

March 2, 2018

BY HAND DELIVERY AND ELECTRONIC MAIL

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

**RE: Docket 4783 - Proposed FY 2019 Electric Infrastructure, Safety, Reliability Plan
Responses to PUC Data Requests – Set 3**

Dear Ms. Massaro:

On behalf of National Grid,¹ I have enclosed ten (10) copies of the Company's responses to PUC Data Requests 3-2 and 3-3.

This transmittal completes the Company's responses to the PUC's Third Set of Data Requests in the above-referenced docket.

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

Very truly yours,



Raquel J. Webster

Enclosures

cc: Docket 4783 Service List
Greg Booth, Division
Leo Wold, Esq.
Al Contente, Division

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

PUC 3-2

Request:

Please update the revised FY 2019 revenue requirement provided in DIV 2-1 assuming the reduction in FY 2018 revenue requirement of \$1,261,891 is used to offset the proposed FY 2019 increase in revenue requirement of \$5,219,225. Please also provide updated factors and bill impacts.

Response:

The Company believes it is appropriate to include the impact on the FY 2018 revenue requirement resulting from the decrease in the corporate federal income tax rate to 21 percent effective January 1, 2018 in its FY 2018 ISR Plan Reconciliation filing, which the Company will file with the PUC by August 1, 2018, rather than as an adjustment to the amount recovered as part of the FY 2019 ISR Plan.

The FY 2018 revenue requirement will change for a variety of reasons, with only one small change, as discussed below, resulting from the change in the corporate federal income tax rate that would be applicable to only three months of the annual revenue requirement. The amount ultimately recoverable for FY 2018 will change as a result of (i) actual FY 2017 capital investment that has yet to be reflected in the FY 2018 revenue requirement; (ii) actual FY 2018 capital investment; (iii) actual eligible property taxes for FY 2017 and FY 2018; (iv) actual O&M expense for vegetation management activities and the Inspection and Maintenance program; (v) the change in the corporate federal income tax rate effective January 1, 2018; and (vi) updates for income tax assumptions applicable to FY 2017 plant investment as a result of the Company filing its income tax return in December 2017. When the Company prepares the revenue requirement for the ISR Plan reconciliation, all of these factors are used to calculate an updated revenue requirement, with the change in the corporate federal income tax rate being only one of the inputs into the calculation.

Providing customers with portion of the change to the FY 2018 revenue requirement as part of the amount the Company is authorized to recover during FY 2019 as part of the FY 2019 revenue requirement will introduce a level of complexity as the Company prepares its FY 2018 ISR Plan Reconciliation Filing. The Company will need to make adjustments in that filing to ensure that it is not passing back to customers the benefit of the decrease in the corporate federal income tax rate to customers through the results of the reconciliation, as customers would already be receiving a benefit through the ISR factors that would go into effect April 1, 2019.

PUC 3-2, page 2

This would result in a typically straight-forward calculation of the revenue requirement to become a considerably more complicated calculation. The reconciliation filing is the means by which changes to the revenue requirement, for any reason, are captured and reflected in the ISR adjustment factors that become effective annually on October 1.

As mentioned above, the reduction in the revenue requirement from the tax law change is much smaller than originally reflected in the Company's response to Information Request Division 2-1. The reduction in the revenue requirement from the tax law change is \$95,684 as provided on Attachment PUC 3-2-1, Page 1, Line 19, Column (c), and not the \$1,261,891 as provided in Attachment DIV 2-1-1 of Information Request Division 2-1. The \$1,261,891 reduction in the revenue requirement for FY 2018 was derived from the FY 2018 column of the FY 2019 Electric ISR Plan revenue requirement calculation. However the Company should have calculated the FY 2018 reduction for the tax law change by updating the actual FY 2018 Electric ISR Plan. The FY 2018 Electric ISR Plan was prepared and approved prior to the end of the Company's 2017 fiscal year-end of March 31, 2017, whereas the FY 2019 Electric ISR Plan has been updated to reflect actual FY 2017 Electric ISR capital investment that was not available for the FY 2018 Electric ISR Plan. In addition, the FY 2019 Electric ISR Plan reflects certain updates to tax depreciation assumptions related to FY 2016 vintage year capital investment that was also not available for the FY 2018 Electric ISR Plan.

The difference between the \$1,261,891 and the correct reduction in the revenue requirement due to the tax law change of \$95,684 equals \$1,166,207. This difference will be captured as part of the normal process of reconciling the FY 2018 Electric ISR Plan revenue requirement to the actual FY 2018 Electric ISR Plan Reconciliation revenue requirement, which the Company will file with the PUC by August 1, 2018 after the completion of FY 2018. Also for the reasons stated above, the Company believes that it is more appropriate to include the reduction in the revenue requirement due to the tax law change to also be included in the FY 2018 reconciliation filing rather than as part of the FY 2017 Electric ISR Plan factors.

The Company is also providing in Attachment PUC 3-2-2, the adjusted FY 2019 amount to be recovered through the ISR factors as adjusted by the impact of the lower federal income tax rate on the FY 2018 revenue requirement that is calculated in Attachment PUC 3-2-1. In addition, Attachment PUC 3-2-3 and Attachment PUC 3-2-4 present the ISR factors and bill impacts, respectively, based upon the updated amount of recovery during FY 2019 presented in Attachment PUC 3-2-2.

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Annual Revenue Requirement Summary

Line No.		Updated for Tax Act Changes	Approved	Change
		Fiscal Year <u>2018</u> (a)	Fiscal Year <u>2018</u> (b)	
	<u>Operation and Maintenance (O&M) Expenses:</u>			
1	Current Year Vegetation Management (VM)	\$9,400,000	\$9,400,000	
2	Current Year Inspection & Maintenance (I&M)	\$1,069,800	\$1,069,800	
3	Electric Contact Voltage expenses included in RIPUC Docket No. 4323	(\$163,749)	(\$163,749)	
4	Total O&M Expense Component of Revenue Requirement	<u>\$10,306,051</u>	<u>\$10,306,051</u>	
	<u>Capital Investment:</u>			
5	Actual Revenue Requirement on Incremental FY 2012 Capital included in ISR Rate Base	\$258,746	\$268,500	(\$9,754)
6	Actual Revenue Requirement on Incremental FY 2013 Capital included in ISR Rate Base	(\$1,063,819)	(\$1,074,896)	\$11,077
7	Actual Revenue Requirement on Incremental FY 2014 Capital included in ISR Rate Base	\$702,125	\$706,927	(\$4,803)
8	Actual Revenue Requirement on FY 2015 Capital included in ISR Rate Base	\$3,702,462	\$3,758,934	(\$56,473)
9	Actual Revenue Requirement on FY 2016 Capital included in ISR Rate Base	\$3,886,106	\$3,967,711	(\$81,605)
10	Forecasted Annual Revenue Requirement on FY 2017 Capital included in ISR Rate Base	\$4,339,758	\$4,415,399	(\$75,641)
11	Forecasted Annual Revenue Requirement on FY 2018 Capital included in ISR Rate Base	\$2,389,169	\$2,267,653	\$121,516
12	Subtotal	\$14,214,546	\$14,310,230	(\$95,684)
13	FY 2017 Property Tax Recovery Adjustment			
14	FY 2018 Property Tax Recovery Adjustment	\$3,906,950	\$3,906,950	
15	True-Up for FY 2012 through FY 2016 Transmission - Related Net Operating Losses ("NOL")	(\$1,125,115)	(\$1,125,115)	
16	True-Up for FY 2013 through FY 2016 Work Order Write Off Adjustment: Capital Investment	(\$560,347)	(\$560,347)	
17	True-Up for FY 2013 through FY 2016 Work Order Write Off Adjustment: Property Tax	(\$589)	(\$589)	
18	Total Capital Investment Component of Revenue Requirement	<u>\$16,435,445</u>	<u>\$16,531,128</u>	<u>(\$95,684)</u>
19	Total Fiscal Year Revenue Requirement	<u>\$26,741,496</u>	<u>\$26,837,179</u>	<u>(\$95,684)</u>

Column (a) - as Approved per RIPUC Docket No. 4539

Column (b)

- 1 Vegetation Management per Section 3, Page 5 of 5, Chart 2
- 2 Inspection & Maintenance per Section 4, Page 3 of 3, Chart 1
- 4 Line 1 + Line 2 + Line 3
- 5 Page 14 of 28, Line 31
- 6 Page 12 of 28, Line 33
- 7 Page 10 of 28, Line 33
- 8 Page 8 of 28, Line 33
- 9 Page 6 of 28, Line 33
- 10 Page 4 of 28, Line 32
- 11 Page 2 of 28, Line 33
- 12 Sum of Lines 5 through 11
- 14 Page 19 of 28, Line 97
- 15 Page 23 of 28, Line 12
- 16 Page 24 of 28, Line 10
- 17 Page 18 of 28, Line 62b
- 18 Sum of Lines 12 through 17
- 19 Sum of Lines 4 + 18

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2018 Revenue Requirement on FY 2018 Actual Incremental Capital Investment

Line No.			Fiscal Year 2018 (a)	Fiscal Year 2019 (b)
<u>Capital Investment Allowance</u>				
1	Non-Discretionary Capital	Section 2, Page 27 of 27, Chart 11	\$32,731,000	\$0
<i>Discretionary Capital</i>				
2	Lesser of Actual Cumulative Non-Discretionary Capital Additions or Spending, or Approved Spending	Section 2, Page 27 of 27, Chart 11	\$42,112,000	\$0
3	Total Allowed Capital Included in Rate Base	Line 1 + Line 2	\$74,843,000	\$0
<u>Depreciable Net Capital Included in Rate Base</u>				
4	Total Allowed Capital Included in Rate Base in Current Year	Line 3	\$74,843,000	\$0
5	Retirements	Line 4 * 21.99%	\$16,457,400	\$0
6	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$58,385,600	\$58,385,600
<u>Change in Net Capital Included in Rate Base</u>				
7	Capital Included in Rate Base	Line 3	\$74,843,000	\$0
8	Depreciation Expense	Per Settlement Agreement Docket No. 4323, excluding General Plant	\$43,031,774	\$0
9	Incremental Capital Amount	Column (a) = Line 7 - Line 8; Column (b) = Prior Year Line 9	\$31,811,226	\$31,811,226
10	Cost of Removal	Section 2, Page 27 of 27, Chart 11	\$9,646,000	\$9,646,000
11	Total Net Plant in Service	Line 9 + Line 10	\$41,457,226	\$41,457,226
<u>Deferred Tax Calculation:</u>				
12	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4323	3.40%	3.40%
13	Vintage Year Tax Depreciation:			
14	2018 Spend	Page 3 of 28, Line 21	\$44,716,241	\$3,115,135
15	Cumulative Tax Depreciation	Prior Year Line 15 + Current Year Line 14	\$44,716,241	\$47,831,376
16	Book Depreciation	Column (a) = Line 6 * Line 12 * 50% ; Column (b) = Line 6 * Line 12	\$992,555	\$1,985,110
17	Cumulative Book Depreciation	Prior Year Line 17 + Current Year Line 16	\$992,555	\$2,977,666
18	Cumulative Book / Tax Timer	Line 15 - Line 17	\$43,723,686	\$44,853,710
19	Effective Tax Rate		21.00%	21.00%
20	Deferred Tax Reserve	Line 18 * Line 19	\$9,181,974	\$9,419,279
21	Less: FY 2018 Federal NOL	Page 21 of 28, Line 12(n)	\$0	\$0
22	Less: Proration Adjustment	Col (a) = Page 25 of 28, Line 40; Col (b) = Page 26 of 28, Line 40	(\$3,150,463)	(\$214,730)
23	Excess Deferred Tax	Page 27 of 28	\$4,590,987	\$4,590,987
24	Net Deferred Tax Reserve	Sum of Lines 20 through 22	\$10,622,498	\$13,795,536
<u>Rate Base Calculation:</u>				
25	Cumulative Incremental Capital Included in Rate Base	Line 11	\$41,457,226	\$41,457,226
26	Accumulated Depreciation	-Line 17	(\$992,555)	(\$2,977,666)
27	Deferred Tax Reserve	-Line 24	(\$10,622,498)	(\$13,795,536)
28	Year End Rate Base	Sum of Lines 25 through 27	\$29,842,173	\$24,684,025
<u>Revenue Requirement Calculation:</u>				
29	Average Rate Base	Column (a) = Current Year Line 27 ÷ 2; Column (b) = (Prior Year Line 27 + Current Year Line 27) ÷ 2	\$14,921,086	\$27,263,099
30	Pre-Tax ROR	Page 28 of 28	9.36%	8.41%
31	Return and Taxes	Line 29 * Line 30	\$1,396,614	\$2,292,827
32	Book Depreciation	Line 16	\$992,555	\$1,985,110
33	Annual Revenue Requirement	Line 31 + Line 32	\$2,389,169	\$4,277,937
1/	Based on three year average FY 2016, FY 2015, and FY 2014 actual retirements as a percent of capital investments			

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of Tax Depreciation and Repairs Deduction on FY2018 Incremental Capital Investments

Line No.			Fiscal Year 2018 (a)	Fiscal Year 2019 (b)
	<u>Capital Repairs Deduction</u>			
1	Plant Additions	Page 2 of 28, Line 3	\$74,843,000	
2	Capital Repairs Deduction Rate	Per Tax Department	1/ 23.38%	
3	Capital Repairs Deduction	Line 1 * Line 2	\$17,498,293	
	<u>Bonus Depreciation</u>			
4	Plant Additions	Line 1	\$74,843,000	
5	Less Capital Repairs Deduction	Line 3	\$17,498,293	
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$57,344,707	
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	99.00%	
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$56,771,260	
9	Bonus Depreciation Rate (April 2017 - September 2017)	1 * 50% * 50%	25.00%	
10	Bonus Depreciation Rate (January 2018 - March 2018)	1 * 25% * 0%	0.00%	
11	Total Bonus Depreciation Rate	Line 9 + Line 10	25.00%	
12	Bonus Depreciation	Line 8 * Line 11	\$14,192,815	
	<u>Remaining Tax Depreciation</u>			
13	Plant Additions	Line 1	\$74,843,000	
14	Less Capital Repairs Deduction	Line 3	\$17,498,293	
15	Less Bonus Depreciation	Line 12	\$14,192,815	
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$43,151,892	\$43,151,892
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	7.219%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$1,618,196	\$3,115,135
19	FY18 Loss incurred due to retirements	Per Tax Department	2/ \$1,760,937	
20	Cost of Removal	Page 2 of 28, Line 10	\$9,646,000	
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20	\$44,716,241	\$3,115,135

1/ Capital Repairs percentage is based on a three year average 2013, 2014, and 2015 of electric property qualifying for the repairs deduction as a percentage of total annual plant additions.

2/ FY 2018 estimated tax loss on retirements is based on FY 2016 actuals (Page 7 of 28, Line 19).

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2018 Revenue Requirement on FY 2017 Actual Incremental Capital Investment

Line No.			Fiscal Year <u>2017</u> (a)	Fiscal Year <u>2018</u> (b)	Fiscal Year <u>2019</u> (c)
	<u>Capital Additions Allowance</u>				
1	<i>Non-Discretionary Capital</i> Non-Discretionary Additions	Per RIPUC Docket No. 4592	\$31,396,000	\$0	\$0
2	<i>Discretionary Capital</i> Lesser of Actual Cumulative Discretionary Capital Additions or Spending, or Approved Spending	Per RIPUC Docket No. 4592	\$47,082,000	\$0	\$0
3	Total Allowed Capital Included in Rate Base	Line 1 + Line 2	\$78,478,000	\$0	\$0
	<u>Depreciable Net Capital Included in Rate Base</u>				
4	Total Allowed Capital Included in Rate Base in Current Year	Line 3	\$78,478,000	\$0	\$0
5	Retirements	Line 4 * 20.44%	\$16,040,903	\$0	\$0
6	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$62,437,097	\$62,437,097	\$62,437,097
	<u>Change in Net Capital Included in Rate Base</u>				
7	Capital Included in Rate Base	Line 3	\$78,478,000	\$0	\$0
8	Depreciation Expense	Per Settlement Agreement Docket No. 4323, excluding General Plant	\$43,031,774	\$0	\$0
9	Incremental Depreciable Amount	Column (a) = Line 7 - Line 8; Column (b) = Prior Year Line 9	\$35,446,226	\$35,446,226	\$35,446,226
10	Total Cost of Removal	Per Company's books	\$9,800,000	\$9,800,000	\$9,800,000
11	Total Net Plant in Service	Line 9 + Line 10	\$45,246,226	\$45,246,226	\$45,246,226
	<u>Deferred Tax Calculation:</u>				
12	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4323	3.40%	3.40%	3.40%
13	Tax Depreciation	Page 5 of 28, Line 21	\$60,552,688	\$2,211,545	\$2,045,503
14	Cumulative Tax Depreciation	Prior Year Line 14 + Current Year Line 13	\$60,552,688	\$62,764,233	\$64,809,736
15	Book Depreciation	Column (a) = Line 6 * Line 12 * 50%; Column (b) = Line 6 * Line 12	\$1,061,431	\$2,122,861	\$2,122,861
16	Cumulative Book Depreciation	Prior Year Line 16 + Current Year Line 15	\$1,061,431	\$3,184,292	\$5,307,153
17	Cumulative Book / Tax Timer	Line 14 - Line 16	\$59,491,257	\$59,579,941	\$59,502,583
18	Effective Tax Rate		35.00%	21.00%	21.000%
19	Deferred Tax Reserve	Line 17 * Line 18	\$20,821,940	\$12,511,788	\$12,495,542
20	Less: FY 2017 Federal NOL	Page 21 of 28, Line 12(m)	(\$1,388,912)	(\$1,388,912)	(\$1,388,912)
21	Less: Proration Adjustment	Col (b) = Page 25 of 28, Line 40; Col (c) = Page 26 of 28, Line 40	\$0	(\$16,852)	\$14,700
22	Excess Deferred Tax	Page 27 of 28	\$0	\$8,338,088	\$8,338,088
23	Net Deferred Tax Reserve	Sum of Lines 19 through 21	\$19,433,028	\$19,444,111	\$19,459,418
	<u>Rate Base Calculation:</u>				
24	Cumulative Incremental Capital Included in Rate Base	Line 11	\$45,246,226	\$45,246,226	\$45,246,226
25	Accumulated Depreciation	-Line 16	(\$1,061,431)	(\$3,184,292)	(\$5,307,153)
26	Deferred Tax Reserve	-Line 23	(\$19,433,028)	(\$19,444,111)	(\$19,459,418)
27	Year End Rate Base	Sum of Lines 24 through 26	\$24,751,768	\$22,617,823	\$20,479,655
	<u>Revenue Requirement Calculation:</u>				
28	Average Rate Base	Column (a) = Current Year Line 27 ÷ 2; Column (b) = (Prior Year Line 27 + Current Year Line 27) ÷ 2	\$12,375,884	\$23,684,796	\$21,548,739
29	Pre-Tax ROR	Page 28 of 28	9.68%	9.36%	8.41%
30	Return and Taxes	Line 28 * Line 29	\$1,197,986	\$2,216,897	\$1,812,249
31	Book Depreciation	Line 15	\$1,061,431	\$2,122,861	\$2,122,861
32	Annual Revenue Requirement	Line 30 + Line 31	\$2,259,417	\$4,339,758	\$3,935,110

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of Tax Depreciation and Repairs Deduction on FY2017 Incremental Capital Investments

Line No.			Fiscal Year	Fiscal Year	Fiscal Year
			<u>2017</u> (a)	<u>2018</u> (b)	<u>2019</u> (c)
	<u>Capital Repairs Deduction</u>				
1	Plant Additions	Page 4 of 28, Line 3	\$78,478,000		
2	Capital Repairs Deduction Rate	Per Tax Department 1/	22.70%		
3	Capital Repairs Deduction	Line 1 * Line 2	\$17,814,506		
	<u>Bonus Depreciation</u>				
4	Plant Additions	Line 1	\$78,478,000		
5	Less Capital Repairs Deduction	Line 3	\$17,814,506		
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$60,663,494		
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	99.00%		
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$60,056,859		
9	Bonus Depreciation Rate (April 2016 - December 2016)	1 * 75% * 50%	37.50%		
10	Bonus Depreciation Rate (January 2017 - March 2017)	1 * 25% * 50%	12.50%		
11	Total Bonus Depreciation Rate	Line 9 + Line 10	50.00%		
12	Bonus Depreciation	Line 8 * Line 11	\$30,028,430		
	<u>Remaining Tax Depreciation</u>				
13	Plant Additions	Line 1	\$78,478,000		
14	Less Capital Repairs Deductions	Line 3	\$17,814,506		
15	Less Bonus Depreciation	Line 12	\$30,028,430		
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$30,635,064	\$30,635,064	\$30,635,064
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	7.219%	6.677%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$1,148,815	\$2,211,545	\$2,045,503
19	FY17 Loss incurred due to retirements	Per Tax Department 2/	\$1,760,937		
20	Cost of Removal	Page 4 of 28, Line 10	\$9,800,000		
		Sum of Lines 3, 12, 18, 19, and 20			
21	Total Tax Depreciation and Repairs Deduction		\$60,552,688	\$2,211,545	\$2,045,503

1/ Capital Repairs percentage is based on a three year average, 2012, 2013 and 2014 of electric property qualifying for the repairs deduction as a percentage of total annual plant additions.

2/ FY 2017 estimated tax loss on retirements is based on FY 2016 actuals (Page 7 of 28, Line 19).

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2018 Revenue Requirement on FY 2016 Actual Incremental Capital Investment

Line No.			Fiscal Year 2016 (a)	Fiscal Year 2017 (b)	Fiscal Year 2018 (c)	Fiscal Year 2019 (d)
<u>Capital Investment Allowance</u>						
1	Non-Discretionary Capital	Per RIPUC Docket No. 4539	\$35,964,438	\$0	\$0	\$0
1a	Work Order Write Off Adjustment	Per Company's books	\$672,272	\$0	\$0	\$0
<u>Discretionary Capital</u>						
2	Lesser of Actual Cumulative Non-Discretionary Capital Additions or Spending, or Approved Spending	Per RIPUC Docket No. 4539	\$35,488,464	\$0	\$0	\$0
2a	Work Order Write Off Adjustment	Per Company's books	(\$121,728)	\$0	\$0	\$0
3	Total Allowed Capital Included in Rate Base	Line 1 + Line 1a + Line 2 + Line 2a	\$72,003,445	\$0	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>						
4	Total Allowed Capital Included in Rate Base in Current Year	Line 3	\$72,003,445	\$0	\$0	\$0
5	Retirements		1/ \$28,489,814	\$0	\$0	\$0
6	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$43,513,631	\$43,513,631	\$43,513,631	\$43,513,631
<u>Change in Net Capital Included in Rate Base</u>						
7	Capital Included in Rate Base	Line 3	\$72,003,445	\$0	\$0	\$0
8	Depreciation Expense	Per Settlement Agreement Docket No. 4323, excluding General Plant	\$43,031,774	\$0	\$0	\$0
9	Incremental Capital Amount	Column (a) = Line 7 - Line 8; Column (b) = Prior Year Line 9	\$28,971,671	\$28,971,671	\$28,971,671	\$28,971,671
10	Cost of Removal		2/ \$8,192,983	\$8,192,983	\$8,192,983	\$8,192,983
10a	Work Order Write Off Adjustment	Per Company's books	(\$19,884)	(\$19,884)	(\$19,884)	(\$19,884)
11	Total Net Plant in Service	Line 9 + Line 10 + Line 10a	\$37,144,770	\$37,144,770	\$37,144,770	\$37,144,770
<u>Deferred Tax Calculation:</u>						
12	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4323	3.40%	3.40%	3.40%	3.40%
13	Vintage Year Tax Depreciation:					
14	2016 Spend	Page 7 of 28, Line 21	\$54,883,892	\$2,029,089	\$1,876,746	\$1,736,208
15	Cumulative Tax Depreciation	Prior Year Line 15 + Current Year Line 14	\$54,883,892	\$56,912,981	\$58,789,727	\$60,525,935
16	Book Depreciation	Column (a) = Line 6 * Line 12 * 50%; Column (b) = Line 6 * Line 12	\$739,732	\$1,479,463	\$1,479,463	\$1,479,463
17	Cumulative Book Depreciation	Prior Year Line 17 + Current Year Line 16	\$739,732	\$2,219,195	\$3,698,659	\$5,178,122
18	Cumulative Book / Tax Timer	Line 15 - Line 17	\$54,144,160	\$54,693,786	\$55,091,068	\$55,347,813
19	Effective Tax Rate		35.00%	35.00%	21.00%	21.00%
20	Deferred Tax Reserve	Line 18 * Line 19	\$18,950,456	\$19,142,825	\$11,569,124	\$11,623,041
21	Less: FY 2016 Federal NOL	Page 21 of 28, Line 12(l)	(\$10,693,796)	(\$10,693,796)	(\$10,693,796)	(\$10,693,796)
22	Less: Proration Adjustment	Col = Page 25 of 28, Line 40; Col = Page 26 of 28, Line 40	\$0	\$0	(\$75,493)	(\$48,787)
23	Excess Deferred Tax	Page 27 of 28	\$0	\$0	\$7,698,845	\$7,698,845
24	Net Deferred Tax Reserve	Sum of Lines 20 through 22	\$8,256,660	\$8,449,029	\$8,498,680	\$8,579,302
<u>Rate Base Calculation:</u>						
25	Cumulative Incremental Capital Included in Rate Base	Line 11	\$37,144,770	\$37,144,770	\$37,144,770	\$37,144,770
26	Accumulated Depreciation	-Line 17	(\$739,732)	(\$2,219,195)	(\$3,698,659)	(\$5,178,122)
27	Deferred Tax Reserve	-Line 24	(\$8,256,660)	(\$8,449,029)	(\$8,498,680)	(\$8,579,302)
28	Year End Rate Base	Sum of Lines 25 through 27	\$28,148,378	\$26,476,546	\$24,947,431	\$23,387,346
<u>Revenue Requirement Calculation:</u>						
29	Average Rate Base	Column (a) = Current Year Line 27 ÷ 2; Column (b) = (Prior Year Line 27 + Current Year Line 27) ÷ 2	\$14,074,189	\$27,312,462	\$25,711,989	\$24,167,389
30	Pre-Tax ROR	Page 28 of 28	9.68%	9.68%	9.36%	8.41%
31	Return and Taxes	Line 29 * Line 30	\$1,362,382	\$2,643,846	\$2,406,642	\$2,032,477
32	Book Depreciation	Line 16	\$739,732	\$1,479,463	\$1,479,463	\$1,479,463
33	Annual Revenue Requirement	Line 31 + Line 32	\$2,102,113	\$4,123,310	\$3,886,106	\$3,511,941
34	As Approved in RIPUC Docket No. 4539		\$2,048,986	\$4,017,908	\$3,864,033	\$3,713,798
35	Transmission-related NOL adjustment		(\$169,161)	(\$338,321)	(\$338,321)	(\$338,321)
35a	True-Up to reflect actual NOL deferred taxes generated for FY 2016		\$193,024	\$386,048	\$386,048	\$386,048
36	Work Order Write Off Adjustment		\$29,263	\$57,675	\$55,951	\$54,256

1/ Actual Retirements

2/ Actual Cost of Removal

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of Tax Depreciation and Repairs Deduction on FY2016 Incremental Capital Investments

Line No.			Fiscal Year <u>2016</u> (a)	Fiscal Year <u>2017</u> (a)	Fiscal Year <u>2018</u> (a)	Fiscal Year <u>2019</u> (a)
	<u>Capital Repairs Deduction</u>					
1	Plant Additions	Page 6 of 28, Line 3	\$72,003,445			
2	Capital Repairs Deduction Rate	Per Tax Department	1/ 22.70%			
3	Capital Repairs Deduction	Line 1 * Line 2	\$16,344,782			
	<u>Bonus Depreciation</u>					
4	Plant Additions	Line 1	\$72,003,445			
5	Less Capital Repairs Deduction	Line 3	\$16,344,782			
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$55,658,663			
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	99.00%			
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$55,102,076			
9	Bonus Depreciation Rate (April 2015 - December 2015)	1 * 75% * 50%	37.50%			
10	Bonus Depreciation Rate (January 2016 - March 2016)	1 * 25% * 50%	12.50%			
11	Total Bonus Depreciation Rate	Line 9 + Line 10	50.00%			
12	Bonus Depreciation	Line 8 * Line 11	\$27,551,038			
	<u>Remaining Tax Depreciation</u>					
13	Plant Additions	Line 1	\$72,003,445			
14	Less Capital Repairs Deduction	Line 3	\$16,344,782			
15	Less Bonus Depreciation	Line 12	\$27,551,038			
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$28,107,625	\$28,107,625	\$28,107,625	\$28,107,625
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	7.219%	6.677%	6.177%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$1,054,036	\$2,029,089	\$1,876,746	\$1,736,208
19	FY16 Loss incurred due to retirements	Per Tax Department	\$1,760,937			
20	Cost of Removal	Page 6 of 28, Line 10 + Line 10a	\$8,173,099			
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20	\$54,883,892	\$2,029,089	\$1,876,746	\$1,736,208

1/ Capital Repairs percentage is based on a three year average 2012, 2013, and 2014 of electric property qualifying for the repairs deduction as a percentage of total annual plant additions.

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2018 Revenue Requirement on FY 2015 Actual Incremental Capital Investment

Line No.			Fiscal Year 2015 (a)	Fiscal Year 2016 (b)	Fiscal Year 2017 (c)	Fiscal Year 2018 (d)	Fiscal Year 2019 (e)
<u>Capital Investment Allowance</u>							
1	Non-Discretionary Capital	Per RIPUC Docket No. 4473	\$22,246,664	\$0	\$0	\$0	\$0
1a	Work Order Write Off Adjustment	Per Company's books	\$ (268,138)				
<u>Discretionary Capital</u>							
2	Lesser of Actual Cumulative Non-Discretionary Capital Additions or Spending, or Approved Spending	Per RIPUC Docket No. 4473	\$54,410,377	\$0	\$0	\$0	\$0
2a	Work Order Write Off Adjustment	Per Company's books	\$ (48,499)				
3	Total Allowed Capital Included in Rate Base	Line 1 + Line 1a + Line 2 + Line 2a	\$76,340,403	\$0	\$0	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>							
4	Total Allowed Capital Included in Rate Base in Current Year	Line 3	\$76,340,403	\$0	\$0	\$0	\$0
5	Retirements		1/ \$15,666,095	\$0	\$0	\$0	\$0
6	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$60,674,308	\$60,674,308	60,674,308	60,674,308	60,674,308
<u>Change in Net Capital Included in Rate Base</u>							
7	Capital Included in Rate Base	Line 3	\$76,340,403	\$0	\$0	\$0	\$0
8	Depreciation Expense	Per Settlement Agreement Docket No. 4323, excluding General Plant	\$43,031,774	\$0	\$0	\$0	\$0
9	Incremental Capital Amount	Column (a) = Line 7 - Line 8; Column (b) = Prior Year Line 9	\$33,308,629	\$33,308,629	\$33,308,629	\$33,308,629	\$33,308,629
10	Cost of Removal	Docket No. 4473 FY15 Reconciliation, Att. JHP-1, Page 4, Table 2	2/ \$6,988,398	\$6,988,398	\$6,988,398	\$6,988,398	\$6,988,398
10a	Work Order Write Off Adjustment	Per Company's books	\$22,398	\$22,398	\$22,398	\$22,398	\$22,398
11	Total Net Plant in Service	Line 9 + Line 10 + Line 10a	\$40,319,425	\$40,319,425	\$40,319,425	\$40,319,425	\$40,319,425
<u>Deferred Tax Calculation:</u>							
12	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4323	3.40%	3.40%	3.40%	3.40%	3.40%
13	Vintage Year Tax Depreciation:						
14	2015 Spend	Page 9 of 28, Line 22	\$71,871,022	\$2,120,892	\$1,961,656	\$1,814,760	\$1,678,440
15	Cumulative Tax Depreciation	Prior Year Line 15 + Current Year Line 14	\$71,871,022	\$73,991,914	75,953,570	77,768,330	79,446,770
16	Book Depreciation	Column (a) = Line 6 * Line 12 * 50%; Column (b) = Line 6 * Line 12	\$1,031,463	\$2,062,926	\$2,062,926	\$2,062,926	\$2,062,926
17	Cumulative Book Depreciation	Prior Year Line 17 + Current Year Line 16	\$1,031,463	\$3,094,390	\$5,157,316	\$7,220,243	\$9,283,169
18	Cumulative Book / Tax Timer	Line 15 - Line 17	\$70,839,559	\$70,897,524	\$ 70,796,254	\$ 70,548,087	\$ 70,163,601
19	Effective Tax Rate		35.00%	35.00%	35.00%	21.00%	21.00%
20	Deferred Tax Reserve	Line 18 * Line 19	\$24,793,846	\$24,814,134	\$24,778,689	\$14,815,098	\$14,734,356
21	Less: FY 2015 Federal NOL	Page 21 of 28, Line 12(k)	(\$8,148,936)	(\$8,148,936)	(\$8,148,936)	(\$8,148,936)	(\$8,148,936)
22	Less: Proration Adjustment	Col (d) = Page 25 of 28, Line 40; Col (e) = Page 26 of 28, Line 40	\$0	\$0	\$0	\$47,157	\$73,061
23	Excess Deferred Tax	Page 27 of 28	\$0	\$0	\$0	\$9,885,418	\$9,885,418
24	Net Deferred Tax Reserve	Sum of Lines 20 through 22	\$16,644,909	\$16,665,197	\$16,629,752	\$16,598,737	\$16,543,899
<u>Rate Base Calculation:</u>							
25	Cumulative Incremental Capital Included in Rate Base	Line 11	\$40,319,425	\$40,319,425	\$40,319,425	\$40,319,425	\$40,319,425
26	Accumulated Depreciation	-Line 17	(\$1,031,463)	(\$3,094,390)	(\$5,157,316)	(\$7,220,243)	(\$9,283,169)
27	Deferred Tax Reserve	-Line 24	(\$16,644,909)	(\$16,665,197)	(\$16,629,752)	(\$16,598,737)	(\$16,543,899)
28	Year End Rate Base	Sum of Lines 25 through 27	\$22,643,053	\$20,559,839	\$18,532,357	\$16,500,445	\$14,492,357
<u>Revenue Requirement Calculation:</u>							
29	Average Rate Base	Column (a) = Current Year Line 27 ÷ 2; Column (b) = (Prior Year Line 27 + Current Year Line 27) ÷ 2	\$11,321,526	\$21,601,446	\$19,546,098	\$17,516,401	\$15,496,401
30	Pre-Tax ROR	Page 28 of 28	9.68%	9.68%	9.68%	9.36%	8.41%
31	Return and Taxes	Line 29 * Line 30	\$1,095,924	\$2,091,020	\$1,892,062	\$1,639,535	\$1,303,247
32	Book Depreciation	Line 16	\$1,031,463	\$2,062,926	\$2,062,926	\$2,062,926	\$2,062,926
33	Annual Revenue Requirement	Line 31 + Line 32	\$2,127,387	\$4,153,946	\$3,954,989	\$3,702,462	\$3,366,174
34	As Approved in RIPUC Docket No. 4539		\$2,335,465	\$4,569,615	\$4,369,693	\$4,172,667	\$3,979,199
35	Transmission-related NOL adjustment		(\$191,621)	(\$383,242)	(\$383,242)	(\$383,242)	(\$383,242)
36	Work Order Write Off Adjustment		(\$16,457)	(\$32,427)	(\$31,462)	(\$30,490)	(\$29,532)

1/ Actual Retirements

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of Tax Depreciation and Repairs Deduction on FY2015 Incremental Capital Investments

Line No.			Fiscal Year 2015 (a)	Fiscal Year 2016 (b)	Fiscal Year 2017 (c)	Fiscal Year 2018 (d)	Fiscal Year 2019 (e)
	<u>Capital Repairs Deduction</u>						
1	Plant Additions	Page 8 of 28, Line 3	\$76,340,403				
2	Capital Repairs Deduction Rate	Per Tax Department	1/ 23.10%				
3	Capital Repairs Deduction	Line 1 * Line 2	\$17,634,633				
	<u>Bonus Depreciation</u>						
4	Plant Additions	Line 1	\$76,340,403				
5	Less Capital Repairs Deduction	Line 3	\$17,634,633				
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$58,705,770				
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	99.91%				
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$58,652,935				
9	Bonus Depreciation Rate (April 2014 - December 2014)	1 * 75% * 50%	37.50%				
10	Bonus Depreciation Rate (January 2015 - March 2015)	1 * 25% * 50%	12.50%				
11	Total Bonus Depreciation Rate	Line 9 + Line 10	50.00%				
12	Bonus Depreciation	Line 8 * Line 11	\$29,326,468				
	<u>Remaining Tax Depreciation</u>						
13	Plant Additions	Line 1	\$76,340,403				
14	Less Capital Repairs Deduction	Line 3	\$17,634,633				
15	Less Bonus Depreciation	Line 12	\$29,326,468				
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$29,379,302	\$29,379,302	\$29,379,302	\$29,379,302	\$29,379,302
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	7.219%	6.677%	6.177%	5.713%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$1,101,724	\$2,120,892	\$1,961,656	\$1,814,760	\$ 1,678,440
19	481(a) adjustment for partial retirements	Per Tax Department	\$14,395,754				
20	FY15 Loss incurred due to retirements	Per Tax Department	\$2,401,647				
21	Cost of Removal	Page 8 of 28, Line 10 + Line 10a	\$7,010,796				
		Sum of Lines 3, 12, 18,19, 20, and 21					
22	Total Tax Depreciation and Repairs Deduction		\$71,871,022	\$2,120,892	\$1,961,656	\$1,814,760	\$1,678,440

1/ Capital Repairs percentage is based on the actual results of the FY 2015 tax return.

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2018 Revenue Requirement on FY 2014 Actual Incremental Capital Investment

Line No.			Fiscal Year 2014 (a)	Fiscal Year 2015 (b)	Fiscal Year 2016 (c)	Fiscal Year 2017 (d)	Fiscal Year 2018 (e)	Fiscal Year 2019 (f)
<u>Capital Investment Allowance</u>								
1	Non-Discretionary Capital	Per RIPUC Docket No. 4382	\$6,923,860	\$0	\$0	\$0	\$0	\$0
1a	Work Order Write Off Adjustment	Per Company's books	(\$472,942)					
<u>Discretionary Capital</u>								
2	Lesser of Actual Cumulative Non-Discretionary Capital Additions or Spending, or Approved Spending	Per RIPUC Docket No. 4382	\$6,400,406	\$0	\$0	\$0	\$0	\$0
2a	Work Order Write Off Adjustment	Per Company's books	\$ (8,965)					
3	Total Allowed Capital Included in Rate Base	Line 1 + Line 1a + Line 2 + Line 2a	\$12,842,359	\$0	\$0	\$0	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>								
4	Total Allowed Capital Included in Rate Base in Current Year	Line 3	\$12,842,359	\$0	\$0	\$0	\$0	\$0
5	Retirements	Page 16 of 28, Line 9(c)	1/ (\$4,165,367)	\$0	\$0	\$0	\$0	\$0
6	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$17,007,726	17,007,726	17,007,726	17,007,726	17,007,726	17,007,726
<u>Change in Net Capital Included in Rate Base</u>								
7	Capital Included in Rate Base	Line 3	\$12,842,359	\$0	\$0	\$0	\$0	\$0
8	Depreciation Expense	Per Settlement Agreement Docket No. 4323, excluding General Plant	2/ \$7,173,397	\$0	\$0	\$0	\$0	\$0
9	Incremental Capital Amount	Column (a) = Line 7 - Line 8; Column (b) = Prior Year Line 9	\$5,668,962	\$5,668,962	\$5,668,962	\$5,668,962	\$5,668,962	\$5,668,962
10	Total Cost of Removal	Page 16 of 28, Line 6(c)	(\$887,841)	(\$887,841)	(\$887,841)	(\$887,841)	(\$887,841)	(\$887,841)
10a	Work Order Write Off Adjustment	Per Company's books	(\$37,062)	(\$37,062)	(\$37,062)	(\$37,062)	(\$37,062)	(\$37,062)
11	Total Net Plant in Service	Line 9 + Line 10 + Line 10a	\$4,744,059	\$4,744,059	\$4,744,059	\$4,744,059	\$4,744,059	\$4,744,059
<u>Deferred Tax Calculation:</u>								
12	Composite Book Depreciation Rate	As approved per R.L.P.U.C. Docket No. 4323	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%
13	Vintage Year Tax Depreciation:							
14	2014 Spend	Page 11 of 28, Line 20	\$7,826,326	\$306,845	\$283,808	\$262,555	\$242,832	\$224,640
15	Cumulative Tax Depreciation	Prior Year Line 15 + Current Year Line 14	\$7,826,326	\$8,133,171	\$8,416,979	\$8,679,534	\$8,922,366	\$9,147,006
16	Book Depreciation	Column (a) = Line 6 * Line 12 * 50%; Column (b) = Line 6 * Line 12	\$289,131	\$578,263	\$578,263	\$578,263	\$578,263	\$578,263
17	Cumulative Book Depreciation	Prior Year Line 17 + Current Year Line 16	\$289,131	\$867,394	\$1,445,657	\$2,023,919	\$2,602,182	\$3,180,445
18	Cumulative Book / Tax Timer	Line 15 - Line 17	\$7,537,194	\$7,265,777	\$6,971,322	\$6,655,614	\$6,320,184	\$5,966,562
19	Effective Tax Rate		35.00%	35.00%	35.00%	35.00%	21.00%	21.00%
20	Deferred Tax Reserve	Line 18 * Line 19	\$2,638,018	\$2,543,022	\$2,439,963	\$2,329,465	\$1,327,239	\$1,252,978
21	Less: FY 2014 Federal NOL	Page 21 of 28, Line 12(j)	(\$1,200,808)	(\$1,200,808)	(\$1,200,808)	(\$1,200,808)	(\$1,200,808)	(\$1,200,808)
22	Less: Proration Adjustment	Col (e) = Page 25 of 28, Line 40; Col (f) = Page 26 of 28, Line 40	\$0	\$0	\$0	\$0	\$63,739	\$67,196
23	Excess Deferred Tax	Page 27 of 28	\$0	\$0	\$0	\$0	\$896,566	\$896,566
24	Net Deferred Tax Reserve	Sum of Lines 20 through 22	\$1,437,210	\$1,342,214	\$1,239,155	\$1,128,657	\$1,086,736	\$1,015,932
<u>Rate Base Calculation:</u>								
25	Cumulative Incremental Capital Included in Rate Base	Line 11	\$4,744,059	\$4,744,059	\$4,744,059	\$4,744,059	\$4,744,059	\$4,744,059
26	Accumulated Depreciation	-Line 17	(\$289,131)	(\$867,394)	(\$1,445,657)	(\$2,023,919)	(\$2,602,182)	(\$3,180,445)
27	Deferred Tax Reserve	-Line 24	(\$1,437,210)	(\$1,342,214)	(\$1,239,155)	(\$1,128,657)	(\$1,086,736)	(\$1,015,932)
28	Year End Rate Base	Sum of Lines 25 through 27	\$3,017,717	\$2,534,451	\$2,059,247	\$1,591,482	\$1,055,141	\$547,682
<u>Revenue Requirement Calculation:</u>								
29	Average Rate Base	Col (a) = Line 28 * 23.23%; Col (b) = (Prior Year Line 28 + Current Year Line 28)/2	3/ \$670,654	\$2,776,084	\$2,296,849	\$1,825,365	\$1,323,312	\$801,411
30	Pre-Tax ROR	Page 28 of 28	9.68%	9.68%	9.68%	9.68%	9.36%	8.41%
31	Return and Taxes	Line 29 * Line 30	\$64,919	\$268,725	\$222,335	\$176,695	\$123,862	\$67,399
32	Book Depreciation	Line 16	\$289,131	\$578,263	\$578,263	\$578,263	\$578,263	\$578,263
33	Annual Revenue Requirement	Line 31 + Line 32	\$354,051	\$846,988	\$800,598	\$754,958	\$702,125	\$645,661
34	As Approved in RIPUC Docket No. 4539		\$373,851	\$900,001	\$852,205	\$805,187	\$755,737	\$706,781
35	Transmission-related NOL adjustment		\$0	\$0	\$0	\$0	\$0	\$0
36	Work Order Write Off Adjustment		(\$19,800)	(\$53,014)	(\$51,607)	(\$50,229)	(\$48,810)	(\$47,409)

1/ Actual Retirements

2/ Depreciation Expense has been prorated for 2 months (February - March 2014)

3/ 23.23% per RIPUC Docket No. 4382 (FY 2014 Elec ISR reconciliation), Attachment WRR-1-Revised, Page 12.

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of Tax Depreciation and Repairs Deduction on FY2014 Incremental Capital Investments

Line No.			Fiscal Year 2014 (a)	Fiscal Year 2015 (b)	Fiscal Year 2016 (c)	Fiscal Year 2017 (d)	Fiscal Year 2018 (e)	Fiscal Year 2019 (f)
	<u>Capital Repairs Deduction</u>							
1	Plant Additions	Page 10 of 28, Line 3	\$12,842,359					
2	Capital Repairs Deduction Rate	Per Tax Department	1/ 34.46%					
3	Capital Repairs Deduction	Line 1 * Line 2	\$4,425,477					
	<u>Bonus Depreciation</u>							
4	Plant Additions	Line 1	\$12,842,359					
5	Less Capital Repairs Deduction	Line 3	\$4,425,477					
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$8,416,882					
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	99.00%					
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$8,332,713					
9	Bonus Depreciation Rate (April 2013 - December 2013)	1 * 75% * 50%	37.50%					
10	Bonus Depreciation Rate (January 2014 - March 2014)	1 * 25% * 50%	12.50%					
11	Total Bonus Depreciation Rate	Line 9 + Line 10	50.00%					
12	Bonus Depreciation	Line 8 * Line 11	\$4,166,357					
	<u>Remaining Tax Depreciation</u>							
13	Plant Additions	Line 1	\$12,842,359					
14	Less Capital Repairs Deduction	Line 3	\$4,425,477					
15	Less Bonus Depreciation	Line 12	\$4,166,357					
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$4,250,525	\$4,250,525	\$4,250,525	\$4,250,525	\$4,250,525	\$4,250,525
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	7.219%	6.677%	6.177%	5.713%	5.285%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$159,395	\$ 306,845	\$ 283,808	\$262,555	\$242,832	\$224,640
19	Cost of Removal	Page 10 of 28, Line 10 + Line 10a	(\$924,903)					
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18 and 19	\$7,826,326	\$306,845	\$283,808	\$262,555	\$242,832	\$224,640

1/ Capital Repairs percentage is based on the FY 2014 tax return.

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2018 Revenue Requirement on FY 2013 Actual Incremental Capital Investment

Line No.			Fiscal Year 2013 (a)	Fiscal Year 2014 (b)	Fiscal Year 2015 (c)	Fiscal Year 2016 (d)	Fiscal Year 2017 (e)	Fiscal Year 2018 (f)	Fiscal Year 2019 (g)
	<u>Capital Additions Allowance</u>								
	<i>Non-Discretionary Capital</i>								
1	Non-Discretionary Additions	Per RIPUC Docket No. 4307	(\$5,184,396)	\$0	\$0	\$0	\$0	\$0	\$0
1a	Work Order Write Off Adjustment	Per Company's books	(\$576,955)	\$0	\$0	\$0	\$0	\$0	\$0
	<i>Discretionary Capital</i>								
2	Lesser of Actual Discretionary Capital Additions or Spending or Approved Spending	Per RIPUC Docket No. 4307	(\$1,850,463)	\$0	\$0	\$0	\$0	\$0	\$0
2a	Work Order Write Off Adjustment	Per Company's books	(\$207,197)	\$0	\$0	\$0	\$0	\$0	\$0
3	Total Allowed Capital Included in Rate Base in Current Year	Line 1 + Line 1a + Line 2 + Line 2a	(\$7,819,012)	\$0	\$0	\$0	\$0	\$0	\$0
	<u>Depreciable Net Capital Included in Rate Base</u>								
4	Total Allowed Capital Included in Rate Base in Current Year	Line 3	(\$7,819,012)	\$0	\$0	\$0	\$0	\$0	\$0
5	Retirements		\$5,838,935	\$0	\$0	\$0	\$0	\$0	\$0
6	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Columns (b), (c), & (d) = Prior Year Line 6	(\$13,657,947)	(\$13,657,947)	(\$13,657,947)	(\$13,657,947)	(\$13,657,947)	(\$13,657,947)	(\$13,657,947)
	<u>Change in Net Capital Included in Rate Base</u>								
7	Capital Included in Rate Base	Line 3	(\$7,819,012)	\$0	\$0	\$0	\$0	\$0	\$0
8	Depreciation Expense	As approved per R.I.P.U.C. Docket No. 4065, excluding general plant	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Incremental Capital Amount	Column (a) = Line 7 - Line 8; Columns (b), (c) & (d) = Prior Year Line 9	(\$7,819,012)	(\$7,819,012)	(\$7,819,012)	(\$7,819,012)	(\$7,819,012)	(\$7,819,012)	(\$7,819,012)
10	Total Cost of Removal		(\$1,895,059)	(\$1,895,059)	(\$1,895,059)	(\$1,895,059)	(\$1,895,059)	(\$1,895,059)	(\$1,895,059)
10a	Work Order Write Off Adjustment	Per Company's books	(\$106,751)	(\$106,751)	(\$106,751)	(\$106,751)	(\$106,751)	(\$106,751)	(\$106,751)
11	Total Net Plant in Service	Line 9 + Line 10 + Line 10a	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)
	<u>Deferred Tax Calculation:</u>								
12	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4065	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%
13	Tax Depreciation	Page 13 of 28, Line 20	(\$6,531,672)	(\$246,695)	(\$228,173)	(\$211,087)	(\$195,230)	(\$180,604)	(\$167,038)
14	Cumulative Tax Depreciation	Prior Year Line 13 + Current Year Line 14	(\$6,531,672)	(\$6,778,367)	(\$7,006,540)	(\$7,217,627)	(\$7,412,857)	(\$7,593,461)	(\$7,760,499)
15	Book Depreciation	Column (a) = Line 6 * Line 12 * 50%; Columns (b), (c) & (d) = Line 6 * Line 12	(\$232,185)	(\$464,370)	(\$464,370)	(\$464,370)	(\$464,370)	(\$464,370)	(\$464,370)
16	Cumulative Book Depreciation	Prior Year Line 16 + Current Year Line 15	(\$232,185)	(\$696,555)	(\$1,160,925)	(\$1,625,296)	(\$2,089,666)	(\$2,554,036)	(\$3,018,406)
17	Cumulative Book / Tax Timer	Line 14 - Line 16	(\$6,299,487)	(\$6,081,812)	(\$5,845,615)	(\$5,592,331)	(\$5,323,191)	(\$5,039,425)	(\$4,742,093)
18	Effective Tax Rate		35.00%	35.00%	35.00%	35.00%	35.00%	21.00%	21.00%
19	Deferred Tax Reserve	Line 17 * Line 18	(\$2,204,820)	(\$2,128,634)	(\$2,045,965)	(\$1,957,316)	(\$1,863,117)	(\$1,058,279)	(\$995,839)
20	Less: FY 2013 Federal NOL	Page 21 of 28, Line 12(i)	(\$2,342,381)	(\$2,342,381)	(\$2,342,381)	(\$2,342,381)	(\$2,342,381)	(\$2,342,381)	(\$2,342,381)
21	Less: Proration Adjustment	Col (a) through (f) = n/a; Col (g)=Page 25 of 28, Line 40; Col (h)=Page 26 of 28, Line 40	\$0	\$0	\$0	\$0	\$0	(\$53,922)	(\$56,500)
22	Excess Deferred Tax	Page 27 of 28	\$0	\$0	\$0	\$0	\$0	(\$715,451)	(\$715,451)
23	Net Deferred Tax Reserve	Sum of Lines 19 through 21	(\$4,547,202)	(\$4,471,016)	(\$4,388,347)	(\$4,299,697)	(\$4,205,498)	(\$4,170,034)	(\$4,110,172)
	<u>Rate Base Calculation:</u>								
24	Cumulative Incremental Capital Included in Rate Base	Line 11	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)
25	Accumulated Depreciation	-Line 16	\$232,185	\$696,555	\$1,160,925	\$1,625,296	\$2,089,666	\$2,554,036	\$3,018,406
26	Deferred Tax Reserve	-Line 23	\$4,547,202	\$4,471,016	\$4,388,347	\$4,299,697	\$4,205,498	\$4,170,034	\$4,110,172
27	Year End Rate Base	Sum of Lines 24 through 26	(\$5,041,435)	(\$4,653,251)	(\$4,271,550)	(\$3,895,829)	(\$3,525,658)	(\$3,096,752)	(\$2,692,243)
	<u>Revenue Requirement Calculation:</u>								
28	Average Rate Base	Column (a) = Current Year Line 27 ÷ 2; Column (b) = (Prior Year Line 27 + Current Year Line 27) ÷ 2	(\$2,520,717)	(\$4,847,343)	(\$4,462,400)	(\$4,083,689)	(\$3,710,743)	(\$3,311,205)	(\$2,894,498)
29	Pre-Tax ROR	Page 28 of 28	9.84%	9.68%	9.68%	9.68%	9.68%	9.36%	8.41%
30	Return and Taxes	Line 28 * Line 29	(\$248,039)	(\$469,223)	(\$431,960)	(\$395,301)	(\$359,200)	(\$309,929)	(\$243,427)
31	Book Depreciation	Line 15	(\$232,185)	(\$464,370)	(\$464,370)	(\$464,370)	(\$464,370)	(\$464,370)	(\$464,370)
32	Property Taxes	Year 1 = \$0, then Prior Year (Line 11 - Line 16) * Current Year Effective Property Tax rate	\$0	(\$350,952)	(\$374,039)	(\$324,300)	(\$335,967)	(\$289,520)	(\$272,130)
33	Annual Revenue Requirement	Sum of Lines 30 through 32	(\$480,224)	(\$1,284,545)	(\$1,270,370)	(\$1,183,971)	(\$1,159,537)	(\$1,063,819)	(\$979,928)
34	FY 2013 Revenue Requirement as reconciled through the FY 2016 Reconciliation Filing RIPUC Docket No. 4539		(\$433,148)	(\$1,160,601)	(\$1,133,816)	(\$1,075,239)	(\$1,042,296)	(\$963,881)	(\$912,008)
35	Transmission-related NOL adjustment		\$0	\$0	\$0	\$0	\$0	\$0	\$0
36	Work Order Write Off Adjustment		(\$47,076)	(\$123,944)	(\$136,554)	(\$108,732)	(\$117,241)	(\$111,015)	(\$107,656)

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of Tax Depreciation and Repairs Deduction on FY2013 Incremental Capital Investments

		Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year
		<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
<u>Capital Repairs Deduction</u>								
1	Plant Additions	Page 12 of 28, Line 3		(\$7,819,012)				
2	Capital Repairs Deduction Rate		1/	<u>12.59%</u>				
3	Capital Repairs Deduction	Line 1 * Line 2		(\$984,414)				
<u>Bonus Depreciation</u>								
4	Plant Additions	Line 1		(\$7,819,012)				
5	Less Capital Repairs Deduction	Line 3		(\$984,414)				
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5		(\$6,834,598)				
7	Percent of Plant Eligible for Bonus Depreciation			<u>100.00%</u>				
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7		(\$6,834,598)				
9	Bonus Depreciation Rate (April 2012 - December 2012)	1 * 75% * 50%		37.50%				
10	Bonus Depreciation Rate (January 2013 - March 2013)	1 * 25% * 50%		<u>12.50%</u>				
11	Total Bonus Depreciation Rate	Line 9 + Line 10		50.00%				
12	Bonus Depreciation	Line 8 * Line 11		(\$3,417,299)				
<u>Remaining Tax Depreciation</u>								
13	Plant Additions	Line 1		(\$7,819,012)				
14	Less Capital Repairs Deduction	Line 3		(\$984,414)				
15	Less Bonus Depreciation	Line 12		(\$3,417,299)				
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15		(\$3,417,299)	(\$3,417,299)	(\$3,417,299)	(\$3,417,299)	(\$3,417,299)
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946		<u>3.750%</u>	<u>7.219%</u>	<u>6.677%</u>	<u>6.177%</u>	<u>5.713%</u>
18	Remaining Tax Depreciation	Line 16 * Line 17		(\$128,149)	(\$246,695)	(\$228,173)	(\$211,087)	(\$195,230)
							(\$180,604)	(\$167,038)
19	Cost of Removal	Page 12 of 28, Line 10 + Line 10a		(\$2,001,810)				
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19		<u>(\$6,531,672)</u>	<u>(\$246,695)</u>	<u>(\$228,173)</u>	<u>(\$211,087)</u>	<u>(\$195,230)</u>
							<u>(\$180,604)</u>	<u>(\$167,038)</u>

1/ Capital Repairs percentage is based on the FY 2013 tax reurn.

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2018 Revenue Requirement on FY 2012 Actual Incremental Capital Investment

Line No.			Fiscal Year 2012 (a)	Fiscal Year 2013 (b)	Fiscal Year 2014 (c)	Fiscal Year 2015 (d)	Fiscal Year 2016 (e)	Fiscal Year 2017 (f)	Fiscal Year 2018 (g)	Fiscal Year 2019 (h)
	<u>Capital Additions Allowance</u>									
	<i>Non-Discretionary Capital</i>									
1	Non-Discretionary	Per RIPUC Docket No. 4218	(\$4,019,686)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<i>Discretionary Capital</i>									
2	Lesser of Actual Discretionary Capital Additions or Spending or Approved Spending	Per RIPUC Docket No. 4218	\$4,163,942	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Total Allowed Capital Included in Rate Base	Line 1 + Line 2	\$144,256	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<u>Depreciable Net Capital Included in Rate Base</u>									
4	Total Allowed Capital Included in Rate Base in Current Year	Line 3	\$144,256	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Retirements		\$19,938	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Columns (b) through (h) = Prior Year Line 6	\$124,318	\$124,318	\$124,318	\$124,318	\$124,318	\$124,318	\$124,318	\$124,318
	<u>Change in Net Capital Included in Rate Base</u>									
7	Incremental Capital Amount	Column (a) = Line 4, Columns (b) through (h) = Prior Year Line 7	\$144,256	\$144,256	\$144,256	\$144,256	\$144,256	\$144,256	\$144,256	\$144,256
8	Cost of Removal		(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)
9	Total Net Plant in Service	Line 7 + Line 8	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)
	<u>Deferred Tax Calculation:</u>									
10	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4065	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%
11	Tax Depreciation	Page 15 of 28, Line 20	(\$654,965)	\$2,107	\$1,949	\$1,803	\$1,667	\$1,542	\$1,427	\$1,320
12	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	(\$654,965)	(\$652,858)	(\$650,909)	(\$649,107)	(\$647,439)	(\$645,897)	(\$644,471)	(\$643,151)
13	Book Depreciation	Column (a) = -Line 6 * Line 10 * 50%; Columns (b) through (h)= Line 6 * Line 10	(\$2,113)	(\$4,227)	(\$4,227)	(\$4,227)	(\$4,227)	(\$4,227)	(\$4,227)	(\$4,227)
14	Cumulative Book Depreciation	Prior Year Line 14 + Current Year Line 13	(\$2,113)	(\$6,340)	(\$10,567)	(\$14,794)	(\$19,021)	(\$23,247)	(\$27,474)	(\$31,701)
15	Cumulative Book / Tax Timer	Line 12 - Line 14	(\$652,852)	(\$646,518)	(\$640,342)	(\$634,313)	(\$628,419)	(\$622,650)	(\$616,996)	(\$611,450)
16	Effective Tax Rate		35.00%	35.00%	35.00%	35.00%	35.00%	35.00%	21.00%	21.00%
17	Deferred Tax Reserve	Line 15 * Line 16	(\$228,498)	(\$226,281)	(\$224,120)	(\$222,009)	(\$219,947)	(\$217,927)	(\$129,569)	(\$128,404)
18	Less: FY 2013 Federal NOL	Page 21 of 28, Line 12(h)	(\$3,434,992)	(\$3,434,992)	(\$3,434,992)	(\$3,434,992)	(\$3,434,992)	(\$3,434,992)	(\$3,434,992)	(\$3,434,992)
19	Less: Proration Adjustment	Col (a) through (f) = n/a; Col (g) =Page 25 of 28, Line 40; Col (h)=Page 26 of 28, Line 40	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,074)	(\$1,054)
20	Excess Deferred Tax	Page 27 of 28	\$0	\$0	\$0	\$0	\$0	\$0	(\$86,577)	(\$86,577)
21	Net Deferred Tax Reserve	Sum of Lines 17 through 19	(\$3,663,490)	(\$3,661,274)	(\$3,659,112)	(\$3,657,002)	(\$3,654,939)	(\$3,652,920)	(\$3,652,213)	(\$3,651,028)
	<u>Rate Base Calculation:</u>									
22	Cumulative Incremental Capital Included in Rate Base	Line 9	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)
23	Accumulated Depreciation	-Line 14	\$2,113	\$6,340	\$10,567	\$14,794	\$19,021	\$23,247	\$27,474	\$31,701
24	Deferred Tax Reserve	-Line 21	\$3,663,490	\$3,661,274	\$3,659,112	\$3,657,002	\$3,654,939	\$3,652,920	\$3,652,213	\$3,651,028
25	Year End Rate Base	Sum of Lines 22 through 24	\$3,038,729	\$3,040,739	\$3,042,804	\$3,044,921	\$3,047,085	\$3,049,292	\$3,052,812	\$3,055,854
	<u>Revenue Requirement Calculation:</u>									
26	Average Rate Base	(Prior Year Line 25 + Current Year Line 25) ÷2	\$1,519,364	\$3,039,734	\$3,041,771	\$3,043,862	\$3,046,003	\$3,048,188	\$3,051,052	\$3,054,333
27	Pre-Tax ROR	Page 28 of 28	9.30%	9.84%	9.68%	9.68%	9.68%	9.68%	9.36%	8.41%
28	Return and Taxes	Line 26 * Line 27	\$141,301	\$299,110	\$294,443	\$294,646	\$294,853	\$295,065	\$285,578	\$256,869
29	Book Depreciation	Line 13	(\$2,113)	(\$4,227)	(\$4,227)	(\$4,227)	(\$4,227)	(\$4,227)	(\$4,227)	(\$4,227)
30	Property Taxes	Year 1 = \$0, then Prior Year (Line 9 - Line 14) * Current Year Effective Property Tax rate	\$0	(\$21,523)	(\$22,710)	(\$24,344)	(\$23,626)	(\$24,918)	(\$22,605)	(\$22,447)
31	Annual Revenue Requirement	Sum of Lines 28 through 30	\$139,188	\$273,360	\$267,506	\$266,075	\$267,000	\$265,920	\$258,746	\$230,195
32	FY 2012 Revenue Requirement as reconciled through the FY 2016 Reconciliation Filing RIPUC Docket No. 4539		\$179,897	\$359,506	\$352,252	\$350,820	\$351,745	\$350,665	\$353,245	\$353,674
33	Transmission-related NOL adjustment		(\$40,709)	(\$86,146)	(\$84,746)	(\$84,745)	(\$84,745)	(\$84,745)	(\$84,745)	(\$84,745)

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of Tax Depreciation and Repairs Deduction on FY2012 Incremental Capital Investments

Line No.			Fiscal Year 2012 (a)	Fiscal Year 2013 (b)	Fiscal Year 2014 (c)	Fiscal Year 2015 (d)	Fiscal Year 2016 (e)	Fiscal Year 2017 (f)	Fiscal Year 2018 (g)	Fiscal Year 2019 (h)
	<u>Capital Repairs Deduction</u>									
1	Plant Additions	Page 14 of 28, Line 3	\$144,256							
2	Capital Repairs Deduction Rate	Per Tax Department	1/ 21.05%							
3	Capital Repairs Deduction	Line 1 * Line 2	\$30,366							
	<u>Bonus Depreciation</u>									
4	Plant Additions	Line 1	\$144,256							
5	Less Capital Repairs Deduction	Line 3	\$30,366							
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$113,890							
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	2/ 85.00%							
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$96,807							
9	Bonus Depreciation Rate (April 2011 - December 2011)	1 * 75% * 100%	75.00%							
10	Bonus Depreciation Rate (January 2012 - March 2012)	1 * 25% * 50%	12.50%							
11	Total Bonus Depreciation Rate	Line 9 + Line 10	87.50%							
12	Bonus Depreciation	Line 8 * Line 11	\$84,706							
	<u>Remaining Tax Depreciation</u>									
13	Plant Additions	Line 1	\$144,256							
14	Less Capital Repairs Deduction	Line 3	\$30,366							
15	Less Bonus Depreciation	Line 12	\$84,706							
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$29,184	\$29,184	\$29,184	\$29,184	\$29,184	\$29,184	\$29,184	\$29,184
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	7.219%	6.677%	6.177%	5.713%	5.285%	4.888%	4.522%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$1,094	\$2,107	\$1,949	\$1,803	\$1,667	\$1,542	\$1,427	\$1,320
19	Cost of Removal	Page 14 of 28, Line 8	(\$771,131)							
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19	(\$654,965)	\$2,107	\$1,949	\$1,803	\$1,667	\$1,542	\$1,427	\$1,320

1/ Per Docket 4307 FY 2013 Electric ISR Reconciliation Filing at Attachment WRR-1, Page 8, Line 2
2/ Since not all property additions qualify for bonus depreciation and because a project must be started after the beginning of the bonus period, January 1, 2008, an estimate of 85% is used rather than 100%.

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2012 - 2014 Incremental Capital Investment Summary

Line No.			Actual Fiscal Year <u>2012</u> (a)	Actual Fiscal Year <u>2013</u> (b)	Fiscal Year <u>2014</u> (c)
<u>Capital Investment</u>					
1	ISR - Eligible Capital Investment	Col (a) =FY 2012 ISR Reconciliation Filing Docket No. 4218; Col (b) = FY 2013 ISR Reconciliation Filing Docket No. 4307; Col (c) = FY 2014 ISR Reconciliation Filing Docket No. 4382	\$48,946,456	\$44,331,141	\$56,129,551
1a	Work Order Write Off Adjustment	Per Company's books	\$0	(\$784,153)	(\$481,907)
2	ISR - Eligible Capital Additions included in Rate Base per R.I.P.U.C. Docket No. 4323	Schedule MDL-3-ELEC Page 53, Docket No. 4323: Col (a)= Line Note 1(a); Col (b)= Line Note 2(b); Col (c)= Line Note 3(e)	\$48,802,200	\$51,366,341	\$42,805,284
3	Incremental ISR Capital Investment	Line 1 + Line 1a - Line 2	\$144,256	(\$7,819,353)	\$12,842,360
<u>Cost of Removal</u>					
4	ISR - Eligible Cost of Removal	Col (a) =FY 2012 ISR Reconciliation Filing Docket No. 4218; Col (b)= FY 2013 Reconciliation Filing Docket No. 4307; Col (c) = FY 2014 ISR Reconciliation Filing Docket No. 4382	\$5,807,869	5,179,941	\$5,007,992
4a	Work Order Write Off Adjustment	Per Company's books	\$0	(\$106,751)	(\$37,062)
5	ISR - Eligible Cost of Removal in Rate Base per R.I.P.U.C. Docket No. 4323	Workpaper MDL-19-ELEC Page 2, Docket No. 4323: Col (a)= Line Note 1(a); Col (b)= Line Note 2(b); Line Note 3(e)	\$6,579,000	\$7,075,000	\$5,895,833
6	Incremental Cost of Removal	Line 4 + Line 4a - Line 5	(\$771,131)	(\$2,001,810)	(\$924,903)
<u>Retirements</u>					
7	ISR - Eligible Retirements/Actual	Col (a)= FY 2012 ISR Reconciliation Filing Docket No. 4218; Col (b) = FY 2013 ISR Reconciliation Filing Docket No. 4307; Col (c) = FY 2014 ISR Reconciliation Filing Docket No. 4382	\$7,740,446	\$14,255,714	\$3,299,874
8	ISR - Eligible Retirements/Estimated	Col (a)= FY 2012 ISR Proposal Filing Docket No. 4218; Col (b)= FY 2013 ISR Proposal Filing Docket No. 4307; Col (c) = Line 2 (c) * 17.44% Retirement rate per Docket 4323 (Workpaper MDL-19-ELEC Page 3)	\$7,720,508	\$8,416,779	\$7,465,242
9	Incremental Retirements	Line 7 - Line 8	\$19,938	\$5,838,935	(\$4,165,367)

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
FY 2016 Capital Investment

				Actuals
Line No.	Discretionary Capital			(a)
1	Cumulative FY 2015 Discretionary Capital ADDITIONS	Docket No. 4473 FY15 Reconciliation Att. AST-1 Page 12, Line 4		\$123,541,880
2	FY 2016 Discretionary Capital ADDITIONS	Attachment JHP-1, Page 3, Table 1		\$35,488,464
3	Cumulative Actual Discretionary Capital Additions	Line 1 + Line 2		\$159,030,344
4	Cumulative FY 2015 Discretionary Capital SPENDING	Docket No. 4473 FY15 Reconciliation Att. AST-1 Page 12, Line 7		\$144,500,411
5	FY 2016 Discretionary Capital SPENDING	Attachment JHP-1, Page 5, Table 3		\$47,556,053
6	Cumulative Actual Discretionary Capital Spending	Line 4 + Line 5		\$192,056,464
				As Approved in Docket No. 4539
7	Cumulative FY 2015 Approved Discretionary Capital SPENDING	Docket No. 4473 FY15 Reconciliation Att. AST-1 Page 12, Line 10		\$127,736,150
8	FY 2016 Approved Discretionary Capital SPENDING	Docket No. 4539 FY16 Proposal, Section 2, Page 45, Chart 11		\$46,476,000
9	Cumulative Actual Approved Discretionary Capital Spending	Line 7 + Line 8		\$174,212,150
				Total Allowed
10	Cumulative Allowed Discretionary Capital Included in Rate Base	Lesser of Line 3, Line 6, or Line 9		\$159,030,344
11	Prior Year Cumulative Allowed Discretionary Capital Included in Rate Base	Docket No. 4473 FY15 Reconciliation Filing Att. AST-1, Page 12, Line 11		\$123,541,880
12	Total Allowed Discretionary Capital Included in Rate Base Current Year	Line 10 - Line 11		\$35,488,464

The Narragansett Electric Company d/b/a National Grid FY 2018 ISR Property Tax Recovery Adjustment (000s)											
Line		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)		
		<u>RY End</u>	<u>ISR Additions</u>	<u>Non-ISR Add's</u>	<u>Total Add's</u>	<u>Bk Depr (1)</u>	<u>Retirements</u>	<u>COR</u>	<u>End of FY 2014</u>		
1	Plant In Service	\$1,358,470	\$9,275	\$1,885	\$11,160		\$550		\$1,370,180		
2											
3	Accumulated Depr	\$611,570				\$7,498	\$550	(\$828)	\$618,789		
4											
5	Net Plant	\$746,900							\$751,391		
6											
7	Property Tax Expense	\$29,743							\$27,502		
8											
9	Effective Prop tax Rate	3.98%							3.66%		
10											
11											
12	<u>Effective tax Rate Calculation</u>	<u>End of FY 2014</u>	<u>ISR Additions</u>	<u>Non-ISR Add's</u>	<u>Total Add's</u>	<u>Bk Depr (1)</u>	<u>Retirements</u>	<u>COR</u>	<u>End of FY 2015</u>		
13											
14	Plant In Service	\$1,370,180	\$76,340	\$5,801	\$82,141		(\$15,666)		\$1,436,655		
15											
16	Accumulated Depr	\$618,789				\$46,514	(\$15,666)	(\$6,988)	\$642,649		
17											
18	Net Plant	\$751,391							\$794,006		
19											
20	Property Tax Expense	\$27,502							\$32,549		
21											
22	Effective Prop tax Rate	3.66%							4.10%		
23											
24	<u>Effective tax Rate Calculation</u>	<u>End of FY 2015</u>	<u>ISR Additions</u>	<u>Non-ISR Add's</u>	<u>Total Add's</u>	<u>Bk Depr (1)</u>	<u>Retirements</u>	<u>COR</u>	<u>End of FY 2016</u>		
25											
26	Plant In Service	\$1,436,655	\$72,003	\$17,773	\$89,777		(\$28,490)		\$1,497,942		
27											
28	Accumulated Depr	\$642,649				\$48,686	(\$28,490)	(\$8,193)	\$654,652		
29											
30	Net Plant	\$794,006							\$843,290		
31											
32	Property Tax Expense	\$32,549							\$31,580		
33											
34	Effective Prop tax Rate	4.10%							3.74%		
35											
36		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
37	Property Tax Recovery Calculation										(k)
38		<u>Cumulative Increm. ISR Prop. Tax for FY14</u>				<u>Cumulative Increm. ISR Prop. Tax for FY15</u>				<u>Cumulative Increm. ISR Prop. Tax for FY16</u>	
39		2 mos									
40	ISR Additions	\$9,275				\$76,340				\$72,003	
41	Book Depreciation: base allowance on ISR eligible plant	(\$7,173)				(\$43,032)				(\$43,032)	
42	Book Depreciation: current year ISR additions	(\$324)				(\$1,031)				(\$740)	
43	COR	<u>\$828</u>				<u>\$6,988</u>				<u>\$8,193</u>	
44											
45	Net Plant Additions	\$2,605				\$39,266				\$36,425	
46											
47	RY Effective Tax Rate	<u>3.98%</u>				<u>3.98%</u>				<u>3.98%</u>	
48	ISR Property Tax Recovery on FY 2014 vintage investment	\$104				\$102				\$89	
49	ISR Property Tax Recovery on FY 2015 vintage investment					\$1,564				\$1,523	
50	ISR Property Tax Recovery on FY 2016 vintage investment									\$1,451	
51											
52											
53	ISR Year Effective Tax Rate	3.66%				4.10%			3.74%		
54	RY Effective Tax Rate	3.98%	-0.32%			3.98%	0.12%		3.98%	-0.24%	
55	RY Effective Tax Rate 2 mos for FY 2014		-0.05%								
56	RY Net Plant times 2 mo rate	\$746,900	-0.05%	(\$401)		\$746,900 * 0.12%		\$875	\$746,900 * -0.24%		(\$1,773)
57	FY 2014 Net Adds times ISR Year Effective Tax rate	\$2,605	-0.32%	<u>(\$8)</u>		\$2,568 * 0.12%		\$3	\$2,234 * -0.24%		(\$5)
58	FY 2015 Net Adds times ISR Year Effective Tax rate					\$39,266 * 0.12%		<u>\$46</u>	\$38,234 * -0.24%		(\$91)
59	FY 2016 Net Adds times ISR Year Effective Tax rate								\$36,425 * -0.24%		<u>(\$86)</u>
60	Total Property Tax due to rate differential			<u>(\$409)</u>				<u>\$924</u>			<u>(\$1,869)</u>
61											
62	Total ISR Property Tax Recovery			<u>(\$306)</u>				<u>\$2,590</u>			<u>\$1,193</u>
62a	As Approved in RIPUC Docket No. 4539			(\$304)				\$2,590			\$1,192
62b	Work Order Write Off Adjustment			(2)				(0)			2

The Narragansett Electric Company d/b/a National Grid FY 2018 ISR Property Tax Recovery Adjustment (continued) (000s)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
<u>Effective tax Rate Calculation</u>	<u>End of FY 2016</u>	<u>ISR Additions</u>	<u>Non-ISR Add's</u>	<u>Total Add's</u>	<u>Bk Depr (1)</u>	<u>Retirements</u>	<u>COR</u>	<u>End of FY 2017</u>
63 Plant In Service	\$1,497,942	\$78,478	\$3,550	\$82,028		(\$16,041)		\$1,563,929
64 Accumulated Depr	\$654,652				\$50,850	(\$16,041)	(\$9,800)	\$679,661
65 Net Plant	\$843,290							\$884,268
66 Property Tax Expense	\$31,580							\$36,250
67 Effective Prop tax Rate	3.74%							4.10%
<u>Effective tax Rate Calculation</u>	<u>End of FY 2017</u>	<u>ISR Additions</u>	<u>Non-ISR Add's</u>	<u>Total Add's</u>	<u>Bk Depr (1)</u>	<u>Retirements</u>	<u>COR</u>	<u>End of FY 2018</u>
68 Plant In Service	\$1,563,929	\$74,843	\$3,100	\$77,943		(\$16,457)		\$1,625,415
69 Accumulated Depr	\$679,661				\$53,017	(\$16,457)	(\$9,646)	\$706,575
70 Net Plant	\$884,268							\$918,840
71 Property Tax Expense	\$36,250							\$34,409
72 Effective Prop tax Rate	4.10%							3.74%
<u>Property Tax Recovery Calculation</u>	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	<u>Cumulative Increm. ISR Prop. Tax for FY17</u>			<u>Cumulative Increm. ISR Prop. Tax for FY18</u>				
73 ISR Additions		\$78,478				\$74,843		
74 Book Depreciation: base allowance on ISR eligible plant		(\$43,032)				(\$43,032)		
75 Book Depreciation: current year ISR additions		(\$1,061)				(\$993)		
76 COR		<u>\$9,800</u>				<u>\$9,646</u>		
77								
78 Net Plant Additions		\$44,185				\$40,465		
79								
80 RY Effective Tax Rate		<u>3.98%</u>				<u>3.98%</u>		
81 ISR Property Tax Recovery on FY 2014 vintage investment			\$76					\$62
82 ISR Property Tax Recovery on FY 2015 vintage investment			\$1,440					\$1,358
83 ISR Property Tax Recovery on FY 2016 vintage investment			\$1,392					\$1,333
84 ISR Property Tax Recovery on FY 2017 vintage investment			\$1,760					\$1,675
85 ISR Property Tax Recovery on FY 2018 vintage investment								\$1,611
86								
87 ISR Year Effective Tax Rate	4.10%					3.74%		
88 RY Effective Tax Rate	3.98%	0.12%				3.98%	-0.24%	
89 RY Effective Tax Rate 2 mos for FY 2014								
90 RY Net Plant times 2 mo rate	\$746,900	* 0.12%	\$875			\$746,900	* -0.24%	(\$1,773)
91 FY 2014 Net Adds times ISR Year Effective Tax rate	\$1,900	* 0.12%	\$2			\$1,566	* -0.24%	(\$4)
92 FY 2015 Net Adds times ISR Year Effective Tax rate	\$36,171	* 0.12%	\$42			\$34,108	* -0.24%	(\$81)
93 FY 2016 Net Adds times ISR Year Effective Tax rate	\$34,945	* 0.12%	\$41			\$33,466	* -0.24%	(\$79)
94 FY 2017 Net Adds times ISR Year Effective Tax rate	\$44,185	* 0.12%	\$52			\$42,062	* -0.24%	(\$100)
95 FY 2018 Net Adds times ISR Year Effective Tax rate						\$40,465	* -0.24%	(\$96)
96 Total Property Tax due to rate differential			<u>\$1,013</u>					<u>(\$2,133)</u>
97								
97 Total ISR Property Tax Recovery			<u><u>\$5,680</u></u>					<u><u>\$3,907</u></u>

The Narragansett Electric Company
d/b/a National Grid
FY 2018 ISR Property Tax Recovery Adjustment (continued)
(000s)

Line Notes

1(a)-9(a)	Per Rate Year cost of service
1(b) - 9(h)	Per FY 2014 Electric ISR Reconciliation Filing per Docket 4382
14(a)-22(h)	Per FY 2015 Electric ISR Reconciliation Filing per Docket 4473
26(a)-34(h)	Per FY 2016 Electric ISR Reconciliation Filing per Docket 4539
40(a) - 62(c)	Per FY 2014 Electric ISR Reconciliation Filing per Docket 4382
40(e)-62(g)	Per FY 2015 Electric ISR Reconciliation Filing per Docket 4473
40(i)-62(k)	Per FY 2016 Electric ISR Reconciliation Filing per Docket 4539
63(a) - 67(h)	Per FY 2017 Electric ISR Compliance Filing per Docket 4592
68(a)	Per Line 63(h)
68(b)	Per Page 3 of 28, Line 1
68(c)	FY 2018 forecasted in service amount
68(d)	Line 68(b) + Line 68(c)
68(f)	Per Page 2 of 28, Line 5
68(h)	Line 68(a) + Line 68(d) +Line 68(f)
69(a)	Per Line 64(h)
69(e)	Rate Year depr allowance of \$44,986 * (Line 1(d)+1(f)* comp depr rate of 3.40%) + (Line 14(d)+14(f)* comp depr rate of 3.40%) + (Line , 26(d)+26(f)*comp depr rate of 3.40%) + (Line , 63(d)+63(f)*comp depr rate of 3.40%) + (Line 68(d) +68(f)*comp depr rate of 3.40%*50%)
69(f)	Line 68(f)
69(g)	Per Page 2 of 28, Line 10
69(h)	Line 69(a) + Line 69(e) + Line 69(f) + Line 69(g)
71(a)	Line 66(h)
71(h)	Line 70(h) * Line 72(h)
72(a)	Line 67(h)
72(h)	Line 34(h); effective tax rate per FY 2016 Electric ISR Reconciliation Filing per Docket 4539

Line Notes

73(a) - 97(c)	Per FY 2017 Electric ISR Compliance Filing per Docket 4592
73(f)	Line 68(b)
74(f)	Per Page 2 of 28, Line 8
75(f)	Per Page 2 of 28, Line 16
76(f)	Per Line 69(g)
78(f)	Sum of Lines 73 through 76
80(f)	Line 9(a)
81(h)	Line 80(f) * Line 90(f)
82(h)	Line 80(f) * Line 91(f)
83(h)	Line 80(f) * Line 92(f)
84(h)	Line 80(f) * Line 93(f)
85(h)	Line 80(f) * Line 94(f)
86(f)	Line 72(h)
87(f)	Line 9(a)
87(g)	Line 86(f) - Line 87(f)
89(f)	Line 5(a)
90(f)	Line 90(a) - ((Line 40(b)+Line 1(f))*3.40%)
91(f)	Line 91(a) - ((Line 40(f)+Line 14(f))*3.40%)
92(f)	Line 92(a) - ((Line 40(j)+Line 26(f))*3.40%)
93(f)	Line 93(a) - ((Line 73(b)+Line 63(f))*3.40%)
94(f)	Line 78(f)
89(g)-94(g)	Line 87(g)
89(h)-94(h)	Lines 89(f) through 94(f), Col (f) * Col (g)
95(h)	Sum of Lines 89(h) through 94(h)
97(h)	Sum of Lines 81(h) through 85(h) + Line 95(h)

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
								CY 2011	CY 2012	Jan-2013	Feb 13 - Jan 14			
1 Total Base Rate Plant DIT Provision								\$15,856,458	\$5,546,827	\$521,151	(\$1,967,911)			
2 Total Base Rate Plant DIT Provision	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
3 Incremental FY 12	(\$228,498)	(\$226,281)	(\$224,120)	(\$222,009)	(\$219,947)	(\$217,927)	(\$129,569)	\$13,279,050	\$4,353,286	(\$1,639,926)	\$0	\$0	\$0	\$0
4 Incremental FY 13		(\$2,013,121)	(\$1,937,607)	(\$2,045,965)	(\$1,957,316)	(\$1,863,117)	(\$1,058,279)		\$2,217	\$2,161	\$2,110	\$2,063	\$2,019	\$88,358
5 Incremental FY 14			\$2,763,058	\$2,543,022	\$2,439,963	\$2,329,465	\$1,327,239		(\$2,013,121)	\$75,514	(\$108,358)	\$88,649	\$94,199	\$804,838
6 FY 2015					\$24,793,846	\$24,814,134	\$24,778,689			\$2,763,058				
7 FY 2016						\$18,950,456	\$19,142,825				\$24,793,846	\$20,288	(\$35,445)	(\$9,963,590)
8 FY 2017							\$20,821,940					\$18,950,456	\$192,369	(\$7,573,701)
9 FY 2018													\$20,821,940	(\$8,310,152)
10 TOTAL Plant DIT Provision	(\$228,498)	(\$2,239,403)	\$601,331	\$25,068,893	\$44,027,290	\$64,991,874	\$48,217,374	\$13,050,552	\$2,342,381	\$1,200,808	\$24,467,561	\$18,958,397	\$20,964,585	(\$16,774,500)
11 Distribution-related NOL								\$3,434,992	\$8,552,548	\$13,179,356	\$8,148,936	\$10,693,796	\$1,388,912	\$0
12 Lesser of Distribution-related NOL or DIT Provision								\$3,434,992	\$2,342,381	\$1,200,808	\$8,148,936	\$10,693,796	\$1,388,912	(\$16,774,500)
13 Total NOL								\$4,310,461	\$11,442,811	\$19,452,677	\$12,108,052	\$16,267,471	\$2,073,004	\$0
14 NOL recovered in transmission rates								\$875,468	\$2,890,262	\$6,273,321	\$3,959,116	\$5,573,675	\$684,091	\$0
15 Distribution-related NOL								\$3,434,992	\$8,552,548	\$13,179,356	\$8,148,936	\$10,693,796	\$1,388,912	\$0

1(h) Per Dkt 4323 Compliance filing Attachment 1, Page 64 of 71, Line 19(e) less Line 19(a)
1(i)-(k) Per Dkt 4323 Compliance filing Attachment 1, Page 70 of 71, Lines 32, 42, and 48
3(a)-(g) ADIT per vintage year ISR revenue requirement calculations
3(h) -9(n) Year over year change in ADIT shown in Cols (a) through (e)
10 Sum of Lines 2 through 9
11 Line 15
12 Lesser of Line 10 or 11
13 Per Tax Department
14 Quarterly average transmission plant allocator per Integrated Facilities Agreement (IFA) * Line 13
15 Line 13 - Line 14

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
True-Up for FY 2012 through FY 2018 Net Operating Losses ("NOL")

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	
	Revenue Requirement Year							
	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	
1	Return on Rate Base	9.30%	9.84%	9.68%	9.68%	9.68%	9.68%	
	Vintage Capital Investment Year							
	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	
2	Lesser of NOL or DIT Provision	\$ 3,434,992	\$ 2,342,381	\$ 1,200,808	\$ 8,148,936	\$ 10,693,796	\$ 1,388,912	\$ (16,774,500)

Revenue Requirement Increase due to NOL

		Revenue Requirement Year													
Vintage Capital Investment Year		FY 2012		FY 2013		FY 2014		FY 2015		FY 2016		FY 2017		FY 2018	
3	FY 2012	\$	159,727	\$	338,003	\$	332,507	\$	332,507	\$	332,507	\$	332,507	\$	332,507
4	FY 2013	\$	-	\$	115,245	\$	226,743	\$	226,743	\$	226,743	\$	226,743	\$	226,743
5	FY 2014	\$	-	\$	-	\$	25,833	\$	116,238	\$	116,238	\$	116,238	\$	116,238
6	FY 2015	\$	-	\$	-	\$	-	\$	394,409	\$	788,817	\$	788,817	\$	788,817
7	FY 2016	\$	-	\$	-	\$	-	\$	-	\$	517,580	\$	1,035,159	\$	1,035,159
8	FY 2017	\$	-	\$	-	\$	-	\$	-	\$	-	\$	67,223	\$	134,447
9	FY 2018	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	(811,886)
10	TOTAL	\$	159,727	\$	453,248	\$	585,082	\$	1,069,897	\$	1,981,885	\$	2,566,688	\$	1,822,025

- 1(a) Per Docket No. 4065
- 1(b)-(c) Per vintage year revenue requirement calculations at Page 12 of 28, and Page 10 of 28, respectively
- 2 Per Page 21 of 28, Line 12
- 3 Line 2(a) * Line 1(a) * 50%; Line 2(a) * Line 1(b); Line 2(a) * Line 1(c); Line 2(a) * Line 1(d); Line 2(a) * Line 1(e)
- 4 Line 2(b) * Line 1(b) * 50%; Line 2(b) * Line 1(c); Line 2(b) * Line 1(d); Line 2(b) * Line 1(e)
- 5 Line 2(c) * Line 1(c) * 23.23%; Line 2(c) * Line 1(d); Line 2(c) * Line 1(e)
- 6 Line 2(d) * Line 1(d) * 50%; Line 2(d) * Line 1(e); Line 2(d) * Line 1(f); Line 2(d) * Line 1(g)
- 7 Line 2(e) * Line 1(e) * 50%; Line 2(e) * Line 1(f); Line 2(e) * Line 1(g)
- 8 Line 2(f) * Line 1(f) * 50%; Line 2(f) * Line 1(g)
- 9 Line 2(g) * Line 1(g) * 50%
- 10 Sum of Lines 3 through 9

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
True-Up for FY 2012 through FY 2016 Transmission - Related Net Operating Losses ("NOL")

		(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Revenue Requirement Year						
		FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
1	Return on Rate Base	9.30%	9.84%	9.68%	9.68%	9.68%	9.68%	9.68%
		Vintage Capital Investment Year						
		FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
2	Lesser of total NOL or DIT Provision (as previously filed)	\$ 4,310,461	\$ 2,342,381	\$ 1,200,808	\$ 12,108,052	\$ 10,200,749	\$ 2,073,004	\$ -
2a	Lesser of Distribution-related NOL or DIT Provision	\$ 3,434,992	\$ 2,342,381	\$ 1,200,808	\$ 8,148,936	\$ 6,705,697	\$ 1,388,912	\$ (16,774,500)
3	Transmission-related NOL adjustment	\$ (875,469)	\$ 0	\$ 0	\$ (3,959,116)	\$ (3,495,052)	\$ (684,092)	\$ (16,774,500)

Revenue Requirement Increase due to NOL

		Revenue Requirement Year						
		Vintage Capital Investment Year						
		FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
4	FY 2012	\$ (40,709)	\$ (86,146)	\$ (84,745)	\$ (84,745)	\$ (84,745)	\$ (84,745)	\$ (84,745)
5	FY 2013	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
6	FY 2014	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
7	FY 2015	\$ -	\$ -	\$ -	\$ (191,621)	\$ (383,242)	\$ (383,242)	\$ (383,242)
8	FY 2016	\$ -	\$ -	\$ -	\$ -	\$ (169,161)	\$ (338,321)	\$ (338,321)
9	FY 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (33,110)	\$ (66,220)
10	FY 2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (811,886)
11	TOTAL	\$ (40,709)	\$ (86,146)	\$ (84,745)	\$ (276,367)	\$ (637,148)	\$ (839,419)	\$ (1,684,415)
12	Total FY 2012 through FY 2016 revenue requirement impact	\$ (1,125,115)						

- 1 Per Docket No. 4065
- 2 Per Docket No. 4539
- 2a Per Page 21 of 26, Line 12; Line 2a(e) = Line 2(e) * Quarterly average transmission plant allocator per Integrated Facilities Agreement (IFA)
- 3 Line 2a - Line 2
- 4 Line 3(a) * Line 1(a) * 50%; Line 3(a) * Line 1(b); Line 3(a) * Line 1(c); Line 3(a) * Line 1(d); Line 3(a) * Line 1(e); Line 3(a) * Line 1(f); Line 3(a) * Line 1(g)
- 5 Line 3(b) * Line3(b) * 50%; Line 3(b) * Line 1(c); Line 3(b) * Line 1(d); Line 3(b) * Line 1(e); Line 3(b) * Line 1(f); Line 3(b) * Line 1(g)
- 6 Line 3(c) * Line 1(c) * 22.22%; Line 3(c) * Line 1(d); Line 3(c) * Line 1(e); Line 3(c) * Line 1(f); Line 3(c) * Line 1(g)
- 7 Line 3(d) * Line 1(d) * 50%; Line 3(d) * Line 1(e); Line 3(d) * Line 1(f); Line 3(d) * Line 1(g)
- 8 Line 3(e) * Line 1(e) * 50%; Line 3(e) * Line 1(f); Line 3(e) * Line 1(g)
- 9 Line 3(f) * Line 1(f) * 50%; Line 3(f) * Line 1(g)
- 10 Line 3(g) * Line 1(g) * 50%
- 11 Sum of Lines 4 through 10
- 12 Line 11(a) + Line 11(b) + Line 11(c) + Line 11(d) + Line 11(e)

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
True-Up for FY 2013 through FY 2016 Work Order Write Off Adjustment

	(a)	(b)	(c)	(d)	(e)	(f)
	FY 2013	FY 2014	Vintage Capital Investment Year		FY 2017	FY 2018
	FY 2015	FY 2016				
1 Total Net Plant in Service (as previously filed)	\$ (8,929,918)	\$ 5,263,028	\$ 40,613,665	\$ 36,614,111	\$ 45,246,226	\$ 41,457,226
1a Total Net Plant in Service	\$ (9,820,822)	\$ 4,744,059	\$ 40,319,425	\$ 37,144,770	\$ 45,246,226	\$ 41,457,226
2 Work Order Write Off Adjustment	\$ (890,904)	\$ (518,969)	\$ (294,240)	\$ 530,659	\$ -	\$ -

Revenue Requirement Decrease due to Work Order Write Off Adjustment

	Vintage Capital Investment Year		Revenue Requirement Year			
	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
3 FY 2013	\$ (47,076)	\$ (123,944)	\$ (136,554)	\$ (108,732)	\$ (117,241)	\$ (111,015)
4 FY 2014	\$ -	\$ (19,800)	\$ (53,014)	\$ (51,607)	\$ (50,229)	\$ (48,810)
5 FY 2015	\$ -	\$ -	\$ (16,457)	\$ (32,427)	\$ (31,462)	\$ (30,490)
6 FY 2016	\$ -	\$ -	\$ -	\$ 29,263	\$ 57,675	\$ 55,951
7 FY 2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 FY 2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9 TOTAL	\$ (47,076)	\$ (143,744)	\$ (206,024)	\$ (163,502)	\$ (141,257)	\$ (134,363)

10 Total FY 2013 through FY 2016 revenue requirement impact \$ (560,347)

- 1 Per Docket No. 4539
- 1(a) Per FY 2013 through FY 2016 Total Net Plant in Service reflected in the vintage year revenue requirement calculations
- 2 Line 1a - Line 1
- 3 Col (a) through Col (f) = Page 12 of 28 , Line 36
- 4 Col (a) through Col (f) = Page 10 of 28 , Line 36
- 5 Col (a) through Col (f) = Page 8 of 28 , Line 36
- 6 Col (a) through Col (f) = Page 6 of 28 , Line 36
- 9 Sum of Lines 3 through 8
- 10 Line 9(a) + Line 9(b) + Line 9(c) + Line 9(d)

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of FY 2018 Net Deferred Tax Reserve Proration

Line No.	Deferred Tax Subject to Proration	(a)=Sum of (b) through (h)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	
		Total	Vintage Year 2018	Vintage Year 2017	Vintage Year 2016	Vintage Year 2015	Vintage Year 2014	Vintage Year 2013	Vintage Year 2012	
1	Book Depreciation	Col (b) = Page 2 of 28, Line 16; Col (c) = Page 4 of 28, Line 15; Col (d) = Page 6 of 28, Line 16; Col (e) = Page 8 of 28, Line 16; Col (f) = Page 10 of 28, Line 16; Col (g) = Page 12 of 28, Line 15; Col (h) = Page 14 of 28, Line 13	\$6,767,472	\$992,555	\$2,122,861	\$1,479,463	\$2,062,926	\$578,263	(\$464,370)	
2	Bonus Depreciation	Page 3 of 28, Line 12	(\$14,192,815)	(\$14,192,815)	\$0	\$0	\$0	\$0	\$0	
3	Remaining MACRS Tax Depreciation	Col (b) = Page 3 of 28, Line 18; Col (c) = Page 5 of 28, Line 18; Col (d) = Page 7 of 28, Line 18; Col (e) = Page 9 of 28, Line 18; Col (f) = Page 11 of 28, Line 18; Col (g) = Page 13 of 28, Line 18; Col (h) = Page 15 of 28, Line 18	(\$7,584,902)	(\$1,618,196)	(\$2,211,545)	(\$1,876,746)	(\$1,814,760)	(242,832)	\$180,604	
4	FY18 tax (gain)/loss on retirements	Page 3 of 28, Line 19	(\$1,760,937)	(\$1,760,937)	\$0	\$0	\$0	\$0	\$0	
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	(\$16,771,182)	(\$16,579,393)	(\$88,684)	(\$397,283)	\$248,166	\$335,430	(\$283,766)	
6	Effective Tax Rate		35.00%	35.00%	35.00%	35.00%	35.00%	35.00%	35.00%	
7	Deferred Tax Reserve	Line 5 * Line 6	(\$5,869,914)	(\$5,802,787)	(\$31,039)	(\$139,049)	\$86,858	\$117,401	(\$99,318)	
Deferred Tax Not Subject to Proration										
8	Capital Repairs Deduction	Page 3 of 28, Line 3	(\$17,498,293)	(\$17,498,293)						
9	Cost of Removal	Page 3 of 28, Line 20	(\$9,646,000)	(\$9,646,000)						
10	Book/Tax Depreciation Timing Difference at 3/31/2017		\$0	\$0						
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	(\$27,144,293)	(\$27,144,293)						
12	Effective Tax Rate		35.00%	35.00%						
13	Deferred Tax Reserve	Line 11 * Line 12	(\$9,500,503)	(\$9,500,503)						
14	Total Deferred Tax Reserve	Line 7 + Line 13	(\$15,370,416)	(\$15,303,290)	(\$31,039)	(\$139,049)	\$86,858	\$117,401	(\$99,318)	
15	Net Operating Loss	Page 2 of 28, Line 21	\$0	\$0						
16	Net Deferred Tax Reserve	Line 14 + Line 15	(\$15,370,416)	(\$15,303,290)	(\$31,039)	(\$139,049)	\$86,858	\$117,401	(\$99,318)	
Allocation of FY 2018 Estimated Federal NOL										
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	(\$16,579,393)	(\$16,579,393)						
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	(\$27,144,293)	(\$27,144,293)						
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	(\$43,723,686)	(\$43,723,686)						
20	Total FY 2018 Federal NOL	(Page 2 of 28, Line 21) / 35%	\$0	\$0						
21	Allocated FY 2018 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0						
22	Allocated FY 2018 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0						
23	Effective Tax Rate		35.00%	35.00%						
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0						
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	(\$5,869,914)	(\$5,802,787)	(\$31,039)	(\$139,049)	\$86,858	\$117,401	(\$99,318)	
		(i)	(j)	(k)= Sum of (l) through (r)						
Proration Calculation		Number of Days in Month	Proration Percentage	(l)	(m)	(n)	(o)	(p)	(q)	(r)
26	April 2017	30	91.78%	(\$448,955)	(\$443,821)	(\$2,374)	(\$10,635)	\$6,643	\$8,979	(\$7,596)
27	May 2017	31	83.29%	(\$407,410)	(\$402,751)	(\$2,154)	(\$9,651)	\$6,029	\$8,148	(\$6,893)
28	June 2017	30	75.07%	(\$367,205)	(\$363,005)	(\$1,942)	(\$8,698)	\$5,434	\$7,344	(\$6,213)
29	July 2017	31	66.58%	(\$325,660)	(\$321,935)	(\$1,722)	(\$7,714)	\$4,819	\$6,513	(\$5,510)
30	August 2017	31	58.08%	(\$284,115)	(\$280,866)	(\$1,502)	(\$6,730)	\$4,204	\$5,682	(\$4,807)
31	September 2017	30	49.86%	(\$243,910)	(\$241,120)	(\$1,290)	(\$5,778)	\$3,609	\$4,878	(\$4,127)
32	October 2017	31	41.37%	(\$202,365)	(\$200,050)	(\$1,070)	(\$4,794)	\$2,994	\$4,047	(\$3,424)
33	November 2017	30	33.15%	(\$162,160)	(\$160,305)	(\$857)	(\$3,841)	\$2,400	\$3,243	(\$2,744)
34	December 2017	31	24.66%	(\$120,615)	(\$119,235)	(\$638)	(\$2,857)	\$1,785	\$2,412	(\$2,041)
35	January 2018	31	16.16%	(\$79,070)	(\$78,165)	(\$418)	(\$1,873)	\$1,170	\$1,581	(\$1,338)
36	February 2018	28	8.49%	(\$41,545)	(\$41,070)	(\$220)	(\$984)	\$615	\$831	(\$703)
37	March 2018	31	0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	Total	365		(\$2,683,006)	(\$2,652,324)	(\$14,187)	(\$63,556)	\$39,701	\$53,661	(\$45,396)
39	Deferred Tax Without Proration	Line 25		(\$5,869,914)	(\$5,802,787)	(\$31,039)	(\$139,049)	\$86,858	\$117,401	(\$99,318)
40	Proration Adjustment	Line 38 - Line 39		\$3,186,907	\$3,150,463	\$16,852	\$75,493	(\$47,157)	(\$63,739)	\$53,922
										\$1,074

Column Notes:

- (j) Sum of remaining days in the year (Col (i)) ÷ 365
(l) through (r) = Current Year Line 25 ÷ 12 * Current Month Col (j)

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of FY 2019 Net Deferred Tax Reserve Proration

			(a)=Sum of (b) through (h)	(b) Vintage Year	(c) Vintage Year	(d) Vintage Year	(e) Vintage Year	(f) Vintage Year	(g) Vintage Year	(h) Vintage Year
Line No.			Total	2018	2017	2016	2015	2014	2013	2012
	Deferred Tax Subject to Proration									
1	Book Depreciation	Col (b) = Page 2 of 28, Line 16; Col (c) = Page 4 of 28, Line 15; Col (d) = Page 6 of 28, Line 16; Col (e) = Page 8 of 28, Line 16; Col (f) = Page 10 of 28, Line 16; Col (g) = Page 12 of 28, Line 15; Col (h) = Page 14 of 28, Line 13	\$7,760,027	\$1,985,110	\$2,122,861	\$1,479,463	\$2,062,926	\$578,263	(\$464,370)	(\$4,227)
2	Bonus Depreciation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Remaining MACRS Tax Depreciation	Col (b) = Page 3 of 28, Line 18; Col (c) = Page 5 of 28, Line 18; Col (d) = Page 7 of 28, Line 18; Col (e) = Page 9 of 28, Line 18; Col (f) = Page 11 of 28, Line 18; Col (g) = Page 13 of 28, Line 18; Col (h) = Page 15 of 28, Line 18	(\$8,634,209)	(\$3,115,135)	(\$2,045,503)	(\$1,736,208)	(\$1,678,440)	(\$224,640)	\$167,038	(\$1,320)
4	FY18 tax (gain)/loss on retirements		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	(\$874,181)	(\$1,130,025)	\$77,358	(\$256,745)	\$384,486	\$353,622	(\$297,333)	(\$5,547)
6	Effective Tax Rate		35.00%	35.00%	35.00%	35.00%	35.00%	35.00%	35.00%	35.00%
7	Deferred Tax Reserve	Line 5 * Line 6	(\$305,963)	(\$395,509)	\$27,075	(\$89,861)	\$134,570	\$123,768	(\$104,066)	(\$1,941)
	Deferred Tax Not Subject to Proration									
8	Capital Repairs Deduction		\$0	\$0						
9	Cost of Removal		\$0	\$0						
10	Book/Tax Depreciation Timing Difference at 3/31/2017		\$0	\$0						
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0						
12	Effective Tax Rate		35.00%	35.00%						
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0						
14	Total Deferred Tax Reserve	Line 7 + Line 13	(\$305,963)	(\$395,509)	\$27,075	(\$89,861)	\$134,570	\$123,768	(\$104,066)	(\$1,941)
15	Net Operating Loss		\$0	\$0						
16	Net Deferred Tax Reserve	Line 14 + Line 15	(\$305,963)	(\$395,509)	\$27,075	(\$89,861)	\$134,570	\$123,768	(\$104,066)	(\$1,941)
	Allocation of FY 2018 Estimated Federal NOL									
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	(\$1,130,025)	(\$1,130,025)						
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0						
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	(\$1,130,025)	(\$1,130,025)						
20	Total FY 2018 Federal NOL		\$0	\$0						
21	Allocated FY 2018 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0						
22	Allocated FY 2018 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0						
23	Effective Tax Rate		35.00%	35.00%						
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0						
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	(\$305,963)	(\$395,509)	\$27,075	(\$89,861)	\$134,570	\$123,768	(\$104,066)	(\$1,941)
		(i) (j)								
	Proration Calculation	Number of Days in Month Proration Percentage	(k)= Sum of (l) through (r)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
26	April 2017	30 91.78%	(\$23,401)	(\$30,250)	\$2,071	(\$6,873)	\$10,292	\$9,466	(\$7,959)	(\$148)
27	May 2017	31 83.29%	(\$21,236)	(\$27,451)	\$1,879	(\$6,237)	\$9,340	\$8,590	(\$7,223)	(\$135)
28	June 2017	30 75.07%	(\$19,140)	(\$24,742)	\$1,694	(\$5,621)	\$8,418	\$7,743	(\$6,510)	(\$121)
29	July 2017	31 66.58%	(\$16,975)	(\$21,943)	\$1,502	(\$4,985)	\$7,466	\$6,867	(\$5,774)	(\$108)
30	August 2017	31 58.08%	(\$14,809)	(\$19,143)	\$1,310	(\$4,349)	\$6,513	\$5,991	(\$5,037)	(\$94)
31	September 2017	30 49.86%	(\$12,714)	(\$16,434)	\$1,125	(\$3,734)	\$5,592	\$5,143	(\$4,324)	(\$81)
32	October 2017	31 41.37%	(\$10,548)	(\$13,635)	\$933	(\$3,098)	\$4,639	\$4,267	(\$3,588)	(\$67)
33	November 2017	30 33.15%	(\$8,452)	(\$10,926)	\$748	(\$2,482)	\$3,718	\$3,419	(\$2,875)	(\$54)
34	December 2017	31 24.66%	(\$6,287)	(\$8,127)	\$556	(\$1,846)	\$2,765	\$2,543	(\$2,138)	(\$40)
35	January 2018	31 16.16%	(\$4,121)	(\$5,328)	\$365	(\$1,210)	\$1,813	\$1,667	(\$1,402)	(\$26)
36	February 2018	28 8.49%	(\$2,165)	(\$2,799)	\$192	(\$636)	\$952	\$876	(\$737)	(\$14)
37	March 2018	31 0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	Total	365	(\$139,849)	(\$180,778)	\$12,376	(\$41,073)	\$61,509	\$56,572	(\$47,566)	(\$887)
39	Deferred Tax Without Proration	Line 25	(\$305,963)	(\$395,509)	\$27,075	(\$89,861)	\$134,570	\$123,768	(\$104,066)	(\$1,941)
40	Proration Adjustment	Line 38 - Line 39	\$166,114	\$214,730	(\$14,700)	\$48,787	(\$73,061)	(\$67,196)	\$56,500	\$1,054

Column Notes:

(j) Sum of remaining days in the year (Col (i)) ÷ 365

(l) through (r) = Current Year Line 25 ÷ 12 * Current Month Col (j)

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Excess Deferred Taxes

Line No.	Vintage Year	Cumulative Book		Cumulative Book		Difference	Pro-Rated Change as of 12/31/17 (d)= (c) * 75%	Cumulative Timing Difference through 12/31/17 (e)= (a) + (d)	Excess Deferred Taxes at 12/31/17 (f) = (e) *14%
		Tax Timing Difference at 3/31/17 (a)	Tax Timing Difference at 3/31/18 (b)	Tax Timing Difference at 3/31/18 (b)	Tax Timing Difference at 3/31/18 (b)				
1	2012	\$ (622,650)	\$ (616,996)	\$ (616,996)	\$ (616,996)	\$ 5,653	\$ 4,240	\$ (618,410)	\$ (86,577)
2	2013	\$ (5,323,191)	\$ (5,039,425)	\$ (5,039,425)	\$ (5,039,425)	\$ 283,766	\$ 212,824	\$ (5,110,367)	\$ (715,451)
3	2014	\$ 6,655,614	\$ 6,320,184	\$ 6,320,184	\$ 6,320,184	\$ (335,430)	\$ (251,573)	\$ 6,404,042	\$ 896,566
4	2015	\$ 70,796,254	\$ 70,548,087	\$ 70,548,087	\$ 70,548,087	\$ (248,166)	\$ (186,125)	\$ 70,610,129	\$ 9,885,418
5	2016	\$ 54,693,786	\$ 55,091,068	\$ 55,091,068	\$ 55,091,068	\$ 397,283	\$ 297,962	\$ 54,991,748	\$ 7,698,845
6	2017	\$ 59,491,257	\$ 59,579,941	\$ 59,579,941	\$ 59,579,941	\$ 88,684	\$ 66,513	\$ 59,557,770	\$ 8,338,088
7	2018	\$ -	\$ 43,723,686	\$ 43,723,686	\$ 43,723,686	\$ 43,723,686	\$ 32,792,764	\$ 32,792,764	\$ 4,590,987

Line Notes

- 1(a) Page 16, Line 15(f)
- 1(b) Page 16, Line 15(h)
- 2(a) Page 14, Line 17(e)
- 2(b) Page 14, Line 17(g)
- 3(a) Page 12, Line 18(d)
- 3(b) Page 12, Line 18(f)
- 4(a) Page 10 Line 18(c)
- 4(b) Page 10, Line 18(e)
- 5(a) Page 8, Line 18(b)
- 5(b) Page 8, Line 18(d)
- 6(a) Page 6, Line 18(a)
- 6(b) Page 6, Line 18(b)
- 7(b) Page 4, Line 18(a)

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Calculation of Weighted Average Cost of Capital

Line
No.

1	Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 4065					
2		(a)	(b)	(c)	(d)	(e)
3		Ratio	Rate	Rate	Taxes	Return
4	Long Term Debt	52.08%	5.30%	2.76%		2.76%
5	Short Term Debt	4.98%	1.60%	0.08%		0.08%
6	Preferred Stock	0.19%	4.50%	0.01%		0.01%
7	Common Equity	42.75%	9.80%	4.19%	2.26%	6.45%
8		100.00%		7.04%	2.26%	9.30%

9					
10	Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 4323 at 35%				
11		(a)	(b)	(c)	(d)
12		Ratio	Rate	Rate	Taxes
13	Long Term Debt	49.95%	4.96%	2.48%	
14	Short Term Debt	0.76%	0.79%	0.01%	
15	Preferred Stock	0.15%	4.50%	0.01%	
16	Common Equity	49.14%	9.50%	4.67%	2.51%
17		100.00%		7.17%	2.51%

18

19 (d) - Column (c) x 35% divided by (1 - 35%)

20

21	Weighted Average Cost of Capital as approved in R.I.P.U.C. Docket No. 4323 at 21%					
22		Ratio	Rate	Rate	Taxes	Return
23	Long Term Debt	49.95%	4.96%	2.48%		2.48%
24	Short Term Debt	0.76%	0.79%	0.01%		0.01%
25	Preferred Stock	0.15%	4.50%	0.01%		0.01%
26	Common Equity	49.14%	9.50%	4.67%	1.24%	5.91%
27		100.00%		7.17%	1.24%	8.41%

28

29 (d) - Column (c) x 21% divided by (1 - 21%)

30

31 FY18 Blended Rate 9.36%

32 Line 17(e) x 75% + Line 27(e) x 25%

The Narragansett Electric Company
d/b/a National Grid
Electric Infrastructure, Safety, and Reliability (ISR) Plan
Annual Revenue Requirement Summary

Line No.		As Approved		
		Fiscal Year	Fiscal Year	Fiscal Year
		<u>2018</u> (a)	<u>2019</u> (b)	<u>2020</u> (c)
	<u>Operation and Maintenance (O&M) Expenses:</u>			
1	Current Year Vegetation Management (VM)	\$9,400,000	\$9,800,000	
2	Current Year Inspection & Maintenance (I&M)	\$1,069,800	\$867,000	
3	Current Year Other Programs		\$1,369,000	
4	Electric Contact Voltage expenses included in RIPUC Docket No. 4323	(\$163,749)	(\$163,749)	
5	Total O&M Expense Component of Revenue Requirement	\$10,306,051	\$11,872,251	
	<u>Capital Investment:</u>			
6	Actual Revenue Requirement on Incremental FY 2012 Capital included in ISR Rate Base	\$268,500	\$231,828	\$232,231
7	Actual Revenue Requirement on Incremental FY 2013 Capital included in ISR Rate Base	(\$1,074,896)	(\$960,140)	(\$910,114)
8	Actual Revenue Requirement on Incremental FY 2014 Capital included in ISR Rate Base	\$706,927	\$645,661	\$603,144
9	Actual Revenue Requirement on FY 2015 Capital included in ISR Rate Base	\$3,758,934	\$3,366,174	\$3,198,488
10	Actual Revenue Requirement on FY 2016 Capital included in ISR Rate Base	\$3,967,711	\$3,354,459	\$3,225,807
11	Actual Revenue Requirement on FY 2017 Capital included in ISR Rate Base	\$4,415,399	\$3,189,241	\$3,034,888
12	Actual Revenue Requirement on FY 2018 Capital included in ISR Rate Base	\$2,267,653	\$4,277,937	\$3,967,781
13	Actual Revenue Requirement on FY 2019 Capital included in ISR Rate Base	\$0	\$3,239,642	\$6,353,418
14	Subtotal	\$14,310,230	\$17,344,802	\$19,705,643
15	FY 2018 Property Tax Recovery Adjustment	\$3,906,950		
16	FY 2019 Property Tax Recovery Adjustment		\$2,839,351	
17	True-Up for FY 2012 through FY 2016 Transmission - Related Net Operating Losses ("NOL")	(\$1,125,115)	\$0	
18	True-Up for FY 2013 through FY 2016 Work Order Write Off Adjustment: Capital Investment	(\$560,347)	\$0	
19	True-Up for FY 2013 through FY 2016 Work Order Write Off Adjustment: Property Tax	(\$589)	\$0	
20	Total Capital Investment Component of Revenue Requirement	\$16,531,128	\$20,184,153	
21	Less FY2018 Revenue Requirement Updated with Tax Changes		(\$95,684)	
22	Total Capital Expenditures Revenue Requirement		\$20,088,470	
23	Total Fiscal Year Revenue Requirement	\$26,837,179	\$31,960,721	
24	Total Updated Fiscal Year Rate Adjustment		\$5,123,541	

Column (a) - as Approved per RIPUC Docket No. 4682

Column (b)

- 1 Vegetation Management per Section 3, Chart 2
- 2 Inspection & Maintenance per Section 4, Chart 1
- 3 Other Program Expense per Section 4, Chart 2
- 5 Sum of Lines 1 through 4
- 6 Per Attachment DIV 2-1-2, Page 16 of 29, Line 31
- 7 Per Attachment DIV 2-1-2, Page 14 of 29, Line 38
- 8 Per Attachment DIV 2-1-2, Page 12 of 29, Line 33
- 9 Per Attachment DIV 2-1-2, Page 10 of 29, Line 33
- 10 Per Attachment DIV 2-1-2, Page 8 of 29, Line 33
- 11 Per Attachment DIV 2-1-2, Page 6 of 29, Line 33
- 12 Per Attachment DIV 2-1-2, Page 4 of 29, Line 33
- 13 Per Attachment DIV 2-1-2, Page 2 of 29, Line 33
- 14 Sum of Lines 6 through 13
- 16 Per Attachment DIV 2-1-2, Page 21 of 29, Line 128
- 20 Sum of Lines 14 through 19
- 22 Line 20 + Line 21
- 23 Line 5 + Line 22
- 24 Current Year Line 23 - Prior Year Line 23

The Narragansett Electric Company
d/b/a National Grid
FY2019 Electric Infrastructure, Safety,
and Reliability Plan
Attachment PUC 3-2-3
Page 1 of 4

The Narragansett Electric Company
Infrastructure, Safety and Reliability Plan Factors
Summary of Proposed Factors
Effective April 1, 2018 - March 31, 2019

	Residential <u>A-16 / A-60</u> (a)	Small C&I <u>C-06</u> (b)	General C&I <u>G-02</u> (c)	200 kW Demand <u>B-32</u> (d)	200 kW Demand <u>G-32</u> (e)	5000 kW Demand <u>B-62</u> (f)	5000 kW Demand <u>G-62</u> (g)	Lighting S-05 / S-06 <u>S-10 / S-14</u> (h)	Propulsion <u>X-01</u> (i)
(1) O&M Factor per kWh	\$0.00193	\$0.00195	\$0.00142	\$0.00092	\$0.00092	n/a	n/a	\$0.01898	\$0.00142
(2) O&M Factor per kW	n/a	n/a	n/a	n/a	n/a	n/a	\$0.45	n/a	n/a
(3) Back-Up Service O&M Factor per kW	n/a	n/a	n/a	\$0.05	n/a	\$0.04	n/a	n/a	n/a
(4) CapEx kWh Factor	\$0.00359	\$0.00325	n/a	n/a	n/a	n/a	n/a	\$0.02237	\$0.00263
(5) CapEx kW Factor	n/a	n/a	\$0.81	\$0.88	\$0.88	\$0.73	\$0.73	n/a	n/a
(6) Back-Up Service CapEx kW Factor	n/a	n/a	n/a	\$0.09	n/a	\$0.07	n/a	n/a	n/a

- (1) Page 2, Line (6); Column (d) applicable to supplemental kWh deliveries only
(2) Page 2, Column (f), Line (8)
(3) Page 4, Line (4)
(4) Page 3, Line (6)
(5) Columns (c), through (g): Page 3, Line (8); Columns (d) and (f): applicable to supplemental service only
(6) Page 4, Line (6)

The Narragansett Electric Company
Proposed FY19 Operations & Maintenance Factors
Effective April 1, 2018 - March 31, 2019

	<u>Total</u> (a)	<u>Residential</u> <u>A-16 / A60</u> (b)	<u>Small C&I</u> <u>C-06</u> (c)	<u>General C&I</u> <u>G-02</u> (d)	<u>200 kW Demand</u> <u>B-32 / G-32</u> (e)	<u>5000 kW Demand</u> <u>B-62 / G-62</u> (f)	<u>Lighting</u> <u>S-05 / S-06</u> <u>S-10 / S-14</u> (g)	<u>Propulsion</u> <u>X-01</u> (h)
(1) FY2019 Forecasted Vegetation Management and Inspection & Maintenance O&M Expense	\$11,872,251							
(2) Operating & Maintenance Expense - Rate Year Allowance (\$000s)	\$35,640	\$17,115	\$3,503	\$5,508	\$5,438	\$1,306	\$2,668	\$102
(3) Percentage of Total	100.00%	48.02%	9.83%	15.45%	15.26%	3.66%	7.49%	0.29%
(4) Allocated Vegetation Management and Inspection & Maintenance O&M Expense	\$11,872,251	\$5,701,279	\$1,166,905	\$1,834,802	\$1,811,484	\$435,049	\$888,753	\$33,978
(5) Forecasted kWh - April 2018 through March 2019	7,292,662,088	2,952,217,339	598,406,291	1,290,644,353	1,958,411,647	422,246,350	46,812,226	23,923,882
(6) Vegetation Management and Inspection & Maintenance O&M Expense Factor per kWh		\$0.00193	\$0.00195	\$0.00142	\$0.00092	n/a	\$0.01898	\$0.00142
(7) Forecasted kW - April 2018 through March 2019						950,923		
(8) Vegetation Management and Inspection & Maintenance O&M Expense Factor per kW		n/a	n/a	n/a	n/a	\$0.45	n/a	n/a

- (1) per Revised Section 5: Attachment 1S, Page 1, Line 5 column (b)
(2) R.I.P.U.C. 4323, Compliance Attachment 3A, (Schedule HSG-1), page 4, line 72
(3) Line (2) ÷ Line (2) Column (a)
(4) Line (1) Column (a) x Line (3)
(5) Company forecasts
(6) Line (4) ÷ Line (5), truncated to 5 decimal places
(7) per estimated billing demand in forecasted kWh, and actual hours use for CY 2017
(8) Line (4) ÷ Line (7), truncated to 2 decimal places

The Narragansett Electric Company
Proposed FY19 CapEx Factors
Effective April 1, 2018 - March 31, 2019

	Total (a)	Residential <u>A-16 / A-60</u> (b)	Small C&I <u>C-06</u> (c)	General C&I <u>G-02</u> (d)	200 kW Demand <u>B-32 / G-32</u> (e)	5000 kW Demand <u>B-62 / G-62</u> (f)	Lighting S-05 / S-06 <u>S-10 / S-14</u> (g)	Propulsion <u>X-01</u> (h)
(1) Proposed FY2019 Capital Investment Component of Revenue Requirement	\$20,088,469							
(2) Total Rate Base (\$000s)	\$561,738	\$296,490	\$54,542	\$82,460	\$77,651	\$19,545	\$29,286	\$1,764
(3) Percentage of Total	100.00%	52.78%	9.71%	14.68%	13.82%	3.48%	5.21%	0.31%
(4) Allocated Proposed Revenue Requirement	\$20,088,469	\$10,602,844	\$1,950,493	\$2,948,874	\$2,776,903	\$698,956	\$1,047,316	\$63,083
(5) Forecasted kWh - April 2018 through March 2019	7,292,662,088	2,952,217,339	598,406,291	1,290,644,353	1,958,411,647	422,246,350	46,812,226	23,923,882
(6) Proposed CapEx Factor - per kWh		\$0.00359	\$0.00325	n/a	n/a	n/a	\$0.02237	\$0.00263
(7) Forecasted kW - April 2018 through March 2019				3,620,514	3,125,694	950,923		
(8) Proposed CapEx Factor - per kW		n/a	n/a	\$0.81	\$0.88	\$0.73	n/a	n/a

- (1) per Attachment 3-2-2, Page 1, Line 22, Column (b)
(2) R.I.P.U.C. 4323, Compliance Attachment 3A, (Schedule HSG-1), Page 2, Line (10)
(3) Line (2) ÷ Line (2) Column (a)
(4) Line (1), Column (a) x Line (3)
(5) per Company forecast
(6) Line (4) ÷ Line (5), truncated to 5 decimal places
(7) per estimated billing demand in forecasted kWh, and actual hours use for CY 2017
(8) Line (4) ÷ Line (7), truncated to 2 decimal places
Note: charges apply to kW > 10 for rate class G-02 and kW > 200 for rate class B-32/G-32

The Narragansett Electric Company
Calculation of Operations & Maintenance and CapEx Factors and
Base Distribution Charge for Back-up Service Rates

	200 kW Demand <u>B-32</u> (a)	5000 kW Demand <u>B-62</u> (b)
<u>Operations & Maintenance Factors</u>		
(1) Allocated Vegetation Management and Inspection & Maintenance O&M Expense	\$1,811,484	\$435,049
(2) Forecasted kW - April 2018 through March 2019	3,125,694	950,923
(3) Vegetation Management and Inspection & Maintenance O&M Expense Charge per kW	\$0.57	\$0.45
(4) Discounted O&M kW Factor effective April 1, 2018	\$0.05	\$0.04
<u>CapEx Factors</u>		
(5) Proposed CapEx kW Factor effective April 1, 2018	\$0.88	\$0.73
(6) Discounted CapEx kW Factor effective April 1, 2018	\$0.09	\$0.07

- (1) Page 2, Line (4)
- (2) per estimated billing demand in forecasted kWh, and actual hours use for CY 2017
- (3) Line (1) ÷ Line (2), truncated to 2 decimal places
- (4) Line (3) x .10, truncated to 2 decimal places
- (5) Page 3, Line (8)
- (6) Line (5) x .10, truncated to 2 decimal places

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to A-16 Rate Customers

Monthly kWh (a)	Present Rates			Proposed Rates			\$ Increase (Decrease)			Increase (Decrease) % of Total Bill			Percentage of Customers (n)				
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)		Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)
150	\$20.36	\$14.27	\$1.44	\$36.07	\$20.52	\$14.27	\$1.45	\$36.24	\$0.16	\$0.00	\$0.01	\$0.17	0.4%	0.0%	0.0%	0.5%	30.1%
300	\$34.14	\$28.55	\$2.61	\$65.30	\$34.44	\$28.55	\$2.62	\$65.61	\$0.30	\$0.00	\$0.01	\$0.31	0.5%	0.0%	0.0%	0.5%	12.9%
400	\$43.32	\$38.06	\$3.39	\$84.77	\$43.73	\$38.06	\$3.41	\$85.20	\$0.41	\$0.00	\$0.02	\$0.43	0.5%	0.0%	0.0%	0.5%	11.6%
500	\$52.51	\$47.58	\$4.17	\$104.26	\$53.01	\$47.58	\$4.19	\$104.78	\$0.50	\$0.00	\$0.02	\$0.52	0.5%	0.0%	0.0%	0.5%	9.6%
600	\$61.69	\$57.09	\$4.95	\$123.73	\$62.29	\$57.09	\$4.97	\$124.35	\$0.60	\$0.00	\$0.02	\$0.62	0.5%	0.0%	0.0%	0.5%	7.7%
700	\$70.87	\$66.61	\$5.73	\$143.21	\$71.58	\$66.61	\$5.76	\$143.95	\$0.71	\$0.00	\$0.03	\$0.74	0.5%	0.0%	0.0%	0.5%	19.0%
1,200	\$116.79	\$114.18	\$9.62	\$240.59	\$118.00	\$114.18	\$9.67	\$241.85	\$1.21	\$0.00	\$0.05	\$1.26	0.5%	0.0%	0.0%	0.5%	6.8%
2,000	\$190.25	\$190.30	\$15.86	\$396.41	\$192.27	\$190.30	\$15.94	\$398.51	\$2.02	\$0.00	\$0.08	\$2.10	0.5%	0.0%	0.0%	0.5%	2.3%

Present Rates

Proposed Rates

Line Item on Bill

(1) Distribution Customer Charge	(o)	(p)	
(2) LIHEAP Enhancement Charge	\$5.00	\$5.00	Customer Charge
(3) Renewable Energy Growth Charge	\$0.81	\$0.81	LIHEAP Enhancement Charge
(4) Distribution Charge (per kWh)	\$0.78	\$0.78	RE Growth Program
(5) Operating & Maintenance Expense Charge	\$0.03664	\$0.03664	
(6) Operating & Maintenance Expense Reconciliation Factor	\$0.00163	\$0.00193	
(7) CapEx Factor Charge	(\$0.00001)	(\$0.00001)	
(8) CapEx Reconciliation Factor	\$0.00288	\$0.00359	Distribution Energy Charge
(9) Revenue Decoupling Adjustment Factor	(\$0.00135)	(\$0.00135)	
(10) Pension Adjustment Factor	\$0.00118	\$0.00118	
(11) Storm Fund Replenishment Factor	(\$0.00085)	(\$0.00085)	
(12) Long-term Contracting for Renewable Energy Charge	\$0.00288	\$0.00288	
(13) Net Metering Charge	\$0.00622	\$0.00622	Renewable Energy Distribution Charge
(14) Base Transmission Charge	\$0.00023	\$0.00023	
(15) Transmission Adjustment Factor	\$0.03169	\$0.03169	
(16) Transmission Uncollectible Factor	(\$0.00029)	(\$0.00029)	Transmission Charge
(17) Base Transition Charge	\$0.00039	\$0.00039	
(18) Transition Adjustment	\$0.00009	\$0.00009	Transition Charge
(19) Energy Efficiency Program Charge	\$0.00048	\$0.00048	
(20) Standard Offer Service Base Charge	\$0.01002	\$0.01002	Energy Efficiency Programs
(21) SOS Adjustment Factor	\$0.09792	\$0.09792	
(22) SOS Administrative Cost Adjustment Factor	(\$0.00465)	(\$0.00465)	
(23) Renewable Energy Standard Charge	\$0.00148	\$0.00148	Supply Services Energy Charge
	\$0.00040	\$0.00040	

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Column (p):

Lines (1) through (4), (6), (8) through (19): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/1/2018. Lines (20) through (23): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Line (5): Proposed Operating & Maintenance Expense Charge per Revised Section 6, Page 1, Line (1), Column (a)

Line (7): Illustrative CapEx Factor Charge per Attachment 3-2-3, Page 1, Line (4), Column (a)

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)				Increase (Decrease) % of Total Bill				Percentage of Customers (n)
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)	
150	\$13.34	\$14.27	\$1.15	\$28.76	\$13.50	\$14.27	\$1.16	\$28.93	\$0.16	\$0.00	\$0.01	\$0.17	0.6%	0.0%	0.0%	0.6%	32.1%
300	\$25.10	\$28.55	\$2.24	\$55.89	\$25.40	\$28.55	\$2.25	\$56.20	\$0.30	\$0.00	\$0.01	\$0.31	0.5%	0.0%	0.0%	0.6%	15.4%
400	\$32.93	\$38.06	\$2.96	\$73.95	\$33.34	\$38.06	\$2.98	\$74.38	\$0.41	\$0.00	\$0.02	\$0.43	0.6%	0.0%	0.0%	0.6%	12.5%
500	\$40.77	\$47.58	\$3.68	\$92.03	\$41.28	\$47.58	\$3.70	\$92.56	\$0.51	\$0.00	\$0.02	\$0.53	0.6%	0.0%	0.0%	0.6%	9.6%
600	\$48.61	\$57.09	\$4.40	\$110.10	\$49.21	\$57.09	\$4.43	\$110.73	\$0.60	\$0.00	\$0.03	\$0.63	0.5%	0.0%	0.0%	0.6%	7.2%
700	\$56.44	\$66.61	\$5.13	\$128.18	\$57.15	\$66.61	\$5.16	\$128.92	\$0.71	\$0.00	\$0.03	\$0.74	0.6%	0.0%	0.0%	0.6%	16.4%
1,200	\$95.62	\$114.18	\$8.74	\$218.54	\$96.83	\$114.18	\$8.79	\$219.80	\$1.21	\$0.00	\$0.05	\$1.26	0.6%	0.0%	0.0%	0.6%	5.2%
2,000	\$158.31	\$190.30	\$14.53	\$363.14	\$160.33	\$190.30	\$14.61	\$365.24	\$2.02	\$0.00	\$0.08	\$2.10	0.6%	0.0%	0.0%	0.6%	1.6%

	Present Rates		Proposed Rates		Line Item on Bill	
	(o)	(p)	(o)	(p)		
(1) Distribution Customer Charge	\$0.00	\$0.00			Customer Charge	
(2) LIHEAP Enhancement Charge	\$0.81	\$0.81			LIHEAP Enhancement Charge	
(3) Renewable Energy Growth Charge	\$0.78	\$0.78			Renewable Energy Growth Charge	
(4) Distribution Charge (per kWh)	\$0.02317	\$0.02317				
(5) Operating & Maintenance Expense Charge	\$0.00163	\$0.00193				
(6) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)	(\$0.00001)				
(7) FY18 CapEx Factor Charge	\$0.00288	\$0.00359				
(8) CapEx Reconciliation Factor	(\$0.00135)	(\$0.00135)			Distribution Energy Charge	
(9) Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118				
(10) Pension Adjustment Factor	(\$0.00085)	(\$0.00085)				
(11) Storm Fund Replenishment Factor	\$0.00288	\$0.00288				
(12) Long-term Contracting for Renewable Energy Charge	\$0.00622	\$0.00622			Renewable Energy Distribution Charge	
(13) Net Metering Charge	\$0.00023	\$0.00023				
(14) Base Transmission Charge	\$0.03169	\$0.03169			Transmission Charge	
(15) Transmission Adjustment Factor	(\$0.00029)	(\$0.00029)				
(16) Transmission Uncollectible Factor	\$0.00039	\$0.00039				
(17) Base Transition Charge	\$0.00009	\$0.00009			Transition Charge	
(18) Transition Adjustment	\$0.00048	\$0.00048			Energy Efficiency Programs	
(19) Energy Efficiency Program Charge	\$0.01002	\$0.01002				
(20) Standard Offer Service Base Charge	\$0.09792	\$0.09792				
(21) SOS Adjustment Factor	(\$0.00465)	(\$0.00465)			Supply Services Energy Charge	
(22) SOS Administrative Cost Adjustment Factor	\$0.00148	\$0.00148				
(23) Renewable Energy Standard Charge	\$0.00040	\$0.00040				

(24) Customer Charge	\$0.00	\$0.00
(25) LIHEAP Enhancement Charge	\$0.81	\$0.81
(26) RE Growth Program	\$0.78	\$0.78
(27) Transmission Charge	\$0.03179	\$0.03179
(28) Distribution Energy Charge	\$0.02953	\$0.03054
(29) Transition Charge	\$0.00057	\$0.00057
(30) Energy Efficiency Programs	\$0.01002	\$0.01002
(31) Renewable Energy Distribution Charge	\$0.00645	\$0.00645
(32) Supply Services Energy Charge	\$0.09515	\$0.09515

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2005 effective 1/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2006, effective 1/1/2018
Column (p):
Lines (1) through (4), (6), (8) through (19): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2005, effective 1/1/2018. Lines (20) through (23): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2006, effective 1/1/2018
Line (5): Proposed Operating & Maintenance Expense Charge per Revised Section 6, Page 1, Line (1), Column (a)
Line (7): Illustrative CapEx Factor Charge per Attachment 3-2-3, Page 1, Line (4), Column (a)

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to C-06 Rate Customers

Monthly kWh (a)	Present Rates			Proposed Rates			\$ Increase (Decrease)			Increase (Decrease) % of Total Bill			Percentage of Customers (n)				
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)		Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)
250	\$33.16	\$23.38	\$2.36	\$58.90	\$33.36	\$23.38	\$2.36	\$59.10	\$0.20	\$0.00	\$0.00	\$0.20	0.3%	0.0%	0.0%	0.3%	56.3%
500	\$54.24	\$46.75	\$4.21	\$105.20	\$54.65	\$46.75	\$4.23	\$105.63	\$0.41	\$0.00	\$0.02	\$0.43	0.4%	0.0%	0.0%	0.4%	16.9%
1,000	\$96.41	\$93.50	\$7.91	\$197.82	\$97.23	\$93.50	\$7.95	\$198.68	\$0.82	\$0.00	\$0.04	\$0.86	0.4%	0.0%	0.0%	0.4%	8.1%
1,500	\$138.58	\$140.25	\$11.62	\$290.45	\$139.81	\$140.25	\$11.67	\$291.73	\$1.23	\$0.00	\$0.05	\$1.28	0.4%	0.0%	0.0%	0.4%	5.0%
2,000	\$180.75	\$187.00	\$15.52	\$383.07	\$182.39	\$187.00	\$15.39	\$384.78	\$1.64	\$0.00	\$0.07	\$1.71	0.4%	0.0%	0.0%	0.4%	13.6%

	Present Rates (o)			Proposed Rates (p)			Line Item on Bill		
	Delivery Services	Supply Services	GET	Total	Delivery Services	Supply Services	GET	Total	Line Item on Bill
(1) Distribution Customer Charge									Customer Charge
(2) LIHEAP Enhancement Charge									RE Growth Program
(3) Renewable Energy Growth Charge									LIHEAP Enhancement Charge
(4) Distribution Charge (per kWh)									
(5) Operating & Maintenance Expense Charge									
(6) Operating & Maintenance Expense Reconciliation Factor									
(7) FY18 CapEx Factor Charge									
(8) CapEx Reconciliation Factor									
(9) Revenue Decoupling Adjustment Factor									Distribution Energy Charge
(10) Pension Adjustment Factor									
(11) Storm Fund Replenishment Factor									
(12) Long-term Contracting for Renewable Energy Charge									Renewable Energy Distribution Charge
(13) Net Metering Charge									
(14) Base Transmission Charge									
(15) Transmission Adjustment Factor									Transmission Charge
(16) Transmission Uncollectible Factor									
(17) Base Transition Charge									Transition Charge
(18) Transition Adjustment									
(19) Energy Efficiency Program Charge									Energy Efficiency Programs
(20) Standard Offer Service Base Charge									
(21) SOS Adjustment Factor									
(22) SOS Administrative Cost Adjustment Factor									Supply Services Energy Charge
(23) Renewable Energy Standard Charge									
Line Item on Bill									
(24) Customer Charge									
(25) LIHEAP Enhancement Charge									
(26) RE Growth Program									
(27) Transmission Charge									
(28) Distribution Energy Charge									
(29) Transition Charge									
(30) Energy Efficiency Programs									
(31) Renewable Energy Distribution Charge									
(32) Supply Services Energy Charge									

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2005 effective 1/11/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2006, effective 1/1/2018
Column (p):

Lines (1) through (4), (6), (8) through (19): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2005, effective 1/11/2018. Lines (20) through (23): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2006, effective 1/1/2018
Line (5): Proposed Operating & Maintenance Expense Charge per Revised Section 6, Page 1, Line 1, Column (b)
Line (7): Illustrative CapEx Factor Charge per Attachment 3-2-3, Page 1, Line 4, Column (b)

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

KW	Monthly Power Hours Use	Present Rates				Proposed Rates				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill			
		Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)
20	200	\$434.74	\$374.00	\$33.70	\$842.44	\$436.94	\$374.00	\$33.79	\$844.73	\$2.20	\$0.00	\$0.09	\$2.29	0.3%	0.0%	0.0%	0.3%
50	200	\$948.16	\$935.00	\$78.47	\$1,961.63	\$955.76	\$935.00	\$78.78	\$1,969.54	\$7.60	\$0.00	\$0.31	\$7.91	0.4%	0.0%	0.0%	0.4%
100	200	\$1,803.86	\$1,870.00	\$153.08	\$3,826.94	\$1,820.46	\$1,870.00	\$153.77	\$3,844.23	\$16.60	\$0.00	\$0.69	\$17.29	0.4%	0.0%	0.0%	0.5%
150	200	\$2,659.56	\$2,805.00	\$227.69	\$5,692.25	\$2,685.16	\$2,805.00	\$228.76	\$5,718.92	\$25.60	\$0.00	\$1.07	\$26.67	0.4%	0.0%	0.0%	0.5%
20	300	\$506.98	\$561.00	\$44.50	\$1,112.48	\$509.58	\$561.00	\$44.61	\$1,115.19	\$2.60	\$0.00	\$0.11	\$2.71	0.2%	0.0%	0.0%	0.2%
50	300	\$1,128.76	\$1,402.50	\$105.47	\$2,636.73	\$1,137.36	\$1,402.50	\$105.83	\$2,645.69	\$8.60	\$0.00	\$0.36	\$8.96	0.3%	0.0%	0.0%	0.3%
100	300	\$2,165.06	\$2,805.00	\$207.09	\$5,177.15	\$2,183.66	\$2,805.00	\$207.86	\$5,196.52	\$18.60	\$0.00	\$0.77	\$19.37	0.4%	0.0%	0.0%	0.4%
150	300	\$3,201.36	\$4,207.50	\$308.70	\$7,717.56	\$3,229.96	\$4,207.50	\$309.89	\$7,747.35	\$28.60	\$0.00	\$1.19	\$29.79	0.4%	0.0%	0.0%	0.4%
20	400	\$579.22	\$748.00	\$55.30	\$1,382.52	\$582.22	\$748.00	\$55.43	\$1,385.65	\$3.00	\$0.00	\$0.13	\$3.13	0.2%	0.0%	0.0%	0.2%
50	400	\$1,309.36	\$1,870.00	\$132.47	\$3,311.83	\$1,318.96	\$1,870.00	\$132.87	\$3,321.83	\$9.60	\$0.00	\$0.40	\$10.00	0.3%	0.0%	0.0%	0.3%
100	400	\$2,526.26	\$3,740.00	\$261.09	\$6,527.35	\$2,546.86	\$3,740.00	\$261.95	\$6,548.81	\$20.60	\$0.00	\$0.86	\$21.46	0.3%	0.0%	0.0%	0.3%
150	400	\$3,743.16	\$5,610.00	\$389.72	\$9,742.88	\$3,774.76	\$5,610.00	\$391.03	\$9,775.79	\$31.60	\$0.00	\$1.31	\$32.91	0.3%	0.0%	0.0%	0.3%
20	500	\$651.46	\$935.00	\$66.10	\$1,652.56	\$654.86	\$935.00	\$66.24	\$1,656.10	\$3.40	\$0.00	\$0.14	\$3.54	0.2%	0.0%	0.0%	0.2%
50	500	\$1,489.96	\$2,337.50	\$159.48	\$3,986.94	\$1,500.56	\$2,337.50	\$159.92	\$3,997.98	\$10.60	\$0.00	\$0.44	\$11.04	0.3%	0.0%	0.0%	0.3%
100	500	\$2,887.46	\$4,675.00	\$315.10	\$7,877.56	\$2,910.06	\$4,675.00	\$316.04	\$7,901.10	\$22.60	\$0.00	\$0.94	\$23.54	0.3%	0.0%	0.0%	0.3%
150	500	\$4,284.96	\$7,012.50	\$470.73	\$11,768.19	\$4,319.56	\$7,012.50	\$472.17	\$11,804.23	\$34.60	\$0.00	\$1.44	\$36.04	0.3%	0.0%	0.0%	0.3%
20	600	\$725.70	\$1,122.00	\$76.90	\$1,922.60	\$727.50	\$1,122.00	\$77.06	\$1,926.56	\$3.80	\$0.00	\$0.16	\$3.96	0.2%	0.0%	0.0%	0.2%
50	600	\$1,670.56	\$2,805.00	\$186.48	\$4,662.04	\$1,682.16	\$2,805.00	\$186.97	\$4,674.13	\$11.60	\$0.00	\$0.49	\$12.09	0.2%	0.0%	0.0%	0.3%
100	600	\$3,248.66	\$5,610.00	\$369.11	\$9,227.77	\$3,273.26	\$5,610.00	\$370.14	\$9,253.40	\$24.60	\$0.00	\$1.03	\$25.63	0.3%	0.0%	0.0%	0.3%
150	600	\$4,826.76	\$8,415.00	\$551.74	\$13,793.50	\$4,864.36	\$8,415.00	\$553.31	\$13,832.67	\$37.60	\$0.00	\$1.57	\$39.17	0.3%	0.0%	0.0%	0.3%

Proposed Rates

	Present Rates (n)	Line Item on Bill	Proposed Rates (o)
(1) Distribution Customer Charge	\$135.00	Customer Charge	\$135.00
(2) LIHEAP Enhancement Charge	\$0.81	LIHEAP Enhancement Charge	\$0.81
(3) Renewable Energy Growth Charge	\$11.85	RE Growth Program	\$11.85
(4) Base Distribution Demand Charge (per kW > 10kW)	\$4.85	Distribution Demand Charge	\$4.85
(5) Distribution Charge (per kWh)	\$0.00468		\$0.00468
(6) Operating & Maintenance Expense Charge	\$0.00122		\$0.00142
(7) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)		(\$0.00001)
(8) CapEx Factor Demand Charge (per kW > 10kW)	\$0.67		\$0.81
(9) CapEx Reconciliation Factor	(\$0.00098)	Distribution Energy Charge	(\$0.00098)
(10) Revenue Decoupling Adjustment Factor	\$0.00118		\$0.00118
(11) Pension Adjustment Factor	(\$0.00085)		(\$0.00085)
(12) Storm Fund Replenishment Factor	\$0.00288		\$0.00288
(13) Long-term Contracting for Renewable Energy Charge	\$0.00622	Renewable Energy Distribution Charge	\$0.00622
(14) Net Metering Charge	\$0.00023		\$0.00023
(15) Transmission Demand Charge	\$4.37	Transmission Demand Charge	\$4.37
(16) Base Transmission Charge	\$0.01269		\$0.01269
(17) Transmission Adjustment Factor	(\$0.00205)	Transmission Adjustment	(\$0.00205)
(18) Transmission Uncollectible Factor	\$0.00032		\$0.00032
(19) Base Transition Charge	\$0.00009	Transition Charge	\$0.00009
(20) Transition Adjustment	\$0.00048		\$0.00048
(21) Energy Efficiency Program Charge	\$0.01002	Energy Efficiency Programs	\$0.01002
(22) Standard Offer Service Base Charge	\$0.09492		\$0.09492
(23) SOS Adjustment Factor	(\$0.00304)		(\$0.00304)
(24) SOS Administrative Cost Adjustment Factor	\$0.00122	Supply Services Energy Charge	\$0.00122
(25) Renewable Energy Standard Charge	\$0.00040		\$0.00040

Line Item on Bill

(26) Customer Charge	\$135.00
(28) LIHEAP Enhancement Charge	\$0.81
(27) RE Growth Program	\$11.85
(29) Transmission Adjustment	\$0.01096
(30) Distribution Energy Charge	\$0.00812
(31) Distribution Demand Charge	\$3.52
(32) Transmission Demand Charge	\$4.37
(31) Transition Charge	\$0.00057
(32) Energy Efficiency Programs	\$0.01002
(33) Renewable Energy Distribution Charge	\$0.00645
(34) Supply Services Energy Charge	\$0.09350

Column (n): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Column (o):

Lines (1) through (5), (7), (9) through (21): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/1/2018. Lines (22) through (25): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Line (6): Proposed Operating & Maintenance Expense Charge per Revised Section 6, Page 1, Line (1), Column (c)

Line (8) Illustrative CapEx Factor Demand Charge per Attachment 3-2-3, Page 1, Line (5), Column (c)

The Narragansett Electric Company
d/b/a National Grid
FY2019 Electric Infrastructure, Safety,
and Reliability Plan
Attachment PUC 3-2-4
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Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to C-3.2 Rate Customers

Monthly Power			Present Rates				Proposed Rates				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill			
kW	Hours Use	kWh	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)				
200	200	40,000	\$3,341.47	\$3,772.40	\$296.41	\$7,410.28	\$3,346.67	\$3,772.40	\$296.63	\$7,415.70	\$5.20	\$0.00	\$0.22	\$5.42	0.1%	0.0%	0.1%	0.1%
750	200	150,000	\$12,446.17	\$14,146.50	\$1,088.03	\$27,700.70	\$12,559.17	\$14,146.50	\$1,112.24	\$27,818.41	\$113.00	\$0.00	\$4.71	\$117.71	0.4%	0.0%	0.4%	0.4%
1,000	200	200,000	\$16,584.67	\$18,862.00	\$1,476.94	\$36,923.61	\$16,746.67	\$18,862.00	\$1,483.69	\$37,092.36	\$162.00	\$0.00	\$6.75	\$168.75	0.4%	0.0%	0.5%	0.5%
1,500	200	300,000	\$24,861.67	\$28,293.00	\$2,124.78	\$55,309.45	\$25,121.67	\$28,293.00	\$2,225.61	\$55,640.28	\$260.00	\$0.00	\$10.83	\$270.83	0.5%	0.0%	0.5%	0.5%
2,500	200	500,000	\$41,415.67	\$47,155.00	\$3,690.44	\$92,261.11	\$41,871.67	\$47,155.00	\$3,709.44	\$92,736.11	\$456.00	\$0.00	\$19.00	\$475.00	0.5%	0.0%	0.5%	0.5%
200	300	60,000	\$4,086.87	\$5,658.60	\$406.06	\$10,151.53	\$4,094.67	\$5,658.60	\$406.39	\$10,159.66	\$7.80	\$0.00	\$0.33	\$8.13	0.1%	0.0%	0.1%	0.1%
750	300	225,000	\$15,241.42	\$21,219.75	\$1,519.22	\$37,980.39	\$15,364.17	\$21,219.75	\$1,524.33	\$38,108.25	\$122.75	\$0.00	\$5.11	\$127.86	0.3%	0.0%	0.3%	0.3%
1,000	300	300,000	\$20,311.67	\$28,293.00	\$2,025.19	\$50,629.86	\$20,486.67	\$28,293.00	\$2,034.89	\$50,812.16	\$175.00	\$0.00	\$7.30	\$182.30	0.3%	0.0%	0.4%	0.4%
1,500	300	450,000	\$30,452.17	\$42,439.50	\$3,037.15	\$75,928.82	\$30,731.67	\$42,439.50	\$3,048.80	\$76,219.97	\$279.50	\$0.00	\$11.65	\$291.15	0.4%	0.0%	0.4%	0.4%
2,500	300	750,000	\$50,733.17	\$70,732.50	\$5,061.07	\$126,526.74	\$51,221.67	\$70,732.50	\$5,081.42	\$127,035.59	\$488.50	\$0.00	\$20.35	\$508.85	0.4%	0.0%	0.4%	0.4%
200	400	80,000	\$4,832.27	\$7,544.80	\$515.71	\$12,892.78	\$4,842.67	\$7,544.80	\$516.14	\$12,903.61	\$10.40	\$0.00	\$0.43	\$10.83	0.1%	0.0%	0.1%	0.1%
750	400	300,000	\$18,036.67	\$28,293.00	\$1,930.40	\$48,260.07	\$18,169.17	\$28,293.00	\$1,935.92	\$48,398.09	\$132.50	\$0.00	\$5.52	\$138.02	0.3%	0.0%	0.3%	0.3%
1,000	400	400,000	\$24,036.67	\$37,724.00	\$2,573.44	\$64,336.11	\$24,226.67	\$37,724.00	\$2,581.28	\$64,531.95	\$188.00	\$0.00	\$7.84	\$195.84	0.3%	0.0%	0.3%	0.3%
1,500	400	600,000	\$36,042.67	\$56,586.00	\$3,859.53	\$96,488.20	\$36,341.67	\$56,586.00	\$3,871.99	\$96,799.66	\$299.00	\$0.00	\$12.46	\$311.46	0.3%	0.0%	0.3%	0.3%
2,500	400	1,000,000	\$60,050.67	\$94,310.00	\$6,451.70	\$160,792.37	\$60,571.67	\$94,310.00	\$6,453.40	\$161,335.07	\$521.00	\$0.00	\$21.70	\$542.70	0.3%	0.0%	0.3%	0.3%
750	500	375,000	\$20,831.92	\$35,366.25	\$2,341.59	\$58,539.76	\$20,974.17	\$35,366.25	\$2,347.52	\$58,687.94	\$142.25	\$0.00	\$5.93	\$148.18	0.2%	0.0%	0.2%	0.2%
1,000	500	500,000	\$27,765.67	\$47,155.00	\$3,121.69	\$78,042.36	\$27,966.67	\$47,155.00	\$3,130.07	\$78,251.74	\$201.00	\$0.00	\$8.38	\$209.38	0.3%	0.0%	0.3%	0.3%
1,500	500	750,000	\$41,633.17	\$70,732.50	\$4,681.90	\$117,047.57	\$41,951.67	\$70,732.50	\$4,695.17	\$117,379.34	\$318.50	\$0.00	\$13.27	\$331.77	0.3%	0.0%	0.3%	0.3%
2,500	500	1,250,000	\$69,368.17	\$117,887.50	\$7,802.32	\$195,057.99	\$69,921.67	\$117,887.50	\$7,825.38	\$195,634.55	\$553.50	\$0.00	\$23.06	\$576.56	0.3%	0.0%	0.3%	0.3%
200	600	120,000	\$6,323.07	\$11,317.20	\$735.01	\$18,375.28	\$6,338.67	\$11,317.20	\$735.66	\$18,391.53	\$15.60	\$0.00	\$0.65	\$16.25	0.1%	0.0%	0.1%	0.1%
750	600	450,000	\$23,627.17	\$42,439.50	\$2,752.78	\$68,819.45	\$23,779.17	\$42,439.50	\$2,759.11	\$68,977.78	\$152.00	\$0.00	\$6.33	\$158.33	0.2%	0.0%	0.2%	0.2%
1,000	600	600,000	\$31,492.67	\$56,586.00	\$3,669.94	\$91,748.61	\$31,706.67	\$56,586.00	\$3,678.86	\$91,971.53	\$214.00	\$0.00	\$8.92	\$222.92	0.2%	0.0%	0.2%	0.2%
1,500	600	900,000	\$47,223.67	\$84,879.00	\$5,504.28	\$137,606.95	\$47,561.67	\$84,879.00	\$5,518.36	\$137,959.03	\$338.00	\$0.00	\$14.08	\$352.08	0.2%	0.0%	0.2%	0.2%
2,500	600	1,500,000	\$78,685.67	\$141,465.00	\$9,172.95	\$229,323.62	\$79,271.67	\$141,465.00	\$9,197.36	\$229,934.03	\$586.00	\$0.00	\$24.41	\$610.41	0.3%	0.0%	0.3%	0.3%

	Proposed Rates	Present Rates
(1) Distribution Customer Charge	(o) \$825.00	(o) \$825.00
(2) LIHEAP Enhancement Charge	\$0.81	\$0.81
(3) Renewable Energy Growth Charge	\$86.86	\$86.86
(4) Base Distribution Demand Charge (per kW > 200kW)	\$3.70	\$3.70

	Proposed Rates	Present Rates
(5) Distribution Charge (per kWh)	\$0.00551	\$0.00551
(6) Operating & Maintenance Expense Charge	\$0.00079	\$0.00079
(7) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)	(\$0.00001)
(8) FY18 Cplx Factor Demand Charge (per kW > 10kW)	\$0.71	\$0.71
(9) Cplx Reconciliation Factor	(\$0.00050)	(\$0.00050)
(10) Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118
(11) Pension Adjustment Factor	(\$0.00085)	(\$0.00085)
(12) Storm Fund Replenishment Factor	\$0.00288	\$0.00288

	Proposed Rates	Present Rates
(13) Long-term Contracting for Renewable Energy Charge	\$0.00622	\$0.00622
(14) Net Metering Charge	\$0.00023	\$0.00023
(15) Transmission Demand Charge	\$4.69	\$4.69
(16) Base Transmission Charge	\$0.01172	\$0.01172
(17) Transmission Adjustment Factor	(\$0.00079)	(\$0.00079)
(18) Transmission Uncollectible Factor	\$0.00030	\$0.00030
(19) Base Transition Charge	\$0.00009	\$0.00009
(20) Transition Adjustment	\$0.00048	\$0.00048

	Proposed Rates	Present Rates
(21) Energy Efficiency Program Charge	\$0.01002	\$0.01002
(22) Standard Offer Service Base Charge	\$0.09776	\$0.09776
(23) SOS Adjustment Factor	(\$0.00507)	(\$0.00507)
(24) SOS Administrative Cost Adjustment Factor	\$0.00122	\$0.00122
(25) Renewable Energy Standard Charge	\$0.00040	\$0.00040

	Proposed Rates	Present Rates
(26) Customer Charge	\$825.00	\$825.00
(27) LIHEAP Enhancement Charge	\$0.81	\$0.81
(28) RE Growth Program	\$86.86	\$86.86
(29) Transmission Adjustment	\$0.01123	\$0.01123
(30) Distribution Energy Charge	\$0.00900	\$0.00900
(31) Distribution Demand Charge	\$4.41	\$4.41
(32) Transmission Demand Charge	\$4.69	\$4.69
(33) Transition Charge	\$0.00057	\$0.00057
(34) Energy Efficiency Programs	\$0.01002	\$0.01002
(35) Renewable Energy Distribution Charge	\$0.00645	\$0.00645
(36) Supply Services Energy Charge	\$0.09431	\$0.09431

	Proposed Rates	Present Rates
(37) Customer Charge	\$825.00	\$825.00
(38) LIHEAP Enhancement Charge	\$0.81	\$0.81
(39) RE Growth Program	\$86.86	\$86.86
(40) Transmission Adjustment	\$0.01123	\$0.01123
(41) Distribution Energy Charge	\$0.00900	\$0.00900
(42) Distribution Demand Charge	\$4.41	\$4.41
(43) Transmission Demand Charge	\$4.69	\$4.69
(44) Transition Charge	\$0.00057	\$0.00057
(45) Energy Efficiency Programs	\$0.01002	\$0.01002
(46) Renewable Energy Distribution Charge	\$0.00645	\$0.00645
(47) Supply Services Energy Charge	\$0.09431	\$0.09431

	Proposed Rates	Present Rates
(48) Customer Charge	\$825.00	\$825.00
(49) LIHEAP Enhancement Charge	\$0.81	\$0.81
(50) RE Growth Program	\$86.86	\$86.86
(51) Transmission Adjustment	\$0.01123	\$0.01123
(52) Distribution Energy Charge	\$0.00900	\$0.00900
(53) Distribution Demand Charge	\$4.41	\$4.41
(54) Transmission Demand Charge	\$4.69	\$4.69
(55) Transition Charge	\$0.00057	\$0.00057
(56) Energy Efficiency Programs	\$0.01002	\$0.01002
(57) Renewable Energy Distribution Charge	\$0.00645	\$0.00645
(58) Supply Services Energy Charge	\$0.09431	\$0.09431

	Proposed Rates	Present Rates
(59) Customer Charge	\$825.00	\$825.00
(60) LIHEAP Enhancement Charge	\$0.81	\$0.81
(61) RE Growth Program	\$86.86	\$86.86
(62) Transmission Adjustment	\$0.01123	\$0.01123
(63) Distribution Energy Charge	\$0.00900	\$0.00900
(64) Distribution Demand Charge	\$4.41	\$4.41
(65) Transmission Demand Charge	\$4.69	\$4.69
(66) Transition Charge	\$0.00057	\$0.00057
(67) Energy Efficiency Programs	\$0.01002	\$0.01002
(68) Renewable Energy Distribution Charge	\$0.00645	\$0.00645
(69) Supply Services Energy Charge	\$0.09431	\$0.09431

	Proposed Rates	Present Rates
(70) Customer Charge	\$825.00	\$825.00
(71) LIHEAP Enhancement Charge	\$0.81	\$0.81
(72) RE Growth Program	\$86.86	\$86.86
(73) Transmission Adjustment	\$0.01123	\$0.01123
(74) Distribution Energy Charge	\$0.00900	\$0.00900
(75) Distribution Demand Charge	\$4.41	\$4.41
(76) Transmission Demand Charge	\$4.69	\$4.69
(77) Transition Charge	\$0.00057	\$0.00057
(78) Energy Efficiency Programs	\$0.01002	\$0.01002
(79) Renewable Energy Distribution Charge	\$0.00645	\$0.00645
(80) Supply Services Energy Charge	\$0.09431	\$0.09431

	Proposed Rates	Present Rates
(81) Customer Charge	\$825.00	\$825.00
(82) LIHEAP Enhancement Charge	\$0.81	\$0.81
(83) RE Growth Program	\$86.86	\$86.86
(84) Transmission Adjustment	\$0.01123	\$0.01123
(85) Distribution Energy Charge	\$0.00900	\$0.00900
(86) Distribution Demand Charge	\$4.41	\$4.41
(87) Transmission Demand Charge	\$4.69	\$4.69
(88) Transition Charge	\$0.00057	\$0.00057
(89) Energy Efficiency Programs	\$0.01002	\$0.01002
(90) Renewable Energy Distribution Charge	\$0.00645	\$0.00645
(91) Supply Services Energy Charge	\$0.09431	\$0.09431

Column (n): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/1/2018, and Summary of Rates Standard Offer Service tariff R.I.P.U.C. No. 2096, effective 1/1/2018
Column (o):
Lines (1) through (5), (7), (9) through (21): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/1/2018. Lines (22) through (25): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018
Line (6): Proposed Operating & Maintenance Expense Charge per Revised Section 6, Page 1, Line (1), Column (e)
Line (8) Illustrative Cplx Factor Demand Charge per Attachment 3-2-3, Page 1, Line (5), Column (e)

Calculation of Monthly Typical Bill
Total Bill Impact of Proposed
Rates Applicable to G-2 Rate Customers

Monthly Power			Present Rates				Proposed Rates				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill			
kW	Hours Use	kWh	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)
3,000	200	600000	\$61,888.89	\$56,586.00	\$4,936.45	\$123,411.34	\$62,698.89	\$56,586.00	\$4,970.20	\$124,255.09	\$810.00	\$0.00	\$33.75	\$843.75	0.7%	0.0%	0.0%	0.7%
5,000	200	1000000	\$90,528.89	\$94,310.00	\$7,701.62	\$192,540.51	\$91,878.89	\$94,310.00	\$7,757.87	\$193,946.76	\$1,350.00	\$0.00	\$36.25	\$1,406.25	0.7%	0.0%	0.0%	0.7%
7,500	200	1500000	\$126,328.89	\$141,465.00	\$11,158.08	\$278,951.97	\$128,353.89	\$141,465.00	\$11,242.45	\$281,061.34	\$2,025.00	\$0.00	\$84.37	\$2,109.37	0.8%	0.0%	0.0%	0.8%
10,000	200	2000000	\$162,128.89	\$188,620.00	\$16,414.54	\$365,363.43	\$164,828.89	\$188,620.00	\$14,727.04	\$368,175.93	\$2,700.00	\$0.00	\$112.50	\$2,812.50	0.8%	0.0%	0.0%	0.8%
20,000	200	4000000	\$305,528.89	\$377,240.00	\$28,440.37	\$711,009.26	\$310,728.89	\$377,240.00	\$28,665.37	\$716,634.26	\$5,400.00	\$0.00	\$225.00	\$5,625.00	0.8%	0.0%	0.0%	0.8%
3,000	300	900000	\$72,418.89	\$84,879.00	\$6,554.08	\$163,851.97	\$73,228.89	\$84,879.00	\$6,587.83	\$164,697.72	\$810.00	\$0.00	\$33.75	\$843.75	0.5%	0.0%	0.0%	0.5%
5,000	300	1500000	\$108,078.89	\$141,465.00	\$10,397.66	\$259,941.55	\$109,428.89	\$141,465.00	\$10,453.91	\$261,347.80	\$1,350.00	\$0.00	\$36.25	\$1,406.25	0.5%	0.0%	0.0%	0.5%
7,500	300	2250000	\$152,653.89	\$212,197.50	\$15,202.14	\$380,053.53	\$154,678.89	\$212,197.50	\$15,286.52	\$382,162.91	\$2,025.00	\$0.00	\$84.38	\$2,109.38	0.5%	0.0%	0.0%	0.5%
10,000	300	3000000	\$197,228.89	\$282,930.00	\$20,066.62	\$500,165.51	\$199,928.89	\$282,930.00	\$20,119.12	\$502,978.01	\$2,700.00	\$0.00	\$112.50	\$2,812.50	0.6%	0.0%	0.0%	0.6%
20,000	300	6000000	\$375,528.89	\$565,860.00	\$39,224.54	\$980,613.43	\$380,928.89	\$565,860.00	\$39,449.54	\$986,238.43	\$5,400.00	\$0.00	\$225.00	\$5,625.00	0.6%	0.0%	0.0%	0.6%
3,000	400	1200000	\$82,948.89	\$113,172.00	\$8,171.70	\$204,292.59	\$83,758.89	\$113,172.00	\$8,205.45	\$205,136.34	\$810.00	\$0.00	\$33.75	\$843.75	0.4%	0.0%	0.0%	0.4%
5,000	400	2000000	\$125,628.89	\$188,620.00	\$13,093.70	\$327,342.59	\$126,978.89	\$188,620.00	\$13,149.95	\$328,748.84	\$1,350.00	\$0.00	\$36.25	\$1,406.25	0.4%	0.0%	0.0%	0.4%
7,500	400	3000000	\$178,978.89	\$282,930.00	\$19,246.21	\$481,155.10	\$181,003.89	\$282,930.00	\$19,330.58	\$483,264.47	\$2,025.00	\$0.00	\$84.37	\$2,109.37	0.4%	0.0%	0.0%	0.4%
10,000	400	4000000	\$232,328.89	\$377,240.00	\$25,398.71	\$634,967.60	\$235,028.89	\$377,240.00	\$25,511.21	\$637,780.10	\$2,700.00	\$0.00	\$112.50	\$2,812.50	0.4%	0.0%	0.0%	0.4%
20,000	400	8000000	\$445,728.89	\$754,480.00	\$50,008.71	\$1,250,217.60	\$451,128.89	\$754,480.00	\$50,233.71	\$1,255,842.60	\$5,400.00	\$0.00	\$225.00	\$5,625.00	0.4%	0.0%	0.0%	0.4%
3,000	500	1500000	\$93,478.89	\$141,465.00	\$9,789.33	\$244,733.22	\$94,288.89	\$141,465.00	\$9,823.08	\$245,576.97	\$810.00	\$0.00	\$33.75	\$843.75	0.3%	0.0%	0.0%	0.3%
5,000	500	2500000	\$143,178.89	\$235,775.00	\$15,789.75	\$394,743.64	\$144,528.89	\$235,775.00	\$15,846.00	\$396,149.89	\$1,350.00	\$0.00	\$36.25	\$1,406.25	0.3%	0.0%	0.0%	0.3%
7,500	500	3750000	\$205,303.89	\$353,662.50	\$23,290.27	\$582,256.66	\$207,328.89	\$353,662.50	\$23,374.64	\$584,366.03	\$2,025.00	\$0.00	\$84.37	\$2,109.37	0.4%	0.0%	0.0%	0.4%
10,000	500	5000000	\$267,428.89	\$471,550.00	\$30,790.79	\$769,769.68	\$270,128.89	\$471,550.00	\$30,903.29	\$772,582.18	\$2,700.00	\$0.00	\$112.50	\$2,812.50	0.4%	0.0%	0.0%	0.4%
20,000	500	10000000	\$515,928.89	\$943,100.00	\$60,792.88	\$1,519,821.77	\$521,328.89	\$943,100.00	\$61,017.88	\$1,525,446.77	\$5,400.00	\$0.00	\$225.00	\$5,625.00	0.4%	0.0%	0.0%	0.4%
3,000	600	1800000	\$104,008.89	\$169,758.00	\$11,406.95	\$285,173.84	\$104,818.89	\$169,758.00	\$11,440.70	\$286,017.59	\$810.00	\$0.00	\$33.75	\$843.75	0.3%	0.0%	0.0%	0.3%
5,000	600	3000000	\$160,728.89	\$262,930.00	\$18,485.79	\$442,144.68	\$162,078.89	\$262,930.00	\$18,542.04	\$443,530.93	\$1,350.00	\$0.00	\$36.25	\$1,406.25	0.3%	0.0%	0.0%	0.3%
7,500	600	4500000	\$231,628.89	\$424,395.00	\$27,334.33	\$683,358.22	\$233,653.89	\$424,395.00	\$27,418.71	\$685,467.60	\$2,025.00	\$0.00	\$84.38	\$2,109.38	0.3%	0.0%	0.0%	0.3%
10,000	600	6000000	\$302,528.89	\$565,860.00	\$36,182.87	\$904,571.76	\$305,228.89	\$565,860.00	\$36,295.37	\$907,384.26	\$2,700.00	\$0.00	\$112.50	\$2,812.50	0.3%	0.0%	0.0%	0.3%
20,000	600	12000000	\$586,128.89	\$1,131,720.00	\$71,577.04	\$1,789,425.93	\$591,528.89	\$1,131,720.00	\$71,802.04	\$1,795,050.93	\$5,400.00	\$0.00	\$225.00	\$5,625.00	0.3%	0.0%	0.0%	0.3%

Present Rates

Proposed Rates

Line Item on Bill

(1) Distribution Customer Charge	(o)	\$17,000.00	Customer Charge
(2) LHEAP Enhancement Charge	\$0.81	\$1,928.08	LHEAP Enhancement Charge
(3) Renewable Energy Growth Charge	\$2.99	\$2.99	RE Growth Program
(4) Base Distribution Demand Charge per kW	\$0.00000	\$0.00000	Distribution Demand Charge
(5) Distribution Charge (per kWh)	\$0.36	\$0.45	
(6) Operating & Maintenance Expense Charge per KW	(\$0.00001)	\$0.45	
(7) Operating & Maintenance Expense Reconciliation Factor	\$0.55	\$0.73	
(8) FY18 CapEx Factor Demand Charge per kW	(\$0.00038)	\$0.73	Distribution Energy Charge
(9) CapEx Reconciliation Factor	\$0.00118	\$0.00118	
(10) Revenue Decoupling Adjustment Factor	(\$0.00085)	(\$0.00085)	
(11) Pension Adjustment Factor	\$0.00288	\$0.00288	
(12) Storm Fund Replenishment Factor	\$0.00622	\$0.00622	Renewable Energy Distribution Charge
(13) Long-term Contracting for Renewable Energy Charge	\$0.00623	\$0.00623	
(14) Net Metering Charge	\$3.40	\$3.40	
(15) Transmission Demand Charge	\$0.01426	\$0.01426	
(16) Base Transmission Charge	\$0.00066	\$0.00066	Transmission Adjustment
(17) Transmission Adjustment Factor	\$0.00032	\$0.00032	
(18) Transmission Uncollectible Factor	\$0.00009	\$0.00009	Transition Charge
(19) Base Transition Charge	\$0.00048	\$0.00048	Energy Efficiency Programs
(20) Transition Adjustment	\$0.01002	\$0.01002	
(21) Energy Efficiency Program Charge	\$0.09776	\$0.09776	
(22) Standard Offer Service Base Charge	(\$0.00507)	(\$0.00507)	Supply Services Energy Charge
(23) SOS Adjustment Factor	\$0.00122	\$0.00122	
(24) SOS Administrative Cost Adjustment Factor	\$0.00040	\$0.00040	
(25) Renewable Energy Standard Charge	\$17,000.00	\$17,000.00	
Line Item on Bill	\$0.81	\$0.81	
(26) Customer Charge	\$1,928.08	\$1,928.08	
(27) LHEAP Enhancement Charge	\$0.01524	\$0.01524	
(28) RE Growth Program	\$0.00282	\$0.00282	
(29) Transition Adjustment	\$3.40	\$3.40	
(30) Distribution Energy Charge	\$0.00057	\$0.00057	
(31) Distribution Demand Charge	\$0.01002	\$0.01002	
(32) Transmission Charge	\$0.00645	\$0.00645	
(33) Energy Efficiency Programs	\$0.09431	\$0.09431	
(34) Renewable Energy Distribution Charge			
(35) Supply Services Energy Charge			

Column (n) per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2009, effective 1/1/2018, and Summary of Rates Standard Offer Service unrif. R.I.P.U.C. No. 2006, effective 1/1/2018

Column (o):

Lines (1) through (5), (7), (9) through (21): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2009, effective 1/1/2018. Lines (22) through (25): Summary of Rates Standard Offer Service unrif. R.I.P.U.C. No. 2006, effective 1/1/2018

Line (6): Proposed Operating & Maintenance Expense Demand Charge per Revised Section 6, Page 1, Line (2), Column (g)

Line (8) Illustrative CapEx Factor Demand Charge per Attachment 3-2-3, Page 1, Line (5), Column (g)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4783
In Re: Electric Infrastructure, Safety, and Reliability Plan FY2019
Responses to the Commission's Third Set of Data Requests
Issued on February 16, 2018

PUC 3-3

Request:

The reduction in revenue requirement from the tax law change is \$1,261,891 in FY 2018 and \$697,981 for FY 2019. Given that the law change affects 3 months in FY 2018 (January – March 2018) and 12 months in FY 2019 (April 2018 – March 2019), why is the reduction much larger in FY 2018 as compared to FY 2019?

Response:

Please refer to the Company's response in PUC 3-2. The correct reduction in the FY 2018 revenue requirement from the tax law change is \$95,684, not the \$1,261,891 as stated in the Company's response to Information Request Division 2-1, Attachment DIV 2-1-1.