 2015

Request 1:

Please provide the total amount of Standard Offer Billing Adjustments to date in the Residential and Commercial Groups since the January 1, 2015 standard offer pricing period began.

Response:

The total amount of Standard Offer Billing Adjustments in the Residential Group for the months of January 2015 and February 2015 is an aggregate charge to customers of \$143,951.59. The total amount of Standard Offer Billing Adjustments in the Commercial Group for the months of January 2015 and February 2015 is an aggregate charge to customers of \$82,930.31.

Request 2:

Please provide an estimate of the total standard offer billing adjustments for the residential class in total (A-16 and A-60) for 2015. You may select the assumptions relative to the magnitude and timing of customer migration during 2015 for the calculation of the estimate. Please note the assumptions used in the answer. The Division is trying to get a handle on the potential magnitude of total standard offer billing adjustments in 2015. A response that provides an estimate of total billing adjustment under a reasonable range of migration assumptions would be helpful.

Response:

Please see Attachment DIV-2 for an analysis that provides an estimate of the total standard offer billing adjustments for 2015 for the Residential Group under three hypothetical migration rates, timing, and usage assumptions. First, the Company has assumed three levels of annual migration: 1.0%, 3.0% and 5.0%. For the 12-month period ending February 2015, actual annual migration for the Residential Group was approximately 3.2%. However, the rate for the most recent six-month period was negative (i.e., an increase in Standard Offer Service (SOS) customers relative to competitively supplied customers). Next, for each level of annual migration, the Company assumed three scenarios regarding the timing of the migration. The first scenario, "Late Year Migration," assumes that 75% of the customers migrate during July through December, with an equal number in each month. The second scenario, "Even Migration," assumes 1/12th of the total year's migration in each month of 2015. The third scenario, "Early Year Migration," assumes 75% of the customers migrate during January through June, again, with an equal number of customers migrating in each month. The number of customers migrating per month for these three scenarios are shown in columns (h), (i), and (j) of the rate class tables beginning on page 3 of the attached file. Columns (k), (l), and (m) show the total billing adjustment for each month based on the three migration scenarios. The Summary provided on page 1 reflects the total annual estimated number of customers based on the migration rates assumed along with the associated total annual billing adjustment for each hypothetical migration rate and for each of the three migration timing scenarios.

Request 3:

Please provide similar information as requested in question 2, but for the Commercial group.

Response:

Please see Attachment DIV-2 for an analysis that provides an estimate of the total standard offer billing adjustments for 2015 for the Commercial Group (not including outdoor lighting) based upon similar assumptions as described in the Company's response to Division Request 2 above for the Residential Group. However, the analysis for the Commercial Group is for the six-month period through June 2015, since SOS rates for this group are not approved beyond June 2015. The analysis uses annual migration levels of 3.5%, 5.0% and 7.5% for the Commercial Group. For Rate C-06, the actual rate of migration for the 12-month period ending February 2015 is approximately 6.2%, and for the most recent six-month period is approximately 5.2%.

Request 4:

For the most recently available data, please provide the number of customers in the A-16 class, A-60 class, C-06 class, and G-02 class that are on standard offer service and competitive supply.

Response:

Please see the table below:

Electric Commodity Supplier by Rate Class as of February 2015		
Rate Class	Standard Offer Service	Competitive Supplier
A-16	369,302	21,183
A-60	41,191	3,308
C-06	41,187	8,336
G-02	5,267	2,876
Total	456,947	35,703

Request 5:

For the C-02 and G-02 classes, what is the breakdown of standard offer customers receiving flat standard offer prices and monthly standard offer prices?

Response:

Based on billing during the February 2015 billing month, the number of Rate C-06 customers on the fixed rate option for SOS is 41,158, with the remainder, 29, on the variable rate option. The number of Rate G-02 customers on the fixed rate option of SOS is 106, with the remainder, 5,161, on the variable rate option.

The Narragansett Electric Company
Illustrative Standard Offer Service Billing Adjustment Calculation - Summary Page

TABLE 1. Summary Illustrative SOS Migration Billing Adjustment Calculation. Rate A-16

Estimated Annual Migration rate	Estimate of total customer migrations	Cumulative Billing Adjustment Estimate Late Year Migration	Cumulative Billing Adjustment Estimate Even Distribution	Cumulative Billing Adjustment Estimate Early Year Migration
1.0%	3,693	\$135,188	\$198,424	\$261,660
3.0%	11,076	\$405,452	\$595,107	\$784,763
5.0%	18,468	\$676,046	\$992,275	\$1,308,505

TABLE 2. Summary Illustrative SOS Migration Billing Adjustment Calculation. Rate A-60

Estimated Annual Migration rate	Estimate of total customer migrations	Cumulative Billing Adjustment Estimate Late Year Migration	Cumulative Billing Adjustment Estimate Even Distribution	Cumulative Billing Adjustment Estimate Early Year Migration
1.0%	412	\$16,419	\$22,982	\$29,546
3.0%	1,236	\$49,268	\$68,962	\$88,657
5.0%	2,064	\$82,273	\$115,160	\$148,048

TABLE 3. Summary Illustrative SOS Migration Billing Adjustment Calculation. Rate C-06

Estimated Annual Migration rate	Estimate of total customer migrations	Cumulative Billing Adjustment Estimate Late Year Migration	Cumulative Billing Adjustment Estimate Even Distribution	Cumulative Billing Adjustment Estimate Early Year Migration
3.5%	1,440	\$98,974	\$118,323	\$137,673
5.0%	2,058	\$141,450	\$169,104	\$196,758
7.5%	3,090	\$212,381	\$253,902	\$295,424

TABLE 4. Summary Illustrative SOS Migration Billing Adjustment Calculation. Rate G-02

Estimated Annual Migration rate	Estimate of total customer migrations	Cumulative Billing Adjustment Estimate Late Year Migration	Cumulative Billing Adjustment Estimate Even Distribution	Cumulative Billing Adjustment Estimate Early Year Migration
3.5%	4	\$3,326	\$3,799	\$4,273
5.0%	5	\$4,157	\$4,749	\$5,341
7.5%	8	\$6,651	\$7,598	\$8,545

The Narragansett Electric Company
Standard Offer Service Billing Adjustment Calculation
Estimate 1

The Narragansett Electric Company
Simulated Offer Service Billing Adjustment Calculation

TABLE 1. Illustrative SOS Migration Billing Adjustment Calculation, Rate A-16

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage A-16 Rate (c)	Amount Billed (d)	Actual Cost (e)	Monthly Difference (f)	Billing Adjustment (estimate per customer) (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Even Distribution (l)	Cumulative Billing Adjustment Estimate Early Year Migration (m)
Jan-2015	\$0.09922	\$0.18345	666	\$66.08	\$122.18	\$56.10	\$56.10	154	308	462	\$8,632.00	\$17,264.00	\$25,896.00
Feb-2015	\$0.09922	\$0.17444	675	\$66.97	\$117.75	\$50.77	\$106.87	154	308	462	\$16,444.81	\$32,889.63	\$49,334.44
Mar-2015	\$0.09922	\$0.10410	590	\$58.54	\$61.42	\$2.88	\$109.75	154	308	462	\$16,887.85	\$33,775.71	\$50,663.56
Apr-2015	\$0.09922	\$0.07743	499	\$49.51	\$38.64	(\$10.87)	\$98.88	154	308	462	\$15,214.73	\$30,429.46	\$45,644.19
May-2015	\$0.09922	\$0.06598	459	\$45.54	\$30.38	(\$15.20)	\$83.62	154	308	462	\$12,867.02	\$25,734.04	\$38,601.07
Jun-2015	\$0.09922	\$0.07438	442	\$43.86	\$32.88	(\$10.98)	\$73.64	154	308	462	\$11,177.58	\$22,355.15	\$33,532.73
Jul-2015	\$0.09922	\$0.07477	603	\$59.83	\$45.09	(\$14.74)	\$55.90	462	308	154	\$56,726.79	\$17,817.86	\$8,908.91
Aug-2015	\$0.09922	\$0.07265	661	\$65.38	\$48.02	(\$17.36)	\$40.33	462	308	154	\$18,619.33	\$12,412.89	\$6,206.44
Sep-2015	\$0.09922	\$0.06415	600	\$59.33	\$38.49	(\$21.04)	\$32.29	462	308	154	\$8,905.77	\$5,307.18	\$2,988.59
Oct-2015	\$0.09922	\$0.06534	467	\$46.34	\$30.61	(\$15.73)	\$35.36	462	308	154	\$1,465.03	\$1,096.69	\$548.34
Nov-2015	\$0.09922	\$0.08237	460	\$45.64	\$37.89	(\$7.75)	(\$4.19)	462	308	154	(\$1,288.69)	(\$644.35)	\$0.00
Dec-2015	\$0.09922	\$0.12995	557	\$55.27	\$72.38	n/a	n/a	462	308	154	\$0.00	\$0.00	\$0.00
Totals								3,693	3,693	3,693	\$135,187.88	\$198,423.92	\$261,659.95

(a) Approved 12-month SOS Residential Base charge
 (b) Docket No. 4393, Attachment 1, page 3 for January through June; July through Dec estimated per RIPIUC Docket 4393, Attachment COMM 3-1
 (c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
 (d) Column (a) x Column (c)
 (e) Column (b) x Column (c)
 (f) Column (d) - Column (e)
 (g) Column (f) + prior month Column (g); proration not included in calculation
 (h) For months of January - June, 1% annual migration assumed x 75%; For months of July - December, 1% annual migration assumed x 75%
 (i) 1% annual migration assumption / 12 months
 (j) For months of January - June, 1% annual migration assumed x 75%; For months of July - December, 1% annual migration assumed x 25%
 (k) Column (g) x Column (i)
 (l) Column (h) x Column (i)
 (m) Column (k) x Column (i)

TABLE 2. Illustrative SOS Migration Billing Adjustment Calculation, Rate A-60

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage A-60 Rate (c)	Amount Billed (d)	Actual Cost (e)	Monthly Difference (f)	Billing Adjustment (estimate per customer) (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Even Distribution (l)	Cumulative Billing Adjustment Estimate Early Year Migration (m)
Jan-2015	\$0.09922	\$0.18345	663	\$65.78	\$121.63	\$55.84	\$55.84	17	34	51	\$958.45	\$1,916.91	\$2,875.36
Feb-2015	\$0.09922	\$0.17444	672	\$66.68	\$117.22	\$50.55	\$106.39	17	34	51	\$1,826.00	\$3,652.01	\$5,478.01
Mar-2015	\$0.09922	\$0.10410	603	\$59.83	\$62.77	\$2.94	\$109.33	17	34	51	\$1,876.51	\$3,753.01	\$5,629.52
Apr-2015	\$0.09922	\$0.07743	507	\$50.30	\$39.36	(\$11.05)	\$98.29	17	34	51	\$1,686.90	\$3,373.80	\$5,060.70
May-2015	\$0.09922	\$0.06598	455	\$45.15	\$30.02	(\$15.12)	\$83.16	17	34	51	\$1,427.32	\$2,854.65	\$4,281.97
Jun-2015	\$0.09922	\$0.07438	411	\$40.78	\$30.57	(\$10.21)	\$72.95	17	34	51	\$1,252.10	\$2,504.21	\$3,756.31
Jul-2015	\$0.09922	\$0.07477	545	\$54.07	\$40.75	(\$13.33)	\$59.63	51	34	17	\$3,070.21	\$2,046.61	\$1,033.40
Aug-2015	\$0.09922	\$0.07265	581	\$57.65	\$42.21	(\$15.44)	\$44.19	51	34	17	\$2,753.57	\$1,510.91	\$758.46
Sep-2015	\$0.09922	\$0.06415	539	\$53.48	\$34.58	(\$18.90)	\$33.29	51	34	17	\$1,302.09	\$868.06	\$434.03
Oct-2015	\$0.09922	\$0.06534	426	\$42.27	\$27.92	(\$14.35)	\$30.94	51	34	17	\$563.35	\$375.56	\$187.78
Nov-2015	\$0.09922	\$0.08237	441	\$43.76	\$36.33	(\$7.43)	\$33.51	51	34	17	\$180.74	\$120.49	\$60.25
Dec-2015	\$0.09922	\$0.12995	543	\$53.88	\$70.56	n/a	n/a	51	34	17	\$0.00	\$0.00	\$0.00
Totals								412	412	412	\$16,419.05	\$22,982.42	\$29,445.79

(a) Approved 12-month SOS Residential Base charge
 (b) Docket No. 4393, Attachment 1, page 3 for January through June; July through Dec estimated per RIPIUC Docket 4393, Attachment COMM 3-1
 (c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
 (d) Column (a) x Column (c)
 (e) Column (b) x Column (c)
 (f) Column (d) - Column (e)
 (g) Column (f) + prior month Column (g); proration not included in calculation
 (h) For months of January - June, 1% annual migration assumed x 75%; For months of July - December, 1% annual migration assumed x 75%
 (i) 1% annual migration assumption / 12 months
 (j) For months of January - June, 1% annual migration assumed x 75%; For months of July - December, 1% annual migration assumed x 25%
 (k) Column (g) x Column (i)
 (l) Column (h) x Column (i)
 (m) Column (k) x Column (i)

TABLE 3. Illustrative SOS Migration Billing Adjustment Calculation, Rate C-06.

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage C-06 Rate (c)	Amount Billed (d)	Actual Cost (10% deferred) (e)	Monthly Difference (f)	Billing Adjustment (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Even Distribution (l)	Cumulative Billing Adjustment Estimate Early Year Migration (m)
Jan-2015	\$0.11127	\$0.17834	1,002	\$111.49	\$178.70	\$67.20	\$67.20	120	240	360	\$8,064.50	\$16,128.99	\$24,193.49
Feb-2015	\$0.11127	\$0.17449	1,039	\$115.61	\$180.26	\$64.65	\$131.85	120	240	360	\$15,822.09	\$31,644.17	\$47,466.26
Mar-2015	\$0.11127	\$0.10701	886	\$98.59	\$94.81	(\$3.77)	\$128.08	120	240	360	\$15,369.16	\$30,738.33	\$46,107.49
Apr-2015	\$0.11127	\$0.06778	789	\$87.79	\$53.48	(\$34.31)	\$93.76	360	240	120	\$33,754.59	\$22,503.06	\$11,251.53
May-2015	\$0.11127	\$0.05608	758	\$84.34	\$42.51	(\$41.83)	\$51.93	360	240	120	\$18,694.34	\$12,462.90	\$6,231.45
Jun-2015	\$0.11127	\$0.06867	745	\$82.90	\$51.16	(\$31.74)	\$20.19	360	240	120	\$7,269.02	\$4,846.02	\$2,423.01
Totals								1,440	1,440	1,440	\$98,973.70	\$118,323.46	\$137,673.22

- (a) Approved 6-month SOS Commercial Base charge
- (b) Commercial SOS Variable rates as per RPLIC 2006
- (c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
- (d) Column (a) x Column (c)
- (e) Column (b) x Column (c)
- (f) Column (e) - Column (d)
- (g) Column (f) + prior month Column (g); proration not included in calculation
- (h) For months of January - March, 3.5% 6-month migration assumed x 25%. For months of April - June, 3.5% 6-month migration assumed x 75%
- (i) 3.5% 6-month migration assumption / 6
- (j) For months of January - March, 3.5% 6-month migration assumed x 75%. For months of April - June, 3.5% 6-month migration assumed x 25%
- (k) Column (g) x Column (h)
- (l) Column (i) x Column (i)
- (m) Column (g) x Column (i)

TABLE 4. Illustrative SOS Migration Billing Adjustment Calculation, Rate G-02.

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage G-02 Rate (c)	Amount Billed (d)	Actual Cost (10% deferred) (e)	Monthly Difference (f)	Billing Adjustment (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Even Distribution (l)	Cumulative Billing Adjustment Estimate Early Year Migration (m)
Jan-2015	\$0.11127	\$0.17834	11,281	\$1,255.24	\$2,011.85	\$756.62	\$756.62	0	1	1	\$232.21	\$504.41	\$736.62
Feb-2015	\$0.11127	\$0.17449	10,615	\$1,811.13	\$1,841.60	\$600.47	\$1,417.08	0	1	1	\$472.36	\$944.72	\$1,417.08
Mar-2015	\$0.11127	\$0.10701	7,308	\$813.16	\$782.03	(\$31.13)	\$1,385.95	0	1	1	\$461.98	\$923.97	\$1,385.95
Apr-2015	\$0.11127	\$0.06778	7,102	\$790.24	\$481.37	(\$308.87)	\$1,077.08	1	1	0	\$1,077.08	\$718.06	\$359.03
May-2015	\$0.11127	\$0.05608	7,116	\$791.80	\$399.07	(\$392.73)	\$684.35	1	1	0	\$684.35	\$456.23	\$228.12
Jun-2015	\$0.11127	\$0.06867	7,202	\$801.37	\$494.56	(\$306.81)	\$377.55	1	1	0	\$377.55	\$231.70	\$125.85
Totals								4	4	4	\$3,325.53	\$3,799.09	\$4,272.64

- (a) Approved 6-month SOS Commercial Base charge
- (b) Commercial SOS Variable rates as per RPLIC 2006
- (c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
- (d) Column (a) x Column (c)
- (e) Column (b) x Column (c)
- (f) Column (e) - Column (d)
- (g) Column (f) + prior month Column (g); proration not included in calculation
- (h) For months of January - March, 3.5% 6-month migration assumed x 25%. For months of April - June, 3.5% 6-month migration assumed x 75%
- (i) 3.5% 6-month migration assumption / 6
- (j) Number of customers migrating per month; assumes 3.5% annual migration
- (k) Column (g) x Column (h)
- (l) Column (i) x Column (i)
- (m) Column (g) x Column (i)

The Narragansett Electric Company
Standard Offer Service Billing Adjustment Calculation

Estimate 2

The Narragansett Electric Company
Standard Offer Service Billing Adjustment Calculation

TABLE 1. Illustrative SOS Migration Billing Adjustment Calculation, Rate A-16

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage A-16 Rate (c)	Amount Billed (d)	Actual Cost (e)	Monthly Difference (f)	Billing Adjustment (estimate per customer) (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Even Distribution (l)	Cumulative Billing Adjustment Estimate Early Year Migration (m)
Jan-2015	\$0.09922	\$0.18345	666	\$66.08	\$122.18	\$56.10	\$56.10	462	923	1,385	\$25,898.85	\$31,777.70	\$77,666.55
Feb-2015	\$0.09922	\$0.17444	675	\$66.97	\$117.75	\$50.77	\$106.87	462	923	1,385	\$49,320.82	\$98,641.64	\$147,962.46
Mar-2015	\$0.09922	\$0.16543	590	\$58.54	\$81.92	\$23.88	\$109.75	462	923	1,385	\$50,649.57	\$101,299.14	\$151,948.71
Apr-2015	\$0.09922	\$0.15642	499	\$49.51	\$38.64	(\$10.87)	\$98.88	462	923	1,385	\$45,631.58	\$91,263.17	\$136,894.75
May-2015	\$0.09922	\$0.14741	459	\$45.54	\$30.28	(\$15.26)	\$88.62	462	923	1,385	\$38,596.40	\$77,186.81	\$115,771.21
Jun-2015	\$0.09922	\$0.13840	442	\$43.86	\$22.88	(\$20.98)	\$77.64	462	923	1,385	\$33,523.47	\$67,046.35	\$100,570.40
Jul-2015	\$0.09922	\$0.12939	603	\$59.83	\$45.09	(\$14.74)	\$65.59	1,385	923	462	\$80,158.23	\$55,438.82	\$26,719.41
Aug-2015	\$0.09922	\$0.12038	661	\$66.58	\$48.02	(\$18.56)	\$40.33	1,385	923	462	\$55,842.58	\$37,228.38	\$18,614.19
Sep-2015	\$0.09922	\$0.11137	600	\$59.53	\$38.49	(\$21.04)	\$19.29	1,385	923	462	\$26,709.59	\$17,806.62	\$8,903.31
Oct-2015	\$0.09922	\$0.10236	467	\$46.34	\$30.61	(\$15.73)	\$15.56	1,385	923	462	\$4,933.73	\$1,644.58	\$1,644.58
Nov-2015	\$0.09922	\$0.09335	460	\$45.64	\$37.89	(\$7.75)	n/a	1,385	923	462	(\$5,797.52)	(\$1,932.51)	(\$1,932.51)
Dec-2015	\$0.09922	\$0.12995	557	\$55.27	\$72.38	n/a	n/a	1,385	923	462	\$0.00	\$0.00	\$0.00
Totals								11,076	11,076	11,076	\$405,451.63	\$595,107.34	\$784,763.85

(a) Approved 12-month SOS Residential Base charge
(b) Docket No. 4393, Attachment 1, page 3 for January through June; July through Dec estimated per RUPUC Docket 4393, Attachment COMM-3-1
(c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
(d) Column (a) x Column (c)
(e) Column (b) x Column (c)
(f) Column (e) - Column (d)
(g) Column (f) + prior month Column (g); promotion not included in calculation
(h) For months of January - June, 3% annual migration assumed x 25%; For months of July - December, 3% annual migration assumed x 75%
(i) 3% annual migration assumption / 12 months
(j) For months of January - June, 3% annual migration assumed x 75%; For months of July - December, 3% annual migration assumed x 25%
(k) Column (g) x Column (h)
(l) Column (g) x Column (i)
(m) Column (g) x Column (j)

TABLE 2. Illustrative SOS Migration Billing Adjustment Calculation, Rate A-60

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage A-60 Rate (c)	Amount Billed (d)	Actual Cost (e)	Monthly Difference (f)	Billing Adjustment (estimate per customer) (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Even Distribution (l)	Cumulative Billing Adjustment Estimate Early Year Migration (m)
Jan-2015	\$0.09922	\$0.18345	663	\$66.78	\$121.63	\$55.84	\$55.84	52	103	155	\$3,875.99	\$5,251.98	\$8,627.97
Feb-2015	\$0.09922	\$0.17444	672	\$66.68	\$117.22	\$50.55	\$106.39	52	103	155	\$5,479.20	\$10,958.41	\$16,437.61
Mar-2015	\$0.09922	\$0.16543	603	\$59.83	\$62.77	\$2.94	\$109.33	52	103	155	\$5,050.75	\$11,261.50	\$16,892.25
Apr-2015	\$0.09922	\$0.15642	507	\$50.30	\$39.26	(\$11.05)	\$98.29	52	103	155	\$5,061.80	\$10,123.61	\$15,185.41
May-2015	\$0.09922	\$0.14741	455	\$45.15	\$30.02	(\$15.12)	\$83.16	52	103	155	\$4,282.91	\$8,565.81	\$12,848.72
Jun-2015	\$0.09922	\$0.13840	411	\$40.78	\$20.57	(\$20.21)	\$72.95	52	103	155	\$3,757.13	\$7,514.26	\$11,271.59
Jul-2015	\$0.09922	\$0.12939	545	\$54.07	\$40.75	(\$13.33)	\$59.63	155	103	52	\$9,212.64	\$6,141.76	\$3,070.88
Aug-2015	\$0.09922	\$0.12038	581	\$57.65	\$42.21	(\$15.44)	\$44.19	155	103	52	\$6,827.60	\$4,551.73	\$2,275.87
Sep-2015	\$0.09922	\$0.11137	539	\$53.48	\$34.58	(\$18.90)	\$25.29	155	103	52	\$3,907.13	\$2,604.75	\$1,302.38
Oct-2015	\$0.09922	\$0.10236	426	\$42.27	\$27.92	(\$14.35)	\$10.94	155	103	52	\$1,690.41	\$1,126.94	\$563.47
Nov-2015	\$0.09922	\$0.18237	441	\$43.76	\$36.33	(\$7.43)	n/a	155	103	52	\$542.34	\$361.56	\$180.78
Dec-2015	\$0.09922	\$0.12995	543	\$53.88	\$70.56	n/a	n/a	155	103	52	\$0.00	\$0.00	\$0.00
Totals								1,236	1,236	1,236	\$49,267.91	\$68,626.33	\$88,656.74

(a) Approved 12-month SOS Residential Base charge
(b) Docket No. 4393, Attachment 1, page 3 for January through June; July through Dec estimated per RUPUC Docket 4393, Attachment COMM-3-1
(c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
(d) Column (a) x Column (c)
(e) Column (b) x Column (c)
(f) Column (e) - Column (d)
(g) Column (f) + prior month Column (g); promotion not included in calculation
(h) For months of January - June, 3% annual migration assumed x 25%; For months of July - December, 3% annual migration assumed x 75%
(i) 3% annual migration assumption / 12 months
(j) For months of January - June, 3% annual migration assumed x 75%; For months of July - December, 3% annual migration assumed x 25%
(k) Column (g) x Column (h)
(l) Column (g) x Column (i)
(m) Column (g) x Column (j)

TABLE 3. Illustrative SOS Migration Billing Adjustment Calculation, Rate C-06.

Month	SOS Fixed Charge	SOS Variable Charge	Average kWh Usage C-06 Rate	Amount Billed	Actual Cost (10% deferred)	Monthly Difference	Billing Adjustment	Estimated Number of Migrated Customers Late Migration	Estimated Number of Migrated Customers Even Migration	Estimated Number of Migrated Customers Early Migration	Cumulative Billing Adjustment Estimate Late Year Migration	Cumulative Billing Adjustment Estimate Even Distribution	Cumulative Billing Adjustment Estimate Early Year Migration
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Jan-2015	\$0.11127	\$0.17834	1,002	\$111.49	\$178.70	\$67.20	\$67.20	172	343	515	\$11,525.51	\$23,051.02	\$34,576.53
Feb-2015	\$0.11127	\$0.17349	1,039	\$115.61	\$180.26	\$64.65	\$131.85	172	343	515	\$22,612.40	\$45,224.80	\$67,837.20
Mar-2015	\$0.11127	\$0.10701	886	\$98.59	\$94.81	(\$3.77)	\$128.08	172	343	515	\$21,965.10	\$43,910.19	\$65,895.29
Apr-2015	\$0.11127	\$0.06778	789	\$87.29	\$53.48	(\$34.31)	\$93.76	172	343	515	\$48,240.93	\$32,160.62	\$16,080.31
May-2015	\$0.11127	\$0.05608	758	\$84.34	\$42.51	(\$41.83)	\$51.93	172	343	515	\$26,717.33	\$17,811.55	\$8,905.78
Jun-2015	\$0.11127	\$0.06867	745	\$82.90	\$51.16	(\$31.74)	\$70.19	172	343	515	\$10,388.65	\$6,925.76	\$1,462.88
Totals								2,658	2,658	2,658	\$141,449.92	\$169,103.95	\$196,757.98

(a) Approved 6-month SOS Commercial Base charge
 (b) Commercial SOS Variable rates as per RUPUC 2016
 (c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
 (d) Column (a) x Column (c)
 (e) Column (b) x Column (c)
 (f) Column (e) - Column (d)
 (g) Column (f) + prior month Column (g); proration not included in calculation
 (h) For months of January - March, 5% 6-month migration assumed x 25%; For months of April - June, 5% 6-month migration assumed x 75%
 (i) 5% 6-month migration assumption / 6
 (j) For months of January - March, 5% 6-month migration assumed x 25%; For months of April - June, 5% 6-month migration assumed x 25%
 (k) Column (g) x Column (h)
 (l) Column (i) x Column (h)
 (m) Column (k) x Column (l)

TABLE 4. Illustrative SOS Migration Billing Adjustment Calculation, Rate G-02.

Month	SOS Fixed Charge	SOS Variable Charge	Average kWh Usage G-02 Rate	Amount Billed	Actual Cost (10% deferred)	Monthly Difference	Billing Adjustment	Estimated Number of Migrated Customers Late Migration	Estimated Number of Migrated Customers Even Migration	Estimated Number of Migrated Customers Early Migration	Cumulative Billing Adjustment Estimate Late Year Migration	Cumulative Billing Adjustment Estimate Even Distribution	Cumulative Billing Adjustment Estimate Early Year Migration
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Jan-2015	\$0.11127	\$0.17834	11,281	\$1,255.24	\$2,011.85	\$756.62	\$756.62	0	1	1	\$315.26	\$630.51	\$945.77
Feb-2015	\$0.11127	\$0.17349	10,615	\$1,811.13	\$1,841.60	\$660.47	\$1,417.08	0	1	1	\$590.45	\$1,180.90	\$1,771.35
Mar-2015	\$0.11127	\$0.10701	7,308	\$782.03	\$782.03	(\$31.13)	\$1,385.95	0	1	1	\$577.48	\$1,154.96	\$1,732.44
Apr-2015	\$0.11127	\$0.06778	7,102	\$790.24	\$481.37	(\$308.87)	\$1,077.08	0	1	0	\$1,346.35	\$897.57	\$488.78
May-2015	\$0.11127	\$0.05608	7,116	\$791.80	\$399.07	(\$392.73)	\$684.35	1	1	0	\$855.44	\$570.29	\$285.15
Jun-2015	\$0.11127	\$0.06867	7,202	\$801.37	\$494.56	(\$306.81)	\$377.55	1	1	0	\$471.93	\$314.62	\$157.31
Totals								5	5	5	\$4,156.91	\$4,768.86	\$5,340.80

(a) Approved 6-month SOS Commercial Base charge
 (b) Commercial SOS Variable rates as per RUPUC 2016
 (c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
 (d) Column (a) x Column (c)
 (e) Column (b) x Column (c)
 (f) Column (e) - Column (d)
 (g) Column (f) + prior month Column (g); proration not included in calculation
 (h) For months of January - March, 5% 6-month migration assumed x 25%; For months of April - June, 5% 6-month migration assumed x 75%
 (i) 5% 6-month migration assumption / 6
 (j) For months of January - March, 5% 6-month migration assumed x 25%; For months of April - June, 5% 6-month migration assumed x 25%
 (k) Column (g) x Column (h)
 (l) Column (i) x Column (h)
 (m) Column (k) x Column (l)

The Narragansett Electric Company
Standard Offer Service Billing Adjustment Calculation
Estimate 3

The Narragansett Electric Company
Standard Offer Service Billing Adjustment Calculation

TABLE 1. Illustrative SOS Migration Billing Adjustment Calculation, Rate A-16

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage A-16 Rate (c)	Amount Billed (d)	Actual Cost (e)	Monthly Difference (f)	Billing Adjustment (estimate per customer) (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Even Distribution (l)	Cumulative Billing Adjustment Estimate Early Year Migration (m)
Jan-2015	\$0.09922	\$0.18345	666	\$66.08	\$122.18	\$56.10	\$56.10	770	1,539	2,309	\$43,166.78	\$86,333.56	\$129,500.34
Feb-2015	\$0.09922	\$0.17444	675	\$66.97	\$117.25	\$50.77	\$106.87	770	1,539	2,309	\$82,236.99	\$164,473.98	\$246,710.96
Mar-2015	\$0.09922	\$0.10410	590	\$58.34	\$61.62	\$2.88	\$109.75	770	1,539	2,309	\$84,452.53	\$168,905.07	\$253,357.60
Apr-2015	\$0.09922	\$0.07743	499	\$49.51	\$38.64	(\$10.87)	\$98.88	770	1,539	2,309	\$76,085.60	\$152,171.20	\$228,256.79
May-2015	\$0.09922	\$0.06598	455	\$45.54	\$30.28	(\$15.26)	\$83.62	770	1,539	2,309	\$64,345.21	\$128,690.43	\$193,035.64
Jun-2015	\$0.09922	\$0.07438	442	\$44.26	\$32.88	(\$11.38)	\$72.64	770	1,539	2,309	\$55,896.66	\$111,793.31	\$167,689.97
Jul-2015	\$0.09922	\$0.07477	603	\$59.83	\$43.09	(\$16.74)	\$57.50	2,309	1,539	770	\$133,654.95	\$89,103.30	\$44,551.65
Aug-2015	\$0.09922	\$0.07265	661	\$65.58	\$48.02	(\$17.56)	\$40.33	2,309	1,539	770	\$93,111.29	\$62,074.20	\$31,027.10
Sep-2015	\$0.09922	\$0.06415	600	\$59.53	\$38.49	(\$21.04)	\$19.29	2,309	1,539	770	\$44,535.84	\$29,690.36	\$14,865.28
Oct-2015	\$0.09922	\$0.06554	467	\$46.34	\$30.61	(\$15.73)	\$3.56	2,309	1,539	770	\$8,226.46	\$5,484.30	\$2,742.15
Nov-2015	\$0.09922	\$0.08237	460	\$45.64	\$37.89	(\$7.75)	(\$4.19)	2,309	1,539	770	(\$9,666.73)	(\$6,444.49)	(\$3,222.24)
Dec-2015	\$0.09922	\$0.12995	557	\$55.27	\$72.38	n/a	n/a	2,309	1,539	770	\$0.00	\$0.00	\$0.00
Totals								18,468	18,468	18,468	\$676,045.57	\$992,275.41	\$1,208,505.24

(a) Approved 12-month SOS Residential Base charge
(b) Docket No. 4393, Attachment 1, page 3 for January through June; July through Dec estimated per RIPIUC Docket 4393, Attachment COMM 3-1
(c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
(d) Column (b) x Column (c)
(e) Column (b) x Column (c)
(f) Column (e) - Column (d)
(g) Column (f) + prior month Column (g); provision not included in calculation
(h) For months of January - June, 5% annual migration assumed x 25%; For months of July - December, 5% annual migration assumed x 75%
(i) 5% annual migration assumption / 12 months
(j) For months of January - June, 5% annual migration assumed x 25%; For months of July - December, 5% annual migration assumed x 75%
(k) Column (g) x Column (h)
(l) Column (g) x Column (i)
(m) Column (g) x Column (j)

TABLE 2. Illustrative SOS Migration Billing Adjustment Calculation, Rate A-60

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage A-60 Rate (c)	Amount Billed (d)	Actual Cost (e)	Monthly Difference (f)	Billing Adjustment (estimate per customer) (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Even Distribution (l)	Cumulative Billing Adjustment Estimate Early Year Migration (m)
Jan-2015	\$0.09922	\$0.18345	663	\$65.78	\$121.63	\$55.84	\$55.84	86	172	258	\$4,802.63	\$9,605.25	\$14,407.88
Feb-2015	\$0.09922	\$0.17444	672	\$66.68	\$117.22	\$50.55	\$106.39	86	172	258	\$9,149.74	\$18,299.48	\$27,449.22
Mar-2015	\$0.09922	\$0.10410	603	\$59.83	\$62.77	\$2.94	\$109.39	86	172	258	\$9,403.81	\$18,805.61	\$27,908.42
Apr-2015	\$0.09922	\$0.07743	507	\$50.30	\$39.26	(\$11.05)	\$98.29	86	172	258	\$8,452.72	\$16,905.44	\$25,358.16
May-2015	\$0.09922	\$0.06598	455	\$45.15	\$30.02	(\$15.12)	\$83.16	86	172	258	\$7,152.04	\$14,304.08	\$21,456.12
Jun-2015	\$0.09922	\$0.07438	411	\$40.78	\$30.57	(\$10.21)	\$72.95	86	172	258	\$6,274.04	\$12,548.07	\$18,822.13
Jul-2015	\$0.09922	\$0.07477	545	\$54.07	\$40.75	(\$13.33)	\$59.63	258	172	86	\$15,394.22	\$12,548.07	\$5,846.15
Aug-2015	\$0.09922	\$0.07265	581	\$57.65	\$42.21	(\$15.44)	\$44.19	258	172	86	\$11,401.43	\$7,600.95	\$3,800.48
Sep-2015	\$0.09922	\$0.06415	539	\$53.48	\$34.58	(\$18.90)	\$25.29	258	172	86	\$6,524.52	\$4,349.68	\$2,174.84
Oct-2015	\$0.09922	\$0.06554	426	\$42.27	\$27.92	(\$14.35)	\$10.94	258	172	86	\$2,822.82	\$1,881.88	\$940.94
Nov-2015	\$0.09922	\$0.08237	441	\$43.76	\$36.33	(\$7.43)	\$3.51	258	172	86	\$905.66	\$603.78	\$301.89
Dec-2015	\$0.09922	\$0.12995	543	\$53.88	\$70.56	n/a	n/a	258	172	86	\$0.00	\$0.00	\$0.00
Totals								2,064	2,064	2,064	\$82,272.63	\$115,160.39	\$148,048.15

(a) Approved 12-month SOS Residential Base charge
(b) Docket No. 4393, Attachment 1, page 3 for January through June; July through Dec estimated per RIPIUC Docket 4393, Attachment COMM 3-1
(c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
(d) Column (b) x Column (c)
(e) Column (b) x Column (c)
(f) Column (e) - Column (d)
(g) Column (f) + prior month Column (g); provision not included in calculation
(h) For months of January - June, 5% annual migration assumed x 25%; For months of July - December, 5% annual migration assumed x 75%
(i) 5% annual migration assumption / 12 months
(j) For months of January - June, 5% annual migration assumed x 25%; For months of July - December, 5% annual migration assumed x 75%
(k) Column (g) x Column (h)
(l) Column (g) x Column (i)
(m) Column (g) x Column (j)

TABLE 3. Illustrative SOS Migration Billing Adjustment Calculation, Rate C-06.

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage C-06 Rate (c)	Amount Billed (d)	Actual Cost (10% deferred) (e)	Monthly Difference (f)	Billing Adjustment (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Early Year Migration (l)
Jan-2015	\$0.1127	\$0.17834	1,002	\$111.49	\$178.70	\$67.20	\$67.20	258	515	773	\$17,305.07	\$34,610.13
Feb-2015	\$0.1127	\$0.17349	1,039	\$115.61	\$180.26	\$64.65	\$131.85	258	515	773	\$33,951.56	\$67,903.12
Mar-2015	\$0.1127	\$0.10701	886	\$98.59	\$94.81	(\$3.77)	\$128.08	258	515	773	\$65,959.33	\$98,938.99
Apr-2015	\$0.1127	\$0.06278	789	\$87.29	\$53.48	(\$34.31)	\$93.76	773	258	258	\$72,431.72	\$48,287.82
May-2015	\$0.1127	\$0.05608	758	\$84.34	\$42.51	(\$41.83)	\$51.93	773	515	258	\$40,114.94	\$26,745.30
Jun-2015	\$0.1127	\$0.00867	745	\$82.90	\$51.16	(\$31.74)	\$20.19	773	515	258	\$15,598.11	\$10,398.74
Totals								3,090	3,090	3,090	\$212,381.07	\$295,423.79

(a) Approved 6-month SOS Commercial Base charge
 (b) Commercial SOS Variable rates as per RIFUC 2006
 (c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
 (d) Column (a) x Column (c)
 (e) Column (b) x Column (c)
 (f) Column (e) - Column (d)
 (g) Column (f) + prior month Column (g); proration not included in calculation
 (h) For months of January - March, 7.5% 6-month migration assumed x 25%; For months of April - June, 7.5% 6-month migration assumed x 75%
 (i) 7.5% 6-month migration assumption / 6
 (j) For months of January - March, 7.5% 6-month migration assumed x 75%; For months of April - June, 7.5% 6-month migration assumed x 25%
 (k) Column (g) x Column (h)
 (l) Column (i) x Column (j)
 (m) Column (k) x Column (l)

TABLE 4. Illustrative SOS Migration Billing Adjustment Calculation, Rate G-02.

Month	SOS Fixed Charge (a)	SOS Variable Charge (b)	Average kWh Usage G-02 Rate (c)	Amount Billed (d)	Actual Cost (10% deferred) (e)	Monthly Difference (f)	Billing Adjustment (g)	Estimated Number of Migrated Customers Late Year Migration (h)	Estimated Number of Migrated Customers Even Distribution (i)	Estimated Number of Migrated Customers Early Year Migration (j)	Cumulative Billing Adjustment Estimate Late Year Migration (k)	Cumulative Billing Adjustment Estimate Early Year Migration (l)
Jan-2015	\$0.1127	\$0.17834	11,281	\$1,255.24	\$2,011.85	\$756.62	\$756.62	1	1	2	\$504.41	\$1,008.82
Feb-2015	\$0.1127	\$0.17349	10,615	\$1,811.13	\$1,841.60	\$660.47	\$1,417.08	1	1	2	\$944.72	\$1,889.44
Mar-2015	\$0.1127	\$0.10701	7,308	\$813.16	\$782.03	(\$31.13)	\$1,385.95	1	1	2	\$923.97	\$1,847.93
Apr-2015	\$0.1127	\$0.06278	7,102	\$790.24	\$481.37	(\$308.87)	\$1,077.08	2	1	1	\$2,154.17	\$1,436.11
May-2015	\$0.1127	\$0.05608	7,116	\$791.80	\$399.07	(\$392.73)	\$684.35	2	1	1	\$1,368.70	\$912.47
Jun-2015	\$0.1127	\$0.00867	7,202	\$801.37	\$494.56	(\$306.81)	\$377.55	2	1	1	\$755.09	\$503.40
Totals								8	8	8	\$6,651.06	\$7,598.17

(a) Approved 6-month SOS Commercial Base charge
 (b) Commercial SOS Variable rates as per RIFUC 2006
 (c) Calculated per monthly reports - total SOS kWh usage per rate class/total SOS customer count in rate class
 (d) Column (a) x Column (c)
 (e) Column (b) x Column (c)
 (f) Column (e) - Column (d)
 (g) Column (f) + prior month Column (g); proration not included in calculation
 (h) For months of January - March, 7.5% 6-month migration assumed x 25%; For months of April - June, 7.5% 6-month migration assumed x 75%
 (i) 7.5% 6-month migration assumption / 6
 (j) For months of January - March, 7.5% 6-month migration assumed x 75%; For months of April - June, 7.5% 6-month migration assumed x 25%
 (k) Column (g) x Column (h)
 (l) Column (i) x Column (j)
 (m) Column (k) x Column (l)