## National Grid

The Narragansett Electric Company

FY 2018 Electric Infrastructure, Safety and Reliability Plan

## **Annual Reconciliation**

August 1, 2018

Docket No. 4682

#### **Submitted to:**

Rhode Island Public Utilities Commission

Submitted by:

nationalgrid



August 1, 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 4682 - Fiscal Year 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing

Dear Ms. Massaro:

On behalf of National Grid, <sup>1</sup> relating to the Company's Fiscal Year (FY) 2018 Electric Infrastructure, Safety, and Reliability (ISR) Plan, I have enclosed ten (10) copies of the Company's Electric ISR Reconciliation Filing. Pursuant to the approved ISR Plan and the ISR Provision, RIPUC No. 2188, after the end of the ISR Plan year, which runs from April 1 through March 31, the Company must file annually, by August 1 of each year, the proposed CapEx Reconciling Factors and O&M Reconciling Factor that will become effective for the 12 months beginning October 1. The CapEx Reconciling Factors recover or refund the difference between the reconciliation of actual billed revenue generated from the CapEx Factors and the actual Cumulative Revenue Requirement for the applicable plan year. Similarly, the annual O&M Reconciling Factor recovers or refunds the difference between the reconciliation of actual billed revenue from the O&M Factor and actual Inspection and Maintenance (I&M) program expense and actual Vegetation Management (VM) program expense for the ISR Plan year. Additionally, on August 1, the Company must report on the prior fiscal year's ISR Plan activities and include descriptions of deviations from the original plans approved by the Rhode Island Public Utilities Commission (PUC).

This filing provides the actual discretionary and non-discretionary capital investment spending and the actual Vegetation Management (VM) and Inspection and Maintenance (I&M) expenses for the period April 1, 2017 to March 31, 2018. As explained in this filing, the actual capital plant-in-service is compared to the budgeted amounts for these categories, as approved by the PUC in Order No. 21559. The plant-in-service investment and Operation and Maintenance (O&M) expenses for VM and I&M are then used in the calculation of the revenue requirement for the annual reconciliation of investment and expenses for the fiscal year. This revenue requirement is then compared to actual revenue billed, and any difference forms the basis for the proposed

<sup>&</sup>lt;sup>1</sup> The Narragansett Electric Company d/b/a National Grid (National Grid or Company).

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Electric ISR Plan reconciliation factors for effect October 1, 2018. This filing also includes details on the Company's actual discretionary and non-discretionary capital investment spending by category during FY 2018. Finally, this filing includes a summary of the Company's Reliability Performance through December 31, 2017.

The pre-filed direct testimonies of Prabhjot S. Anand, Melissa A. Little, and Adam Crary are enclosed with this filing. Mr. Anand presents the Company's FY 2018 Electric ISR Plan Reconciliation Filing related to the FY 2018 Electric ISR Plan, which the PUC approved in this docket. Ms. Little's testimony describes the calculation of the revenue requirement based on the capital plant-in-service and the total annual actual VM and I&M expenses for the fiscal year. Ms. Little's testimony also includes a description of the revenue requirement model and attachments that support the final revenue requirement. As explained in Ms. Little's testimony, for the FY 2018 Electric ISR reconciliation, the Company has an updated revenue requirement of \$22.7 million. Mr. Crary describes the reconciliation of the final actual FY 2018 revenue requirement against revenue billed in support of that revenue requirement, the proposed factors resulting from the reconciliation, and the bill impacts of those proposed factors. The impact of the proposed CapEx Reconciling Factor and the proposed O&M Reconciling Factor on a typical residential customer receiving Standard Offer Service and using 500 kWhs per month is an increase of \$0.34 per month, or approximately 0.3%, from \$99.63 to \$99.97 per month.

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

Very truly yours,

Raquel J. Webster

#### Enclosures

cc: Docket 4682 Service List LeoWold, Esq. John Bell, Division THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4682
FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN
ANNUAL RECONCILIATION FILING
WITNESS: PRABHJOT S. ANAND

#### PRE-FILED DIRECT TESTIMONY

**OF** 

PRABHJOT S. ANAND

August 1, 2018

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4682
FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN
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#### **Introduction and Qualifications**

- 2 Q. Mr. Anand, please state your name and business address.
- 3 A. My name is Prabhjot S. Anand. My business address is 40 Sylvan Road, Waltham,
- 4 Massachusetts 02451.

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I.

- 6 Q. Mr. Anand, by whom are you employed and in what position?
- 7 A. I am employed by National Grid USA Service Company, Inc. (Service Company) as
- 8 Director, Strategy and Performance Electric, New England. I am responsible for
- 9 regulatory filings and regulatory compliance related to the electric distribution operation
- of The Narragansett Electric Company d/b/a National Grid (the Company or National
- Grid). I am also responsible filings relating to National Grid USA's electric distribution
- 12 operations in Massachusetts.

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- 14 Q. Mr. Anand, please describe your educational background and professional experience.
- 15 A. In 1993, I graduated from Worcester Polytechnic Institute with a Bachelor of Science Degree
- in Electrical Engineering. In the same year, I was employed by Massachusetts Electric as an
- 17 Associate Operations Engineer responsible for the design of new distribution facilities for
- business and capital improvement projects. From 1997 to 2004, I held various roles that
- involved increasing electric system responsibility relating to the design, implementation,
- 20 construction and management of sub-transmission and distribution system projects. In 2004,
- I received a Master of Science degree in Power Systems Management from Worcester

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1		Polytechnic Institute. In 2004, I was the Manager of Operations Planning and Schedule with
2		responsibility for the development and coordination of a regional capital, storm, emergency,
3		and business continuity work plans. From 2008 thru 2017, I held various positions and was
4		responsible for the management of complex permitting/high profile projects within the
5		electric transmission and distribution business in New England and upstate New York. I
6		assumed my current position in February 2017.
7		
8	Q.	Have you previously testified before the Rhode Island Public Utilities Commission
9		(PUC)?
10	A.	Yes. I have testified in support of the Company's FY 2017 Infrastructure, Safety and
11		Reliability (ISR) Reconciliation filing in Docket No. 4592, in support of the Company's
12		Annual FY 2018 ISR Plan in Docket No. 4682, and in the Company's Annual FY 2019
13		ISR Plan in Docket No. 4783.
14		
15	II.	Purpose of Testimony
16	Q.	What is the purpose of your testimony?
17	A.	The purpose of my testimony is to present the Company's Fiscal Year 2018 (FY 2018)
18		Annual Reconciliation filing related to the FY 2018 Electric ISR Plan approved by the
19		PUC in this docket. This filing provides the actual plant-in-service for discretionary and

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non-discretionary capital investment and associated cost of removal (COR)<sup>1</sup>, the actual vegetation management (VM) operation and maintenance (O&M) expenses, and the actual inspection and maintenance (I&M) O&M expenses for the period April 1, 2017 to March 31, 2018. As described in Ms. Melissa Little's testimony in this filing, this plant-in-service investment and the O&M expenses for VM and I&M is used to calculate the FY 2018 Electric ISR Plan revenue requirement. As explained in Mr. Adam Crary's testimony in this filing, the revenue requirement is then reconciled against the actual revenue billed during FY 2018. Specific details by category for the FY 2018 Electric ISR Plan plant-in-service additions, associated COR, and actual capital spending are included in Attachment PSA-1, which is attached to this testimony.

#### III. Plant-In-Service

#### Q. Please provide an overview of the plant-in-service for FY 2017.

As shown in <u>Table 1</u> of Attachment PSA-1, in FY 2018, the Company's plant-in-service investment was \$92.7 million. This amount was approximately \$17.8 million over the planned amount of \$74.8 million. The Non-Discretionary Sub-category had approximately \$35.9 million of plant additions placed in service, which was approximately \$3.2 million over the planned amount of \$32.7 million. The Discretionary Sub-category had \$56.7 million of plant additions placed in service, which was

Under the Electric ISR Plan, discretionary capital investment for a fiscal year must be reconciled to the lesser of the actual capital investment placed-in-service and the level of approved <u>spending</u> on a cumulative basis. Non-discretionary capital investment for a fiscal year must be reconciled to the actual capital investment placed-in-service. Docket No. 4218, Report and Order No. 20852 at 6 (December 12, 2011).

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approximately \$14.6 million over the planned amount of \$42.1 million. This variance was primarily driven by portions of the South Street project being placed in-service in the fourth quarter of FY 2018. As shown in Table 2 of Attachment PSA-1, in FY 2018, the associated cost of removal (COR) was \$9.9 million which was over-budget by approximately \$0.3 million from the FY 2018 forecast of \$9.6 million. These totals resulted in a net Electric ISR Plan investment of \$102.6 million, which was approximately \$18.1 million over the Company's combined plant-in-service and COR planned amount of \$84.5 million. Details on these variances are included in Section I of Attachment PSA-1.

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#### IV. **Capital Spending**

- 12 Please summarize the Company's actual capital spending for FY 2018 for the Q.
- 13 Electric ISR Plan.
- As shown in Table 3 of Attachment PSA-1, for FY 2018, the Company spent \$107.1 15 million for capital investment under the Electric ISR Plan. This amount was \$6.4 million 16 over the annual approved budget of \$100.6 million. This over-budget variance was driven primarily by capital spending in the Non-Discretionary Sub-category, which was 17 18 over-budget by \$5.6 million. Within this sub-category, the Damage Failure category was

19 over-budget by \$7.8 million due primarily to increase spending in Major Storms.

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In addition, this over-budget variance also accounts for a recent adjustment provided in the revenue requirement in the Company's rate case in Docket No. 4770. Specifically, the Company increased the actual ISR capital spending for FY 2018 as a result of an Administrative & General (A&G) activity time study. This A&G study was completed by a third party consulting firm. As a result of the supporting time study, the Company determined that an adjustment was necessary in FY 2018 to capitalize work activity performed in direct or indirect support of construction consistent with commonly accepted industry practices and allowed for by the FERC Uniform System of Accounts. The total adjustment to be credited to expense and debited to capital was approximately \$4.0 million. This resulted in an adjusted FY 2018 ISR capital spending total of \$107.1 million, which is \$6.5 million over the FY 2018 ISR budget of \$100.6 million. The Company has assigned these A&G costs to the appropriate spending categories in Table 3 of Attachment PSA 1.

Accordingly, for FY 2018, capital spending in the Discretionary Sub-category (excluding South Street) was \$43.5 million, which was \$1.9 million over the annual approved budget of \$41.6 million. This was driven primarily by an increase in spending on System Capacity & Performance category which was over-budget by \$2.0 million. Capital spending on the South Street project, which was managed as a separate Discretionary Sub-category, was \$24.7 million, which was \$1.0 million under the annual approved budget of \$25.7 million.

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1		The key drivers and variances by category are discussed in more detail in <u>Section III</u> of
2		Attachment PSA-1.
3		
4	V.	O&M Spending
5	Q.	Please summarize the Company's actual O&M spending for the FY 2018 Electric
6		ISR Plan.
7	A.	As shown in Table 11 of Attachment PSA-1, for FY 2018, the Company's VM O&M
8		spending was \$9.5 million, which was over-budget by \$0.1 million. In addition, as
9		shown in Table 12, the Company's I&M O&M spending for FY 2018 was approximately
10		\$0.7 million, which was approximately \$0.4 million under the I&M annual approved
11		budget of \$1.1 million. Detailed information regarding the VM and I&M variances,
12		along with the work completed, are discussed in Attachment PSA-1 in Sections IV and
13		Section V, respectively.
14		
15	VI.	Reliability Performance
16	Q.	Please summarize the results of the Company's reliability performance for CY 2017.
17	A.	Section VI of Attachment PSA-1 includes the Company's Reliability Performance for
18		calendar year 2017 (CY 2017). As shown in <u>Table 13</u> , the Company met both its System
19		Average Interruption Frequency Index (SAIFI) and System Average Interruption
20		Duration Index (SAIDI) performance metrics in CY 2017, with SAIFI of 0.775 against a
21		target of 1.05, and SAIDI of 59.10 minutes, against a target of 71.9 minutes. The

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1		Company's annual service quality targets are measured excluding major event days. A				
2		comparison of reliability performance in CY 2017 relative to that of previous years is				
3		shown in Table 13 below. The Company's performance has shown an improving				
4		downward trend over the past several years with major event days excluded.				
5		CY 2017 had four days that were characterized as a major event day. Table 14 below				
6		provides additional details including the event, dates, the total number of customers				
7		interrupted, and the daily SAIDI performance metric. Reliability performance, including				
8		major event days, is shown in <u>Table 15</u> for CY 2001 through CY 2017.				
9						
10	Q.	Does this conclude your testimony?				
11	A.	Yes.				

A Major Event Day (MED) is defined as a day on which the daily system SAIDI exceeds a MED threshold value (4.58 minutes for CY 2017). For purposes of calculating daily system SAIDI, any interruption that spans multiple calendar days is accrued to the day on which the interruption began. Statistically, days having a daily system SAIDI greater than the MED are days on which the energy delivery system experiences stress beyond that normally expected, such as during severe weather.

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#### Attachment PSA-1

FY 2018 Electric Infrastructure, Safety and Reliability Plan Annual Reconciliation Filing

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#### FY 2018 Electric Infrastructure, Safety and Reliability Plan

#### **Annual Reconciliation Filing**

#### **EXECUTIVE SUMMARY**

In accordance with tariff, RIPUC No. 2044, Sheets 1-4, the Company submits this annual reconciliation filing for the fiscal year 2018 (FY 2018) Electric Infrastructure, Safety and Reliability (Electric ISR) Plan which the Rhode Island Public Utilities Commission (RIPUC) approved in Docket No. 4682. This filing provides the actual discretionary and nondiscretionary capital investment spending and the actual vegetation management (VM) and inspection and maintenance (I&M) operation and maintenance (O&M) expenses for the period April 1, 2017 to March 31, 2018. As explained in this filing, the actual capital plant-in-service is compared to the planned amounts for these categories, as approved by the RIPUC in Order No. 22174. The capital plant-in-service investment and O&M expenses for VM and I&M are then used to calculate the revenue requirement for the annual reconciliation of investment and expenses for the fiscal year. This revenue requirement is then compared to actual revenue billed, and any difference forms the basis for the proposed Electric ISR Plan reconciliation factors for effect October 1, 2018. This filing also includes details on the Company's actual discretionary and non-discretionary capital spending by category in FY 2018. Finally, this filing includes a summary of the Company's reliability performance through December 31, 2017.

For FY 2018, the Company's plant-in-service investment was \$92.7 million, which was higher than the planned amount of \$74.8 million. This variance was mainly driven by the fact that portions of the South Street Project were placed in-service in the fourth quarter of FY 2018. The associated cost of removal (COR) was \$9.9 million, which is slightly above the FY 2018 forecast of \$9.6 million. These totals resulted in a net Electric ISR Plan investment of \$102.7 million, which was approximately \$18.2 million over the Company's combined plant-in-service and COR planned amount of \$84.5 million. Section I provides a summary overview of the actual plant placed-in-service by category compared to the annual planned amount approved in Docket No. 4682. A similar summary is provided for COR.

For FY 2018, the Company spent \$107.1 million for capital investment, which was approximately \$6.5 million over the annual approved budget of \$100.6 million. This variance includes a recent adjustment provided in the revenue requirement in the Company's rate case in Docket No. 4770. Specifically, the Company increased actual ISR capital spending for FY 2018 as a result of an Administrative & General (A&G) activity time study. This A&G study was

<sup>&</sup>lt;sup>1</sup> The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

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completed by a third-party consulting firm. As a result of that review and supporting time study, the Company determined that an adjustment was necessary to capitalize work activity performed in direct or indirect support of construction consistent with commonly accepted industry practices and allowed for by the FERC Uniform System of Accounts. The total adjustment to be credited to expense and debited to capital was \$4.0 million. The Company's filing reflects the final assignment of these costs to the appropriate spending categories of the FY 2018 ISR. This is consistent with the Company's related operations and maintenance expense adjustment that was reflected as a reduction to the base rate revenue requirement as addressed in Docket 4770. Section II provides a summary overview of the actual capital spending by category compared to the annual budget approved in Docket No. 4682. Section III provides detailed explanations of capital spending variances by category to the annual approved budget.

For FY 2018, the Company's VM O&M spending was slightly over budget at \$9.5 million on a budget of \$9.4 million. <u>Section IV</u> provides a summary overview of O&M expenses by VM subcategory along with variance explanations.

For FY 2018, the Company's I&M O&M spending was approximately \$0.7 million, which was \$0.4 million under the I&M annual approved budget of \$1.1 million. Section V provides a summary overview of O&M expenses by I&M sub-category along with variance explanations.

Finally, a summary of the Company's reliability performance through December 31, 2017 is addressed in <u>Section VI</u>.

This filing includes testimony from Ms. Little and Mr. Crary. Ms. Little's testimony describes the calculation of the revenue requirement based on the capital plant-in-service and the total annual actual VM and I&M O&M expenses for the fiscal year. Ms. Little's testimony also includes a description of the revenue requirement model and attachments that support the final revenue requirement. As shown in Ms. Little's testimony, for the FY 2018 filing, the Company has an updated revenue requirement of approximately \$22.7 million.

Mr. Crary's testimony provides a description of the reconciliation of the final actual FY 2018 revenue requirement against revenue billed in support of that revenue requirement, the proposed factors resulting from the reconciliation, and the bill impacts of those proposed factors. The impact of the proposed CapEx Reconciling Factor and the proposed O&M Reconciling Factor on a typical residential customer receiving Standard Offer Service and using 500 kWhs per month is an increase of \$0.34, or approximately 0.3% from \$99.63 to \$99.97.

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#### I. FY 2018 Capital for Plant Investment Placed in Service

In its reconciliation filing, the Company is required to submit the annual capital spending for plant additions that were placed in service during the fiscal year. As shown in Table 1 below, for FY 2018, approximately \$92.7 million was placed in service, which was approximately \$17.8 million over the annual planned amount of \$74.8 million. The Non-Discretionary Sub-category had \$36.0 million of plant additions placed in service, which was \$3.2 million over the planned amount of \$32.7 million. This variance was driven primarily by increase spending in the Damage Failure category due to Major Storms.

The Discretionary Sub-category had \$56.7 million of plant additions placed in service, which was approximately \$14.6 million over the planned amount of \$42.1 million. This variance was primarily due to portions of the South Street project going into service in the fourth quarter of FY 2018.

Table 1

FY 2018 Plant Additions by Category

	FY 2018 Annual ISR Forecast	FY 2018 Year End Actual	Variance of Actual to Forecast*	
Customer Request/Public Requirement	\$20,202,000	\$20,824,583	\$622,583	
Damage Failure	\$12,529,000	\$15,084,814	\$2,555,814	
Subtotal Non-Discretionary	\$32,731,000	\$35,909,398	\$3,178,398	
Asset Condition (w/South Street)	\$22,199,000	\$44,644,857	\$22,445,857	
Non- Infrastructure	\$0	\$2,673	\$2,673	
System Capacity & Performance	\$19,913,000	\$12,102,727	(\$7,810,273)	
Subtotal Discretionary	\$42,112,000	\$56,750,256	\$14,638,256	
Total Capital Investment in System	\$74,843,000	\$92,659,654	\$17,816,654	
* ( ) denotes an underspend for the period				

The variances shown in Table 1 reflect the timing of when plant investment is placed into service. In general, once equipment is energized and placed into service to support electric load, capital costs are transferred from FERC Account 107 (Construction Work in Progress or CWIP) to FERC Account 106 (Plant-In-Service), which is when the underlying capital work becomes used and useful in the service of customers. This can differ by the type of plant and facility. For example, electric distribution line equipment is normally placed in service closer to the time it is installed because it is typically energized at that time and begins to support electric load and, therefore, is used and useful in the service of customers.

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Because electric distribution line equipment is typically energized as it is installed, a relatively significant amount of plant is placed into service as work progresses. By contrast, substation construction typically involves multi-year projects. Therefore, the assets must pass testing, the work must be commissioned, and the assets must be energized before they can be placed in service. Because substation construction is typically completed in one or more phases as part of a multi-year process, the assets will only be placed in service to serve customers once all work in a particular phase is completed.

Table 2 provides the total COR for FY 2018, which was \$9.8 million, which was approximately \$0.3 million over the forecast of \$9.6 million for FY 2018. The Non-Discretionary Sub-category was \$5.9 million, which was \$0.8 million over the annual planned amount of \$5.1 million. This variance was due primarily to higher spending in the Damage Failure category due to Major Storms. The Discretionary Sub-category was \$4.0 million, which was \$0.4 million under the annual planned amount of \$4.5 million.

Table 2

FY 2017 Cost of Removal by Category

	Annual ISR Forecast	Actual COR	Variance
Customer Request/Public Requirement	\$2,607,770	\$2,393,216	(\$214,554)
Damage Failure	\$2,528,000	\$3,558,090	\$1,030,090
Subtotal Non-Discretionary	\$5,135,770	\$5,951,306	\$815,536
Asset Condition	\$2,790,500	\$1,648,601	(\$1,141,899)
Non- Infrastructure	\$0	\$688	\$688
System Capacity & Performance	\$1,719,300	\$2,379,103	\$659,803
Subtotal Discretionary	\$4,509,800	\$4,028,392	(\$481,408)
Total Capital Investment in System	\$9,645,570	\$9,979,698	\$334,128
* () denotes an underspend for the period			

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#### II. FY 2018 Capital Spending Summary

As noted in in Section 1 above, to account for a recent adjustment provided in the revenue requirement in the Company's rate case in Docket No. 4770, the Company increased the actual ISR capital spending for FY 2018 as a result of an Administrative & General (A&G) activity time study. This A&G study was completed by a third party consulting firm. As a result of that review and supporting time study, the Company determined that an adjustment was necessary to capitalize work activity performed in direct or indirect support of construction consistent with commonly accepted industry practices and allowed for by the FERC Uniform System of Accounts. The total adjustment credited to expense and debited to capital is \$4.0 million. As a result, adjusted ISR spending for FY 2018 totaled \$107.1 million, which is \$6.5 million over the FY 2018 ISR budget of \$100.6 million. The Company has assigned these A&G costs to the appropriate spending categories in Table 3 below.

Table 3

FY 2018 Capital Spending by Category

	FY 2018 Total		
	Budget	Actual	Variance*
Customer Request/Public Requirement	\$21,853,000	\$19,627,243	(\$2,225,757)
Damage Failure	\$11,379,000	\$19,184,118	\$7,805,118
Subtotal Non-Discretionary	\$33,232,000	\$38,811,361	\$5,579,361
Asset Condition	\$17,207,000	\$17,241,994	\$34,994
Non-Infrastructure	\$553,000	\$362,242	(\$190,758)
System Capacity & Performance	\$23,855,000	\$25,905,316	\$2,050,316
Subtotal Discretionary (Without South Street)	\$41,615,000	\$43,509,552	\$1,894,552
South Street Project	\$25,773,000	\$24,737,128	(\$1,035,872)
Subtotal Discretionary	\$67,388,000	\$68,246,680	\$858,680
Total Capital Investment in System	\$100,620,000	\$107,058,041	\$6,438,041
* () denotes an underspend for the period			

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#### III. FY 2018 Capital Spending by Key Driver Category

#### 1. Non-Discretionary Spending

#### a. Customer Request/Public Requirement - \$2.2 million under-budget for FY 2018

Capital spending for FY 2018 in the Customer Request/Public Requirement category (previously called the Statutory/Regulatory category) was approximately \$19.7 million, which was \$2.2 million under the FY 2018 budget of \$21.9 million. This under-budget variance was driven primarily by the following under-budget projects:

- The net spending on "Distributed Generation" project spending was \$0.3 million, which results in a total under-budget balance of \$0.8 million. This variance was driven primarily by the Company's collection of reimbursements for prior and future capital spending on projects.
- Capital spending for FY 2018 on New Business Residential and Commercial projects was \$10.2 million, which was a combined \$3.6 million under the FY 2018 budget of \$13.8 million. This under-budget variance was driven primarily by capital spending on the liquefied natural gas (LNG) Plant service terminal in Providence, which was under-budget FY 2018 by approximately \$2.3 million. This variance was due to a reimbursement the Company received in FY 2018 (April 2017), which the Company expected in FY 2017 (March 2017).

Among the major projects in this category, the following over-budget projects offset these under-budgets projects:

- Capital spending for FY 2018 on the Citizens Bank Infrastructure Project was \$1.0 million. This project was not budgeted for the fiscal year.
- Capital spending for FY 2018 on Meter Purchases was \$2.6 million, which was \$0.8 million over the fiscal year budget of \$1.8 million due to the earlier than planned delivery of the meter inventory.
- Capital spending for FY 2018 on Transformer Purchases was \$2.8 million, which was \$0.7 million over the fiscal year budget of \$2.1 million due to the earlier than planned delivery of the transformer inventory.

Detailed budget and actual spending by budget classification for the Customer Request/Public Requirement category is shown in Table 4 below.

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# Table 4 FY 2018 Capital Spending Customer Request/Public Requirement Category

			FY 2018 Total	
Category	Budget Classification	Annual ISR Budget	Actual	Variance
	Third-party Attachments	\$204,000	\$122,982	(\$81,018)
	Distributed Generation	\$1,106,000	\$279,561	(\$826,439)
	Land and Land Rights	\$223,000	\$305,488	\$82,488
	Meters - Distribution	\$1,786,000	\$2,627,007	\$841,007
Customer	New Business – Commercial	\$8,183,000	\$5,625,623	(\$2,557,377)
Request/Public	New Business – Residential	\$5,617,000	\$4,617,523	(\$999,477)
Requirement	Outdoor Lighting – Capital	\$153,000	\$185,321	\$32,321
	Public Requirement	\$2,521,000	\$3,078,000	\$557,000
	Transformers & Related Equipment	\$2,060,000	\$2,785,737	\$725,737
	Customer Request/Public Requirement Sub-Total	\$21,853,000	\$19,627,243	(\$2,225,757)

<sup>\* ( )</sup> denotes an underspend for the period

#### b. Damage/Failure - \$7.8 million over-budget for FY 2018

Capital spending for FY 2018 in the Damage/Failure category was \$19.2 million, which was approximately \$7.8 million over the FY 2018 budget of \$11.4 million for this category. This variance was driven primarily by the following over-budget projects:

- Capital spending on the Storm Capital Confirming program was \$7.8 million which was \$6.2 million over the FY 2018 budget of approximately \$1.6 million. The October 29, 2017 Wind/Rain Storm and the March 1, 2018 Wind/Snow Storm were the two largest weather events contributing \$2.6 million and \$2.2 million, respectively in this category.
- Capital spending on the Ocean Street Damage/Failure Blanket was \$11.4 million which was \$1.6 million over the FY 2018 budget of \$9.8 million. The Company monitors charges to this blanket to minimize discretionary work from being incorrectly charged to this project.

Detailed budget and actual spending by budget classification for the Damage/Failure category is shown in Table 5 below.

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#### Table 5

## FY 2018 Capital Spending Damage/Failure Category

		FY 2018 Total		
Category	Budget Classification	Annual ISR Budget	Actual	Variance
	Damage/Failure	\$9,828,000	\$11,422,838	\$1,594,838
	Substation	\$0	\$2,869	\$2,869
Damage/Failure	Major Storms - Distribution	\$1,551,000	\$7,758,410	\$6,207,410
	Damage/Failure Sub-Total	\$11,379,000	\$19,184,118	\$7,805,118

<sup>\* ( )</sup> denotes an underspend for the period

In summary, capital spending for FY 2018 in the entire Non-Discretionary category was \$38.8 million, which was \$5.6 million over the fiscal year budget of \$33.2 million driven primarily by the Major Storms in the Damage Failure category.

#### 2. Discretionary Spending

#### a. Asset Condition - \$34,994 over-budget for FY 2018

Capital spending for FY 2018 YTD in the Asset Condition category (absent the South Street project) was approximately \$17.24 million, which was \$34,994 over the FY 2018 budget of approximately \$17.20 million. The total variance for this category was driven primarily by the following under-budget projects:

- Capital spending for FY 2018 on the Underground Residential Development Injection/Rehabilitation projects was \$1.9 million, which was approximately \$0.9 million under the fiscal budget of approximately \$2.8 million.
- Capital spending for FY 2018 for the West Cranston Transformer project was approximately \$0.5 million for the fiscal year, which was \$0.5 million under the fiscal year budget of \$1.0 million due to project schedule partially phased out in FY 2019.

Among the major projects in this category, the following over-budget projects offset these under-spending projects:

• Capital spending for FY 2018 for the Ocean State Asset Replacement Blanket was approximately \$3.0 million, which was \$0.7 million over the fiscal year budget of

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\$2.3 million. This variance was due to higher than anticipated spending on small-scale asset replacement work.

• The Company advanced an unbudgeted project to replace the extremely deteriorating structure and equipment at the Geneva Substation. The Company spent \$0.4 million on the project, and construction is complete.

#### b. Asset Condition - South Street - \$1.0 million under-budget variance for FY 2018.

Capital spending for FY 2018 on the South Street Indoor Substation Replacement project was \$24.7 million, which is \$1.0 million under the fiscal year budget of \$25.8 million. The primary driver for this variance was the current capital overhead allocations, which were lower than the original estimates.

Detailed budget and actual spending by budget classification for the Asset Condition category is shown in Table 6 below.

Table 6

FY 2018 Capital Spending
Asset Condition Category

	FY	2018 Total	
Budget Classification	Annual ISR Budget	Actual	Variance
Asset Replacement	\$14,954,000	\$14,613,719	(\$340,281)
Asset Replacement – South Street	\$25,773,000	\$24,737,128	(\$1,035,872)
Asset Replacement - I&M	\$1,600,000	\$1,282,446	(\$317,554)
Outdoor Lighting- Capital	\$0	\$25,058	\$25,058
Reliability	\$236,000	\$657,685	\$421,685
Safety	\$417,000	\$211,833	(\$205,167)
Substation	\$0	\$451,253	\$451,253
Asset Condition Sub-Total	\$42,980,000	\$41,979,121	(\$1,000,879)

<sup>\* ( )</sup> denotes an underspend for the period

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#### c. Non-Infrastructure - \$0.2 million under-budget for FY 2018

Capital spending for FY 2018 for the Non-Infrastructure category was approximately \$0.4 million, which was \$0.2 million under the FY 2018 budget of approximately \$0.6 million. The primary driver of this variance is lower than budgeted general equipment purchases.

Detailed budget and actual spending by budget classification for the Non-Infrastructure category is shown in Table 7 below.

Table 7

FY 2018 Capital Spending
Non-Infrastructure Category

	FY	FY 2018 Total		
Budget Classification	Annual ISR Budget	Actual	Variance	
General Equipment - Distribution	\$378,000	\$207,007	(\$170,993)	
Telecommunications	\$175,000	\$116,540	(\$58,460)	
Other	\$0	\$38,695	\$38,695	
Non-Infrastructure Sub-Total	\$553,000	\$362,242	(\$190,758)	

<sup>\* ( )</sup> denotes an underspend for the period

#### d. System Capacity & Performance - \$2.0 million over-budget for FY 2018

Capital spending for FY 2018 for the System Capacity and Performance category was \$25.9 million, which was approximately \$2.0 million over the FY 2018 budget of approximately \$23.9 million. This variance was driven primarily by the following overbudget projects:

- Capital spending for FY 2018 on the Aquidneck Island projects was \$6.2 million which was approximately \$1.9 million over the budget of \$4.3 million for the project. The variance was primarily due to first milestone payment to EPC contractor was earlier than original plan.
- Capital spending for FY 2018 on the Quonset Substation Expansion project was approximately \$3.9 million, which was \$1.1 million over the FY 2018 budget of \$2.8 million. This variance was driven by a higher labor cost estimate than planned.

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- Capital spending for FY 2018 on the Volt/Var D-Line Project was approximately \$1.7 million, which was \$0.3 million over the fiscal year budget of \$1.4 million. The variance was primarily due to higher communications solution than initially budgeted for the project.
- Capital spending for FY 2018 on the New Highland Drive Substation project was \$1.5 million, which was \$0.2 million over the FY 2018 budget of \$1.3 million for the project.

Major projects in this category that offset these over-budget projects were:

- Capital spending for FY 2018 on the New London projects was \$4.3 million, which was approximately \$1.4 million under the FY 2018 budget of \$5.7 million for the project. The variance was primarily due to a slight delay in start of construction than originally planned.
- Capital spending for FY 2018 on the Chase Hill projects was \$3.0 million, which was approximately \$0.8 million under the FY 2018 budget of \$3.8 million due to the advancement of the project in FY 2017.

Detailed budget and actual spending by budget classification for the System Capacity & Performance category is shown in Table 8 below.

## <u>Table 8</u>

#### FY 2018 Capital Spending System Capacity & Performance Category

			FY 2018 Total	
Category	Budget Classification	Annual ISR Budget	Actual	Variance
	Load Relief	\$21,079,000	\$21,497,320	\$418,320
System Capacity &	Corporate/Admin/General	\$0	\$18,814	\$18,814
Performance	Reliability	\$2,558,000	\$4,145,191	\$1,587,191
	Substation	\$218,000	\$243,991	\$25,991
	System Capacity & Performance Sub-Total	\$23,855,000	\$25,905,316	\$2,050,316

<sup>\* ( )</sup> denotes an underspend for the period

In summary, capital spending for FY 2018 in the entire Discretionary category was \$68.2 million, which was \$0.8 million over the fiscal year budget of \$67.4 million. This overbudget variance was predominately driven by higher spending in the System Capacity & Performance category. The Company strived to manage the over and under-budget spending on the remaining discretionary projects thru the fiscal year to achieve an overall

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discretionary portfolio approximate to the \$41.6 million discretionary budget that excluded the South Street project. The South Street project, managed within a separate discretionary sub-category, was on plan and came in 4% under its annual budget of \$25.8 million.

Finally, in Docket No. 4473, the PUC ordered the Company to include, beginning with the FY 2017 Electric ISR Plan filing, a proposal to identify and report in quarterly and annual reconciliation filings the projects that exceeded or were under the fiscal year-to-date and fiscal year-end budgets by ten percent (10%).<sup>2</sup> For the identified projects, the Company must note whether variances were due to the project being accelerated or delayed, or whether the variances were due to an increase or decrease in total project cost. The Company agreed to provide in the quarterly reports explanations for the portfolio of large projects<sup>3</sup> with variances that exceed +/- 10% of the annual fiscal year budget. These projects represented approximately \$24.4 million of the total FY 2018 budget of \$100.6 million. Specific project information is provided in Table 9 below.

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<sup>&</sup>lt;sup>2</sup> Docket No. 4473 Order No. 21559 at p. 25.

<sup>&</sup>lt;sup>3</sup> Large projects are defined as exceeding \$1.0 million in total project cost.

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## <u>Table 9</u> FY 2018 Project Variance Report

	FY 2018 Total				
Project Description	Project Funding	Budget	Actual	Variance	Variance Cause
Aquidneck Island Projects (Gate 2, New port, Jepson)	CD00649, C024159, C015158, C028628, C054054, CD00656	\$4,302	\$6,419	\$2,117	First milestone payment to EPC contractor performed in FY18, but no change to overall project cost.
Citizens Bank Infrastructure	C073957	\$0	\$993	\$993	Emergent mandatory customer project.
Volt∕Var Program	C077201, C075571, C053111, C076367, C046352, C075573, C076365, C077200, C053488, C052708	\$1,400	\$1,674	\$274	Construction completed in Q4. Communication solution higher than initial budget.
New Highland Drive Distribution	CD00978	\$1,329	\$1,568	\$239	Higher labor cost than initial budget. No change to project scope.
Franklin Square Breaker Replacements	C068686	\$1,450	\$1,947	\$497	Schedule breaker carryover of w ork from FY 2017.
New London Avenue Substation	C028920, C028921	\$5,670	\$4,342	(\$1,328)	Construction start slightly delayed from original plan to ensure safety conrols were in place for high risk blasting activity. No change to overall project.
West Cranston Transformer Replacement	C055844	\$1,008	\$474	(\$534)	Project schedule partially phased to FY 2019. No change to project scope.
Quonset Sub D-Line and D-Sub	C053646,C053647	\$2,789	\$3,867	\$1,078	Increase in labor cost estimate from planning to project grade estimate. No change to project scope.
Chase Hill D-Line and D-Sub	C024175,C024176	\$3,856	\$3,135	(\$721)	Advanced project in FY 2017
LNG D-Line and D-Sub	C051203,C051204	\$2,283	(\$46)	(\$2,329)	Reimbursement planned to occur in FY 2017 when budget was set. Reimbursement received in FY 2018.
		\$24,087	\$24,373	\$286	

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#### 3. FY 2018 Work Plan Accomplishments

Table 10 below provides actual work plan accomplishments against the goals of the FY 2018 work plan.

Table 10

FY 2018 Work Plan Accomplishments

Program Type	FY 2018 Goals	FY 2018 Accomplishments	Comments
Distribution Transformer Upgrades	150	150	100% Complete
I&M Program	N/A	3,780	3 Feeders 100% Complete
Substation Battery Replacement Program	4	4	100% Complete
Substation Breaker Replacement Program	12	13	108% Complete

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#### IV. FY 2018 Vegetation Management

For FY 2018, the Company completed 1,233 miles or 100% of its annual distribution mileage cycle pruning goal of 1,233 miles. This represents an associated spend of 99% of the FY 2018 budget for the cycle pruning program. As noted in the FY 2018 Electric ISR third quarter report, the mileage total was reduced from the original 1,270 miles which was forecast to account for mileage which will be deferred to FY 2019. For FY 2018, the Company's VM operation and maintenance (O&M) spending was \$9.5 million which was \$0.1 million over the budget of \$9.4 million.

Table 11 below provides the FY 2018 spending for all sub-components in the VM category.

Table 11

FY 2018 Vegetation Management O&M Spending

	FY 2018 Annual ISR Budget	FY 2018 Actual Spend	Variance of Actual to Budget*	FY 2018 % Spend
Cycle Pruning (Base)	\$5,500,000	\$5,457,596	(\$42,404)	99%
Hazard Tree	\$1,250,000	\$1,113,119	(\$136,881)	89%
Sub-T (on & off road)	\$650,000	\$467,925	(\$182,075)	72%
Police/Flagman Details	\$775,000	\$910,074	\$135,074	117%
Core Crew (all other activities)	\$1,225,000	\$1,566,586	\$341,586	128%
Total VM O&M Spending	\$9,400,000	\$9,515,300	\$115,300	101%

		FY 2018	FY 2018 %
	FY 2018 Goal	Complete	Complete
Distribution Mileage Trimming	1,233	1,233	100%

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#### V. FY 2018 Inspection and Maintenance

For FY 2018, the Company completed 100% of its annual structure inspection goal of 53,128 with an associated spend of approximately \$0.5 million, or approximately 73% of the Repair and Inspections Related Cost subcategory budget. The Repairs and Inspection Related Costs subcategory forecast includes the FY 2018 mobile elevated voltage testing and repairs, which the PUC approved in Docket No. 4237. Table 12 below provides the total FY 2018 spending for all components in the I&M category.

Table 12
Inspection and Maintenance O&M Spending
FY 2018

	FY 2018 Annual ISR Budget	FY 2018 Actual Spend	Variance*	FY 2018 % Spent
Opex Related to Capex	\$362,000	\$143,357	(\$218,643)	40%
Repair & Inspections Related Costs	\$623,000	\$454,713	(\$168,287)	73%
System Planning & Protection Coordination Study	\$25,000	\$17,600	(\$7,400)	70%
VVO/CRV Program	\$60,000	\$69,074	\$9,074	115%
Total I&M O&M Spending	\$1,070,000	\$684,744	(\$385,256)	64%
* ( ) denotes an underspend for the period				

	FY 2018 Goal	FY 2018	FY 2018 %
	F 1 2016 Goal	Completed	Completed
RI Distribution Overhead Structures Inspected	53,128	53,128	100%

The Company began performing inspections on its overhead distribution system in FY 2011. In FY 2012, the Company began performing the repairs based on those inspections. The Company categorizes the deficiencies found as Level I, II, or III, and repairs Level I deficiencies either immediately or within approximately one week of the inspection. The Company bundles Level II and III work for planned replacement. As the end of FY 2018, the Company has completed repairs reported for approximately 31% of the total deficiencies found. Total deficiencies found and repairs made-to-date is shown in the table below.

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Summary of Deficiencies and Repair Activities RI Distribution					
Year Inspection Performed	Priority Level/Repair Expected	Deficiencies Found (Total)	Repaired as of 3/31/18	Not Repaired as of 3/31/18	
		18	18	0	
FY 2011	=	13,146	13,128	18	
		28	28	0	
	I	17	17	0	
FY 2012	II	15,847	15,454	393	
	III	626	567	59	
	I	15	15	0	
FY 2013	II	26,877	16,145	10,732	
	III	9,052	4,598	4,454	
	I	11	11	0	
FY 2014	II	23,196	2,727	20,469	
		8,776	1,455	7,321	
	I	5	5	0	
FY 2015		21,549	1	21,548	
	III	4,391	0	4,391	
		2	2	0	
FY 2016	II	11,596	0	11,596	
		6,498	0	6,498	
	I	2	2	0	
FY 2017	II	8,300	0	8,300	
	III	7,539	0	7,539	
		9	9	0	
FY 2018	II	8,821	0	8,821	
	III	7,237	0	7,237	
Total Since Program Inception	I, II, III	173,558	54,182	119,376	

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		FY 2018 -	· I&M Level 1 Defici	encies Repaired		
Year Inspection Performed	Deficiencies Found	Structure Number	Location	Description of Work Performed	Inspection Date	Repaired Date
	1	96	Main Rd., Tiverton	Repaired floating insulator	5/11/2017	5/12/2017
	1	91	Armistice Blvd., Pawtucket	Repaired broken neutral	6/14/2017	6/14/2017
	1	21	Cleveland St., Pawtucket	Cut down street light service wire	6/19/2017	6/19/2017
	1	16	Lafayette St., Pawtucket	New service and secondary pole	6/26/2017	6/29/2017
2017	1	11	Chambers St., Cumberland	Troubleman disconnected and cut down due to st light service hot on ground	8/16/2017	8/16/2017
	1	85-30	Roosevelt Ave., Central Falls	Replaced nomenclature. Completed in field by TW per OH Sup. 12/23/2017	12/21/2017	12/23/2017
	1	13	General St., Providence	Limbs removed from primary	12/27/2017	12/28/2017
<u> </u>	1	2	Middle Dr.,Providence	Limbs removed from secondary	1/9/2018	1/18/2018
2049	1	16	Major Potter Rd., Warwick	Repaired damaged crossarm	1/18/2018	1/20/2018
2018	1 45		Benefit St., Pawtucket	Reattached primary to insulator	1/25/2018	1/25/2018
	1	54-30	Broadway, Newport	Non working switch, taps lifted	2/23/2018	2/27/2018
	1	1	Diamond Hill Rd., Warwick	Nomenclature added	3/20/2018	4/3/2018

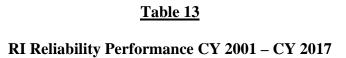
As shown in the table below, results of the Company's manual elevated voltage testing for FY 2018 have indicated five instances of elevated voltages found through either overhead or manual elevated voltage inspections.

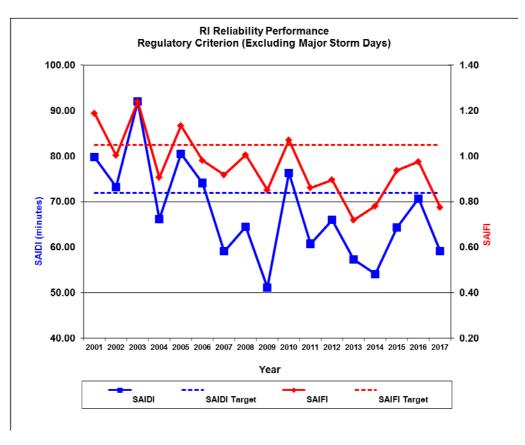
Manual Elevated Voltage Testing					
Manual Elevated Voltage Testing	Total System Units Requiring Testing	FY 2018 Units Completed thru 3/31/18	Units with Voltage Found (>1.0v)	Percent of Units Tested with Voltage (>1.0v)	
Distribution Facilities	250,441	51,325	2	0%	
Underground Facilities	13,870	2,217	0	0%	
Street Lights	5,885	1,520	3	0%	

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#### VI. Reliability Performance

The Company met both its System Average Interruption Frequency Index (SAIFI) and System Average Interruption Duration Index (SAIDI) performance metrics in CY 2017, with SAIFI of 0.775 against a target of 1.05, and SAIDI of 59.10 minutes, against a target of 71.9 minutes. The Company's annual service quality targets are measured excluding major event days.<sup>4</sup> A comparison of reliability performance in CY 2017 relative to that of previous years is shown in Table 13 below. The Company's performance has shown an improving downward trend over the past several years with major event days excluded.





<sup>&</sup>lt;sup>4</sup> Major Event Day (MED) is defined as a day on which the daily system SAIDI exceeds a MED threshold value (4.58 minutes for CY 2017). For purposes of calculating daily system SAIDI, any interruption that spans multiple calendar days is accrued to the day on which the interruption began. Statistically, days having a daily system SAIDI greater than the MED A are days on which the energy delivery system experiences stress beyond that normally expected, such as during severe weather.

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CY 2017 had four days that were characterized as a major event day. Table 14 below provides additional details including the event, dates, the total number of customers interrupted, and the daily SAIDI performance metric.

<u>Table 14</u>
CY 2017 Major Event Days

Event	Days Excluded	Total Customers Interrupted	Daily SAIDI
Winter Storm Niko	2/9/2017	31,638	11.2
October Storm	10/29/2017	91.074	389.17
October Storm	10/30/2017	/8.921	268.24
October Storm	10/31/2017	2.318	6.91

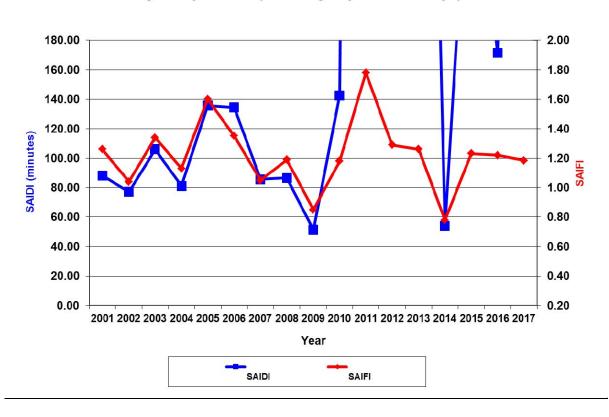
Reliability performance, including major event days, is shown in Table 15 below for CY 2001 through CY 2017. SAIDI for 2011, including major event days, exceeds the scale of the chart, at 1,947 minutes (32.5 hours). This was driven by Tropical Storm Irene. CY 2011 through CY 2013 indicates the greatest differences between performance with and without major event days. In CY 2011, the Company experienced ten major events days from five separate events. Tropical Storm Irene and the October Snowstorm accounted for seven of those major event days. In CY 2012, the Company experienced four major event days from two separate events. Hurricane Sandy accounted for three of those major event days. In CY 2013, the Company experienced three major events days from two separate events. The February 8th Nor'easter accounted for two of those major event days. In CY 2014, the Company did not experience any major event days, and in CY 2015, the Company experienced only one major event day. For CY 2016, the Company experienced four major event days. While typically a major event day is interpreted to mean a calendar day, since the Labor Day weekend storm began mid-day September 5, 2016, the events of the following day, September 6, 2016, were also considered in determining the storm's impact and it qualifying as a Major Event Day.

As shown in Table 14, for CY 2017, the Company experienced four major event days from two separate storms. October 2017 storm accounted for three of the four major storm days.

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<u>Table 15</u>
RI Reliability Performance CY 2001 – CY 2017

### RI Reliability Performance Regulatory Criteria (Including Major Storms Days)



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ANNUAL RECONCILIATION FILING
WITNESS: MELISSA A. LITTLE

### PRE-FILED DIRECT TESTIMONY

**OF** 

**MELISSA A. LITTLE** 

August 1, 2018

## THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID RIPUC DOCKET NO. 4682 FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING WITNESS: MELISSA A. LITTLE

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III.	Conclusion	.16

d/b/a NATIONAL GRID RIPUC DOCKET NO. 4682

### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

ANNUAL RECONCILIATION FILING WITNESS: MELISSA A. LITTLE

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1	I.	<u>Introduction</u>
2	Q.	Please state your full name and business address.
3	A.	My name is Melissa A. Little, and my business address is 40 Sylvan Road, Waltham,
4		Massachusetts 02451.
5		
6	Q.	Please state your position.
7	A.	I am a Director for New England Revenue Requirements in the Regulation and Pricing
8		department of National Grid USA Service Company, Inc. (Service Company). The
9		Service Company provides engineering, financial, administrative, and other technical
10		support to subsidiary companies of National Grid USA (National Grid). My current
11		duties include revenue requirement responsibilities for National Grid's electric and gas
12		distribution activities in New England, including the electric operations of The
13		Narragansett Electric Company d/b/a National Grid (Narragansett or the Company).
14		
15	Q.	Please describe your education and professional experience.
16	A.	In 2000, I received a Bachelor of Science degree in Accounting Information Systems
17		from Bentley College (now Bentley University). In September 2000, I joined
18		Pricewaterhouse Coopers LLP in Boston, Massachusetts, where I worked as an associate
19		in the Assurance practice. In November 2004, I joined National Grid in the Service
20		Company as an Analyst in the General Accounting group. After the merger of National
21		Grid and KeySpan in 2007, I joined the Regulation and Pricing department as a Senior

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1		Analyst in the Regulatory Accounting function, also supporting the Niagara Mohawk
2		Power Corporation Revenue Requirement team. I was promoted to Lead Specialist in
3		July 2011 and moved to the New England Revenue Requirement team. In August 2017, I
4		was promoted to my current position.
5		
6	Q.	Have you previously testified before the Rhode Island Public Utilities Commission
7		(PUC)?
8	A.	Yes. Among other testimony, I testified in support of the Company's revenue
9		requirement (1) for Narragansett, in the 2017 general rate case filing in Docket No. 4770;
10		(2) for Narragansett Electric, in the Fiscal Year 2018 Electric Infrastructure, Safety, and
11		Reliability (ISR) Plan filing in Docket No. 4682; and (3) for Narragansett Gas, in the Gas
12		ISR Plan and reconciliation filings for FY 2016 in Docket No. 4540 and FY 2017 in
13		Docket No. 4590, and the Gas ISR Plan filing for FY 2018 in Docket No. 4678.
14		
15	Q.	What is the purpose of your testimony?
16	A.	In this docket, the PUC approved a new Electric ISR factor, which went into effect on
17		April 1, 2017. That factor was based on a projected FY 2018 ISR revenue requirement of
18		\$26,837,179 for the estimated operation and maintenance (O&M) work associated with
19		the Company's vegetation management (VM) and inspection and maintenance (I&M)
20		programs for the Company's FY ended March 31, 2018, and on the estimated ISR plant
21		additions during the Company's FY ended March 31, 2018 and 2017, on the actual ISR

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

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additions during the Company's FY ended March 31, 2016, 2015, 2014,2013, and 2012,
which were incremental to the levels reflected in rate base in the Company's last base
rate case (Docket No.4323). The purpose of my testimony is to present an updated FY
2018 ISR revenue requirement associated with actual FY 2018 O&M programs, the FY
2012 through FY 2018 incremental plant additions, and actual tax deductibility
percentages for FY 2017 capital additions totaling \$38,904, as well as true-ups for
vintage years FY 2013 through FY 2016 related to the work order write off adjustment
(discussed below) totaling \$(560,347) and the impact to Property Taxes of \$(589); and
true-up for vintage years FY 2012 through FY 2016 related to Transmission-related tax
net operating losses (NOLs) \$(932,091), also discussed below.
At this time, the Company's Tax Department estimates it will earn taxable income in FY
At this time, the Company's Tax Department estimates it will earn taxable income in FY 2018, and therefore no NOL offset to accumulated deferred income taxes has been
2018, and therefore no NOL offset to accumulated deferred income taxes has been
2018, and therefore no NOL offset to accumulated deferred income taxes has been estimated for FY 2018. The Company's Tax Department calculated taxable income
2018, and therefore no NOL offset to accumulated deferred income taxes has been estimated for FY 2018. The Company's Tax Department calculated taxable income when the Company closed it books for FY 2018, which has formed the basis for the
2018, and therefore no NOL offset to accumulated deferred income taxes has been estimated for FY 2018. The Company's Tax Department calculated taxable income when the Company closed it books for FY 2018, which has formed the basis for the estimate in this reconciliation. Actual tax deductibility percentages for FY 2018 plant
2018, and therefore no NOL offset to accumulated deferred income taxes has been estimated for FY 2018. The Company's Tax Department calculated taxable income when the Company closed it books for FY 2018, which has formed the basis for the estimate in this reconciliation. Actual tax deductibility percentages for FY 2018 plant additions will not be known until the Company files its FY 2018 income tax return in
2018, and therefore no NOL offset to accumulated deferred income taxes has been estimated for FY 2018. The Company's Tax Department calculated taxable income when the Company closed it books for FY 2018, which has formed the basis for the estimate in this reconciliation. Actual tax deductibility percentages for FY 2018 plant additions will not be known until the Company files its FY 2018 income tax return in December 2018. Consequently, the actual tax deductibility percentages for FY 2018

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

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The updated FY 2018 revenue requirement also includes an adjustment associated with the property tax recovery formula that was approved in Docket No. 4323. The property tax recovery adjustment became effective for periods subsequent to the rate year in Docket No. 4323, which ended on January 31, 2014. Accordingly, the property tax recovery adjustment covers only the months of February and March of 2014 and the 12-month periods ended March 31, 2015, March 31, 2016, March 31, 2017 and March 31, 2018.

As shown on Attachment MAL-1, Page 1 at Line 19, the updated FY 2018 ISR revenue requirement collectible through the Company's ISR factor for the FY 2018 period,

including updated tax deductibility percentages for FY 2017, the one-time catch up adjustment related to the transmission-related NOL, and work order write off impact on

prior fiscal years' revenue requirements, totals \$22,717,639. This is a decrease of

\$4,119,540 from the projected FY 2018 Electric ISR revenue requirement of \$26,837,179

previously approved by the PUC. This decrease is primarily attributable to a reduction in

the recovery of property taxes and I&M costs, as well as a decrease in income taxes due

to the change in the federal income tax rate from 35 percent to 21 percent, partially offset

by the revenue requirement on increased capital investment and corresponding rate base

over the estimated amount of capital investment and rate base in the FY 2018 Electric

ISR Plan for vintage years FY 2018 and 2017.

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### THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

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1	Q.	Are there any schedules attached to your testimony?
2	A.	Yes, I am sponsoring the following Attachment with my testimony:
3 4 5 6		<ul> <li>Attachment MAL-1: Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing</li> </ul>
7	II.	ISR FY 2018 Revenue Requirement
8	Q.	Did the Company calculate the updated FY 2018 ISR revenue requirement in the
9		same fashion as calculated in the previous ISR Factor submissions and the August
10		2017 ISR factor reconciliation?
11	A.	Yes, the Company calculated the FY 2018 Electric ISR Plan revenue requirement in the
12		same fashion as calculated in the previous Electric ISR Factor submissions with the
13		following exceptions: As noted in Section 5 of the FY 2018 Electric ISR Plan, the
14		Company's FY 2018 revenue requirement includes the impact of the Tax Cuts and Jobs
15		Act of 2017 (Tax Act) on vintage FY 2012 through FY 2018 investment. On December
16		22, 2017, the Tax Act went into effect. The Tax Act has many elements, but two
17		particular aspects have an impact on the Electric ISR revenue requirement. The first is the
18		reduction of the federal income tax rate from 35 percent to 21 percent commencing
19		January1, 2018. The second Tax Act element affecting the Electric ISR revenue
20		requirement is changes to the bonus depreciation rules eliminating bonus depreciation for
21		certain capital investments, including ISR-eligible investments, effective September 28,
22		2017. The change in bonus depreciation rules specifically impacts the tax depreciation

that the Company calculated in its original Electric ISR filing for its vintage FY 2018

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

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	revenue requirement calculation. Unlike the reduction to the Company's revenue
	requirement for the decrease in the federal income tax rate, the change to the bonus
	depreciation rules has an increasing effect on the Electric ISR revenue requirement which
	I discuss later in my testimony.
	Other than these changes, the updated FY 2018 ISR revenue requirement calculation is
	nearly identical to the ISR revenue requirement used for developing the approved ISR
	factors that became effective April 1, 2017, and as described in previous testimony in this
	proceeding, incorporates updated ISR investment amounts and known tax deductibility
	percentages. I will rely on the testimony included in the Company's FY 2018 Plan
	Proposal for a detailed description of the revenue requirement calculation, and will limit
	this testimony to summarizing the revenue requirement, and the update for the known tax
	deductibility percentages.
Q.	How was the Electric ISR revenue requirement revised for the change in the federal
	income tax rate from 35 percent to 21 percent?
A.	The decrease in the federal income tax rate from 35 percent to 21 percent reduced the
	amount of income tax to be recovered from customers on the return on equity component
	of each Electric ISR vintage year revenue requirement. The return on rate base in each
	revenue requirement is calculated by multiplying the Electric ISR rate base times the
	weighted average cost of capital (WACC). The equity component of the return on rate

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base is the taxable component of the Electric ISR revenue requirement. The federal
income taxes that the Company must recover from customers are derived by grossing up
the WACC to a pre-tax rate of return. Consequently, the Company revised the pre-tax
WACC to reflect the change in the federal income tax rate. The calculation of the revised
pre-tax WACC is shown on Page 26 of Attachment MAL-1. The pre-tax WACC
approved in Docket No. 4323 was 9.68 percent at the 35 percent tax rate as shown, on
Page 26. The new pre-tax WACC at the 21 percent tax rate, which became effective
January 1, 2018, is 8.41 percent. The Company used a blended WACC of 9.36 percent to
calculate the return on rate base on the FY 2018 column of each vintage year revenue
requirement calculation, as the 35 percent federal income tax rate was in effect for nine
months of FY 2018 (April to December) and the 21 percent federal income tax rate was in
effect for three months of FY 2018 (January to March).
Were there any other revisions to the Electric ISR revenue requirement that were
the result of the change in the federal income tax rate from 35 percent to 21 percent?
Yes, effective December 31, 2017, the Company must restate all of its deferred tax
balances based on the new 21 percent federal income tax rate because the Company will
balances based on the new 21 percent federal income tax rate because the Company will be paying income taxes as the book/tax timing differences reverse at that 21 percent
be paying income taxes as the book/tax timing differences reverse at that 21 percent

Q.

A.

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

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Income Taxes has been added to each vintage year's revenue requirement calculation
reflecting the value of the decrease to ISR rate base as of December 31, 2017. These
excess deferred income taxes represent the net benefit as of December 31, 2017 that will
eventually be earned by the Company through reduced future income taxes, and
ultimately passed back to customers through base rates, along with non-ISR embedded
plant-related excess deferred taxes and non-plant excess deferred taxes. The period of
time which the pass back of the plant-related excess deferred taxes to customers will take
place will be over the average life of the Company's plant assets, in accordance with the
"protected" plant-related excess deferred tax provisions of the Tax Act. The Company is
currently in the process of calculating the amount of excess deferred taxes and the period
of time to return that amount to customers in connection with the Company's pending
general base distribution rate case, Docket No. 4770.
Please describe the calculation of the excess deferred income tax amounts.
The excess deferred income taxes are calculated on Page 25 of Attachment MAL-1. The
Company derived the excess deferred income tax amounts by calculating the balance of

ISR deferred taxes as of December 31, 2017 by vintage fiscal year, and multiplying that

amount by the 14 percent change in the tax rate (35 percent minus 21 percent).

counteract this artificial increase to rate base, a new line item called Excess Deferred

Q.

A.

### THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

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1 Q. How was the Electric ISR revenue requirement revised for the change in the bonus
2 depreciation rules resulting from the Tax Act?

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Bonus depreciation, sometimes known as first year bonus depreciation, is an accelerated tax depreciation method that was established first in 2002 as an economic stimulus to incent U.S. corporations to increase capital investments. Bonus depreciation allows companies to take an immediate tax deduction for some portion of certain qualified capital investments based on the bonus depreciation rates in effect for that year of investment. Bonus depreciation rates have ranged from a high of 100 percent in some years, to as low as 30 percent for calendar 2019 as was specified in the tax laws prior to the passage of the Tax Act. Pursuant to those prior tax laws, bonus depreciation was set to expire at the end of calendar year 2019. As described previously in my testimony, the Tax Act changed the rules for bonus depreciation by eliminating bonus depreciation for certain capital investments, including ISR eligible investments, effective September 28, 2017. Accordingly, the tax depreciation calculation on page 3 has been updated to modify the calculation of bonus depreciation on actual vintage FY 2018 Electric ISR Plan capital investment. Bonus depreciation for FY 2018 in the Company's FY18 Plan filing was based on bonus depreciation rates of 50 percent and 40 percent for calendar years 2017 to 2018, respectively; however, pursuant to the Tax Act, bonus depreciation is no longer an eligible deduction as of September 28, 2017. Investment in vintage FY 2018 Electric ISR capital projects occurred over the period April 1, 2017 through March 31, 2018. Since the September 28, 2017 effective date of the change to the bonus

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depreciation rules occurred during FY 2018, the Company's calculation of vintage FY

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2		2018 tax depreciation on page 3 of Attachment MAL-1 was adjusted to reflect bonus
3		depreciation eligibility for only a portion of FY 2018.
4		
5	Q.	You stated previously in your testimony that the change to the federal income tax
6		rate from 35 percent to 21 percent reduced the amount of revenue needed to recover
7		from customers, however the change to the bonus depreciation rules under the Tax
8		Act has the opposite effect on the revenue requirement. Please explain how the
9		bonus depreciation rule changes increase the revenue requirement.
10	A.	As described previously, bonus depreciation is a form of accelerated depreciation. This
11		means the Company is able to depreciate assets on its income tax returns faster than it
12		depreciates those assets on its books. The difference between tax depreciation and book
13		depreciation is referred to as book/tax timing differences. Deferred income taxes are
14		calculated by multiplying book/tax timing differences by the federal income tax rate.
15		ISR-related deferred income taxes are liabilities for income taxes that will eventually be

paid to the federal government when the underlying book/tax timing difference reverses.

Deferred income taxes reflect the net cash benefit that the Company receives as a result

reduction to rate base upon which the Company earns a return in the Electric ISR revenue

which results in an increase in rate base over the levels included in the originally-filed FY

requirement calculation. Lower deferred taxes results in a lower reduction to rate base,

of accelerated tax depreciation, and this benefit is passed along to customers as a

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

ANNUAL RECONCILIATION FILING WITNESS: MELISSA A. LITTLE

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1		2018 Electric ISR Plan. The change in the bonus depreciation rules pursuant to the Tax
2		Act have reduced the amount of bonus depreciation in the vintage FY 2018 tax
3		depreciation calculation from the amount of bonus depreciation reflected in the original
4		Electric ISR Plan. This lower level of deferred income taxes results in a reduced offset to
5		Electric ISR rate base, therefore increasing Electric ISR rate base which increases the
6		corresponding return on rate base. The increase in the return on rate base in turn
7		increases the revenue requirement on vintage 2018 Electric ISR investment, partially
8		mitigating the decrease in the revenue requirement for that year as a result of the decrease
9		in the federal income tax rate from 35 percent to 21 percent.
10		
11		
<ul><li>11</li><li>12</li></ul>	Q.	Are there any updates to the FY 2017 revenue requirement that are being trued up
	Q.	Are there any updates to the FY 2017 revenue requirement that are being trued up in the FY 2018 Electric ISR Reconciliation?
12	Q.	
12 13		in the FY 2018 Electric ISR Reconciliation?
12 13 14		in the FY 2018 Electric ISR Reconciliation?  Yes. The Company filed its FY 2017 Electric ISR Reconciliation on August 1, 2017.
12 13 14 15		in the FY 2018 Electric ISR Reconciliation?  Yes. The Company filed its FY 2017 Electric ISR Reconciliation on August 1, 2017.  However it had not filed its FY 2017 income tax return until later that year in the month
12 13 14 15 16		in the FY 2018 Electric ISR Reconciliation?  Yes. The Company filed its FY 2017 Electric ISR Reconciliation on August 1, 2017.  However it had not filed its FY 2017 income tax return until later that year in the month of December. As a result, the Company used certain tax assumptions, and the Company
12 13 14 15 16 17		in the FY 2018 Electric ISR Reconciliation?  Yes. The Company filed its FY 2017 Electric ISR Reconciliation on August 1, 2017.  However it had not filed its FY 2017 income tax return until later that year in the month of December. As a result, the Company used certain tax assumptions, and the Company has revised its vintage FY 2017 revenue requirement to reflect the following updates on
12 13 14 15 16 17		in the FY 2018 Electric ISR Reconciliation?  Yes. The Company filed its FY 2017 Electric ISR Reconciliation on August 1, 2017.  However it had not filed its FY 2017 income tax return until later that year in the month of December. As a result, the Company used certain tax assumptions, and the Company has revised its vintage FY 2017 revenue requirement to reflect the following updates on Attachment MAL-1: (1) actual capital repairs deduction rate of 20.50 percent as shown

shown on Page 5, Line 19; and (4) actual NOL of \$0 as shown on Page 4, Line 21.

### THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID

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1	Q.	Please summarize the updated FY 2018 ISR revenue requirement.
2	A.	As shown on Page 1, of Attachment MAL-1, the Company's FY 2018 Electric ISR
3		Program revenue requirement includes two elements: (1) O&M expense associated with
4		the Company's VM activities and system inspection, feeder hardening, and potted
5		porcelain cutouts, as encompassed by the Company's I&M Program, and (2) the
6		Company's capital investment in electric utility infrastructure. The description of these
7		elements and the related amounts are supported by the direct testimony and supporting
8		attachments of Mr. Prabhjot S. Anand. Line 4 reflects the actual FY 2018 revenue
9		requirement related to O&M expenses of \$10,036,295.
10		
11		As shown on Page 1, at Line 18 of Attachment MAL-1, the revenue requirement
12		associated with the Company's actual FY 2018 capital investment totals \$12,681,344.
13		As previously noted, the total FY 2018 revenue requirement includes the full year
14		revenue requirement on vintage FY 2012 through FY 2018 incremental ISR plant
15		additions above or below the level of plant additions reflected in base distribution rates.
16		In addition, the FY 2018 revenue requirement reflects a true-up for changes to previously
17		estimated tax depreciation expense to align with tax depreciation rates used on the
18		Company's FY 2017 tax return, which was filed in December 2017. The total actual FY
19		2018 ISR Plan revenue requirement for both O&M expenses and capital investment of
20		\$22,717,639 is shown on Line 19.

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

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### Q. Please describe how the attachment to your testimony is structured.

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A. Page 1 of Attachment MAL-1 summarizes the individual components of the updated FY 2018 ISR revenue requirement. Lines 1 through 4 address the O&M components. Lines 5 through 12 represent the full year FY 2018 ISR revenue requirements for the incremental FY 2012 through FY 2018 ISR investments, or those investments not included in the Company's base rates, and as supported with detailed calculations on Pages 2, 4, 6, 8, 10, 12 and 14. Line 13 represents the results of the FY 2018 property tax recovery adjustment, which is supported by a detailed calculation on pages 18 through 20 and is described below. Line 14 reflects the reconciliation of the approved FY 2017 ISR 10 revenue requirement for vintage FY 2017 plant additions with the actual vintage FY 2017 revenue requirement on those investments. As previously discussed, this reconciliation is 12 necessary because the actual level of tax deductibility on FY 2017 investments was not 13 known when the Company filed the FY 2017 and FY 2018 ISR Factor proposals. A detailed calculation of the updated FY 2017 revenue requirement is presented on page 4 15 of Attachment MAL-1. 16 Line 15 represents a correction to prior year tax NOL amounts. The correction to prior year NOLs is necessary to exclude the portion of tax NOLs that are included in Federal Energy Regulatory Commission (FERC) jurisdiction transmission rate base amounts that 20 were incorrectly included in previous vintage year NOL amounts included in ISR rate base. Finally, Line 16 reflects a true-up to address an adjustment that was recorded in the

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FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

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Company's FY 2016 annual report, in which it wrote off certain work orders that had
been charged to plant in FY 2013 through FY 2016 that should have been charged to
expense. Line 17 reflects the adjustment to Property Taxes associated with the work
order write off adjustment.

A.

### Q. Has the Company provided support for the actual level of FY 2018 ISR-eligible

### plant investments?

Yes. The description of the FY 2018 Electric ISR program and the amount of the incremental plant additions eligible for inclusion in the ISR mechanism are supported by the direct testimony and supporting attachment of Mr. Anand. The ultimate revenue requirement on the ISR eligible plant additions equals the return on the investment (i.e. average rate base at the weighted average cost of capital), plus depreciation expense and property taxes associated with the investment. Incremental ISR eligible plant additions for this purpose is intended to represent the net change in rate base for electric infrastructure investments, since the establishment of the Company's ISR mechanism effective April 1, 2011, and is defined as capital additions plus cost of removal, less annual depreciation expense included in the Company's rates, net of depreciation expense attributable to general plant. As discussed in the testimony of Mr. Anand, the actual ISR eligible plant additions for FY 2018 totals \$92.7 million associated with the Company's FY 2018 ISR Plan (electric infrastructure investment net of general plant).

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Q. Please explain the distinction between non-discretionary and discretionary capital
 spending as they relate to the revenue requirement calculation.

For purposes of calculating the capital-related revenue requirement, investments in electric infrastructure have been divided into two categories: (1) non-discretionary capital investments, which principally represent the Company's commitment to meet statutory and/or regulatory obligations; and (2) discretionary capital investments, which represent all other electric infrastructure-related capital investment falling outside of the specifically defined non-discretionary categories. The amount of discretionary investment the Company is allowed to include in the revenue requirement calculation is subject to certain limitations as shown on Page 17 of Attachment MAL-1. The amount of discretionary capital investment the Company uses in the revenue requirement must be no greater than the cumulative amount of discretionary project spend as approved by the PUC in this proceeding. This means that the discretionary investment is limited to the lesser of actual cumulative discretionary capital additions or spending, or cumulative discretionary spending approved by the PUC in this docket. For purposes of the FY 2018 revenue requirement, the lesser of these items was actual discretionary capital additions of \$56,750,256, as shown on Attachment MAL-1, Page 17.

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- Q. What is the updated revenue requirement associated with actual plant additions?
- A. The updated FY 2018 revenue requirement, associated with the Company's actual FY 2012 through FY 2018 ISR eligible plant investments, totals \$12,681,344. This amount

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1		includes the updated FY 2018 revenue requirement on FY 2012 through FY 2018 ISR
2		investments, reconciliation of the approved FY 2017 ISR revenue requirements on
3		vintage FY 2017 investments with the actual FY 2017 revenue requirement on those
4		investments, inclusion of the property tax recovery adjustment pursuant to the rate case
5		settlement agreement in Docket No. 4323, and true up adjustments for prior year
6		transmission-related tax NOLs and the write off of prior year charges to capital work
7		orders.
8		
9	III.	Conclusion
10	Q.	Does this conclude your testimony?
11	A.	Yes, it does.

### THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID RIPUC DOCKET NO. 4682 FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING WITNESS: MELISSA A. LITTLE

Attachment MAL-1 Electric Infrastructure, Safety, and Reliability Plan Revenue Requirement Calculation

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 1 of 26

### The Narragansett Electric Company d/b/a National Grid FY 2018 Electric ISR Revenue Requirement Reconciliation Annual Revenue Requirement Summary

Line No.		Fiscal Year <u>2018</u>
	Operation and Maintenance (O&M) Expenses:	
1	Current Year Vegetation Management (VM)	\$9,515,300
2	Current Year Inspection & Maintenance (I&M)	\$684,744
3	Electric Contact Voltage expenses included in RIPUC Docket No. 4323	(\$163,749)
4	Total O&M Expense Component of Revenue Requirement	\$10,036,295
	Capital Investment:	
5	Actual Revenue Requirement on Incremental FY 2012 Capital included in ISR Rase Base	\$261,894
6	Actual Revenue Requirement on Incremental FY 2013 Capital included in ISR Rate Base	(\$1,023,497)
7	Actual Revenue Requirement on Incremental FY 2014 Capital included in ISR Rate Base	\$702,125
8	Actual Revenue Requirement on FY 2015 Capital included in ISR Rate Base	\$3,702,462
9	Actual Revenue Requirement on FY 2016 Capital included in ISR Rate Base	\$3,707,299
10	Actual Revenue Requirement on FY 2017 Capital included in ISR Rate Base	\$3,595,726
11	Actual Revenue Requirement on FY 2018 Capital included in ISR Rate Base	\$3,539,880
12	Subtotal	\$14,485,888
13	FY 2018 Property Tax Recovery Adjustment	(\$350,419)
14	True-Up for Net Operating Loss, Bonus Depreciation, Capital Repairs Deduction, and Loss in ourseld the to estimate the EV 2017 Page 19	
	incurred due to retirement of FY 2017 Revenue Requirement Reconciliation RIPUC Docket No. 4592	\$38,904
15	True-Up for FY 2012 through FY 2016 Transmission - Related Net Operating Losses ("NOL")	(\$932,091)
16	True-Up for FY 2013 through FY 2016 Work Order Write Off Adjustment: Capital Investment	(\$560,347)
17	True-Up for FY 2013 through FY 2016 Work Order Write Off Adjustment: Property Tax	(\$589)
18	<b>Total Capital Investment Component of Revenue Requirement</b>	\$12,681,344
19	Total Fiscal Year Revenue Requirement	\$22,717,639
20	FY 2018 Plan Revenue Requirement as filed on March 21, 2017	\$26,837,179
21	Decrease in FY 2018 Revenue Requirement	(\$4,119,540)
1	Attachment PSA-1, Page 16, Table 11	
2	Attachment PSA-1, Page 17, Table 12	
4	Line 1 + Line 2 + Line 3	
5	Page 14 of 26, Line 31	
6	Page 12 of 26, Line 36	
7	Page 10 of 26, Line 36	
8	Page 8 of 26, Line 36	
9	Page 6 of 26, Line 36	
10	Page 4 of 26, Line 33	
11	Page 2 of 26, Line 33	
12	Sum of Lines 5 through 11	
13	Page 19 of 26, Line 66 * 1000	
14	Page 4 of 26, Line 35	
15	Page 22 of 26, Line 11	
16	Page 23 of 26, Line 9	
17	Page 18 of 26, Sum of Line 34	
18	Sum of Lines 12 through 17	
19	Sum of Lines 4 and 18	
20	FY 2018 Plan Revenue Requirement as filed on March 21, 2017	
21	Line 19 - Line 20	

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 2 of 26

# The Narragansett Electric Company dDsa National Grid FY 2018 Electric ISR Revenue Requirement Reconciliation FY 2018 Revenue Requirement on FY 2018 Actual Incremental Capital Investment

			(3)
ü	Capital Investment Allowance		(p)
	Non-Discretionary Capital	Attachment PSA-1, Page 3, Table 1	\$35,909,398
	Discretionary Capital Lesser of Actual Cumulative Non-Discretionary Capital Additions or Spending, or Approved Spending	Page 17 of 26, Line 12	\$56,750,256
	Total Allowed Capital Included in Rate Base	Line 1 + Line 2	\$92,659,654
리	Depreciable Net Capital Included in Rate Base Total Allowed Capital Included in Rate Base in Current Year Retirements Net Depreciable Capital Included in Rate Base	Line 3 Year I = Line 4 - Line 5; then = Prior Year Line 6	\$92,659,654 1/ \$15,206,748 \$77,452,906
ð	Change in Net Capital Included in Rate Base Capital Included in Rate Base	Line 3	\$92,659,654
	Depreciation Expense Incremental Capital Amount	Per Settlement Agreement Docket No. 4323, excluding General Plant Year I = Line 7 - Line 8, then = Prior Year Line 9	\$43,031,774 \$49,627,880
	Cost of Removal	Attachment PSA-1, Page 4, Table 2	869,979,698
	Total Net Plant in Service	Line 9 + Line 10	\$59,607,578
වී	Deferred Tax Calculation: Composite Book Depreciation Rate	As approved per R.LP.U.C. Docket No. 4323	3.40%
	Vintage V ear 1 ax Depreciation: 2018 Spend Cumulative Tax Depreciation	Year I = Page 3 of 26, Line 21; then = Page 3 of 26, Column (d), Line 5 Year I = Line 14; then = Prior Year Line 15 + Current Year Line 14	\$52,979,343 \$52,979,343
	Book Depreciation Cumulative Book Depreciation	Year I = Line 6 * Line 12 * 50% ; then = Line 6 * Line 12 Year I = Line 16; then = Prior Year Line 17 + Current Year Line 16	\$1,316,699
	Cumulative Book / Tax Timer	Line 15 - Line 17	\$51,6
	Effective Tax Rate Deferred Tax Reserve	Line 18 * Line 19	2/ 21.00%
	Less: FY 2018 Federal NOL	Page 21 of 26, Line 12(n)	0\$
	Less: Proration Adjustment Excess Deferred Tax	Page 24 of 26, Line 40(b) Page 25 of 26, Line 7(f)	(\$5,486,704)
	Net Deferred Tax Reserve	Sum of Lines 20 through 23	\$10,787,029
Ra	Rate Base Calculation:	11:11	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Cumulative incremental Capital included in Kate base	Line 11	\$15,100,578
	Accumulated Depreciation Deferred Tax Reserve	-Line 17	(\$10,787,029)
	Year End Rate Base	Sum of Lines 25 through 27	\$47,503,850
Re	Revenue Requirement Calculation:	Year 1 = Current Year Line $28 \div 2$ ; then Average of (Prior + Current Year	
	Average Rate Base	Line 28)	\$23,751,925
	Pre-Tax ROR	Page 26 of 26, Line 54	9.36%
	return and 1 axes Book Depreciation	Line 16	\$1,316,699
	Annual Revenue Requirement	Line 31 + Line 32	\$3.539.880

Actual Retiremer

<sup>2/</sup> The federal Income Tax rate changed from 35% to 21% on Janurary 1, 2018 per the Tax Cuts and Jobs Act of 2017

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 3 of 26

FY 2018 Electric ISR Revenue Requirement Reconciliation Calculation of Tax Depreciation and Repairs Deduction on FY2018 Incremental Capital Investments The Narragansett Electric Company d/b/a National Grid

Line			Fiscal Year <u>2018</u>			
No.			(a)	(p)	(c)	(p)
	Capital Repairs Deduction					
-	Plant Additions	Page 2 of 26, Line 3	\$92,659,654	20 Year MACRS Depreciation	Depreciation	
2	Capital Repairs Deduction Rate	Per Tax Department	1/ 23.38%			
33	Capital Repairs Deduction	Line 1 * Line 2	\$21,663,827	MACRS basis:	Line 16	\$53,424,360
	Bonus Denreciation			Fiscal Year		
4	Plant Additions	Line 1	\$92,659,654	2018	3.750%	\$2,003,414
5	Less Capital Repairs Deduction	- Line 3	(\$21,663,827)	2019	7.219%	\$3,856,705
9	Plant Additions Net of Capital Repairs Deduction	Line 4 + Line 5	\$70,995,827	2020	9.677%	\$3,567,145
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	%00.66	2021	6.177%	\$3,300,023
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$70,285,869	2022	5.713%	\$3,052,134
6	Bonus Depreciation Rate (April 2017 - September 2017)	1*50%*50%	25.00%	2023	5.285%	\$2,823,477
10	Bonus Depreciation Rate (Oct 2017 - March 2018)	1*50%*0%	0.00%	2024	4.888%	\$2,611,383
11	Total Bonus Depreciation Rate	Line 9 + Line 10	25.00%	2025	4.522%	\$2,415,850
12	Bonus Depreciation	Line 8 * Line 11	\$17,571,467	2026	4.462%	\$2,383,795
				2027	4.461%	\$2,383,261
	Remaining Tax Depreciation			2028	4.462%	\$2,383,795
13	Plant Additions	Line 1	\$92,659,654	2029	4.461%	\$2,383,261
14	Less Capital Repairs Deduction	- Line 3	(\$21,663,827)	2030	4.462%	\$2,383,795
15	Less Bonus Depreciation	- Line 12	(\$17,571,467)	2031	4.461%	\$2,383,261
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Sum of Line 13 through Line 15	\$53,424,360	2032	4.462%	\$2,383,795
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	2033	4.461%	\$2,383,261
18	Remaining Tax Depreciation	Line 16 * Line 17	\$2,003,414	2034	4.462%	\$2,383,795
				2035	4.461%	\$2,383,261
19	FY18 Loss incurred due to retirements	Per Tax Department	2/ \$1,760,937	2036	4.462%	\$2,383,795
20	Cost of Removal	Page 2 of 26, Line 10	869'626'8	2037	4.461%	\$2,383,261
				2038	2.231%	\$1,191,897
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20	\$52,979,343		100.000%	\$53,424,360

Lapital 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.
 PY 2018 estimated tax loss on retirements is based on FY 2016 estimate

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 4 of 26

The Narragansett Eketric Company
dha National Grid
FY 2018 Eketric ISR Revenue Requirement Reconciliation
Y 2018 Revenue Requirement on FY 2017 Actual Incremental Capital Investment

Line No.

F) FY 2018 Reve	FY 2018 Electric ISR Overnor Requirement Reconciliation FY 2018 Revenue Requirement on FY 2017 Actual Incremental Capital Investment		
		Fiscal Year $\frac{2017}{(a)}$	Fiscal Year 2018
Capital Additions Allowance Non-Discretionary Capital Non-Discretionary Additions	Per RIPUC Docket No. 4592	\$28,593,675	0\$
Discretionary Capital Lesser of Actual Cumulative Discretionary Capital Additions or Spending, or Approved Spending	Per RIPUC Docket No. 4592	\$46,895,663	80
Total Allowed Capital Included in Rate Base	Line 1 + Line 2	\$75,489,338	0\$
Depreciable Net Capital Included in Rate Base Total Allowed Capital Included in Rate Base in Current Year Retirements Net Depreciable Capital Included in Rate Base	Line 3	875,489,338 1/ \$22,244,993 \$53,244,345	\$0 \$0 \$53,244,345
Change in Net Capital Included in Rate Base Capital Included in Rate Base Depreciation Expense Incremental Depreciable Amount	Line 3 Per Settlement Agreement Docket No. 4323, excluding General Plant Year 1 = Line 7 - Line 8; then = Prior Year Line 9	\$75,489,338 \$43,031,774 \$32,457,564	\$0 \$0 \$32,457,564
Total Cost of Removal	Per RIPUC Docket No. 4592	\$7,806,949	\$7,806,949
Total Net Plant in Service	Line 9 + Line 10	\$40,264,513	\$40,264,513
Deferred Tax Calculation: Composite Book Depreciation Rate	As approved per R.J.P.U.C. Docket No. 4323	3.40%	3.40%
vinage 1 ear aax Depreciation. 2017 Spend Cumulative Tax Depreciation	Year I = Page 5 of 26, Line 21; then = Page 5 of 26, Column (d), Line 5 Year I = Line 14; then = Prior Year Line 15 + Current Year Line 14	\$56,129,313 \$56,129,313	\$2,186,135 \$58,315,448
Book Depreciation Cumulative Book Depreciation	Year I = Line 6 * Line 12 * 50% ; then = Line 6 * Line 12 Year I = Line 16; then = Prior Year Line 17 + Current Year Line 16	\$905,154 \$905,154	\$1,810,308 \$2,715,462
Cumulative Book / Tax Timer Effective Tax Rate	Line 15 - Line 17	\$55,224,159	\$55,599,986
Lestree i ax Keserve Less: FY 2017 Federal NOL Less: Prontion Adjustment Excess Deferred Tax Net Deferred Tax Reserve	Line 19  Page 21 of 26, Line 12(m)  Column (a) = n/s; Column (b) = Page 24 of 26, Line 40(c)  Page 25 of 26, Line 6(f)  Sum of Lines 20 through 23	\$19,328,456 \$0 \$0 \$0 \$10,328,456	\$11,675,997 \$0 \$16,852) \$7,770,844 \$19,429,989
Rate Base Calculation: Cumulative Incremental Capital Included in Rate Base Accumulated Depreciation Deferred Tax Reserve Year End Rate Base	Line 11 -Line 17 -Line 24 Sum of Lines 25 through 27	\$40,264,513 (\$905,154) (\$19,328,456) \$20,030,904	\$40,264,513 (\$2,715,462) (\$19,429,989) \$18,119,062
Revenue Requirement Calculation: Avenge Rate Base Pre-Tax ROR Return and Taxes Book Depreciation	Year I = Current Year Line $28 \div 2$ ; then Average of (Prior + Current Year Line $28$ ) Page 26 of 26, Line 40, Line 54 Line 29 * Line 30 Line 16	\$10,015,452 9,68% \$969,496 \$905,154	\$19,074,983 9.36% \$1,785,418 \$1,810,308
Annual Revenue Requirement	Line 31 + Line 32	\$1,874,650	\$3,595,726
As Approved in RIPUC Docket No. 4592		\$1,835,746	
True up		\$38,904	

25 26 27 28

2/ The federal Income Tax rate changed from 35% to 21% on Janurary 1, 2018 per the Tax Cuts and Jobs Act of 2017

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 5 of 26

FY 2018 Electric ISR Revenue Requirement Reconciliation Calculation of Tax Depreciation and Repairs Deduction on FY2017 Incremental Capital Investments The Narragansett Electric Company d/b/a National Grid

Fiscal Year  $\frac{2017}{(a)}$ 

Line				(a)	(q)	(c)	(p)
No.	Capital Repairs Deduction						
1	Plant Additions	Page 4 of 26, Line 3	•	\$75,489,338	20 Year MACRS Depreciation	Depreciation	
2	Capital Repairs Deduction Rate	Per Tax Department	1/	20.50%			
33	Capital Repairs Deduction	Line 1 * Line 2	•	\$15,475,314	MACRS basis:	Line 16	\$30,283,076
	Bonus Depreciation				Fiscal Year		
4	Plant Additions	Line 1	•	\$75,489,338	2017	3.750%	\$1,135,615
S	Less Capital Repairs Deduction	- Line 3	90	(\$15,475,314)	2018	7.219%	\$2,186,135
9	Plant Additions Net of Capital Repairs Deduction	Line 4 + Line 5		\$60,014,024	2019	6.677%	\$2,022,001
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	2/	%80.66	2020	6.177%	\$1,870,586
∞	Plant Eligible for Bonus Depreciation	Line 6 * Line 7		\$59,461,895	2021	5.713%	\$1,730,072
6	Bonus Depreciation Rate (April 2016 - December 2016)	1*75%*50%		37.50%	2022	5.285%	\$1,600,461
10	Bonus Depreciation Rate (January 2017 - March 2017)	1*25%*50%		12.50%	2023	4.888%	\$1,480,237
11	Total Bonus Depreciation Rate	Line 9 + Line 10		20.00%	2024	4.522%	\$1,369,401
12	Bonus Depreciation	Line 8 * Line 11	•	\$29,730,948	2025	4.462%	\$1,351,231
					2026	4.461%	\$1,350,928
	Remaining Tax Depreciation				2027	4.462%	\$1,351,231
13	Plant Additions	Line 1	•	\$75,489,338	2028	4.461%	\$1,350,928
14	Less Capital Repairs Deductions	- Line 3	<u>e</u>	(\$15,475,314)	2029	4.462%	\$1,351,231
15	Less Bonus Depreciation	- Line 12	3)	(\$29,730,948)	2030	4.461%	\$1,350,928
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Sum of Line 13 through Line 15		\$30,283,076	2031	4.462%	\$1,351,231
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946		3.750%	2032	4.461%	\$1,350,928
18	Remaining Tax Depreciation	Line 16 * Line 17		\$1,135,615	2033	4.462%	\$1,351,231
					2034	4.461%	\$1,350,928
19	FY17 Loss incurred due to retirements	Per Tax Department	3/	\$1,980,487	2035	4.462%	\$1,351,231
20	Cost of Removal	Page 4 of 26, Line 10		\$7,806,949	2036	4.461%	\$1,350,928
					2037	2.231%	\$675,615
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20		\$56,129,313		100.000%	\$30,283,076

 <sup>1/</sup> Capital Repairs percentage is based on the actual results of the FY 2017 tax return.
 2/ Percent of Plant Eligible for Bonus Depreciation is the actual result of FY2017 tax return
 3/ Actual Loss for FY17

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 6 of 26

The Narragansett Electric Company
40.hh valional Grid
FY 2018 Electric ISR Revene Requirement Reconciliation
FY 2018 Revenue Requirement on FY 2016 Actual Incremental Capital Investment

Line No.			Fiscal Year 2016	Fiscal Year $\frac{2017}{6}$	Fiscal Year $\frac{2018}{(c)}$
	Capital Investment Allowance		(a)	(g)	(2)
1 2	Non-Discretionary Capital Work Order Write Off Adjustment	Per RIPUC Docket No. 4539 Per Company's books	\$35,964,438 \$672,272	\$0	80
ε 4	Discretionary Capitul Lesser of Actual Cumitive Non-Discretionary Capital Additions or Spending or Approved Spending Spending Work Orter Write Off Adjustment	Per RIPUC Docker No. 4539 Per Compuny's books	\$35,488,464 (\$121,728)	\$0 80	\$000
5	Total Alfowed Capital Included in Rate Base	Line 1 + Line 2 + Line 3 + Line 4	\$72,003,445	\$0	\$0
9 7 8	Depreciable Net Capital Included in Rate Base Total Allowed Capital Included in Rate Base in Current Year Retirements Net Depreciable Capital Included in Rate Base	Line 5 Vew 1 = Line 6 - Line 7; then = Prior Year Line 8	\$72,003,445 1/ \$28,489,814 \$43,513,631	\$0 \$0 \$43,513,631	\$0 \$0 \$43,513,631
6	Change in Net Capital Included in Rate Base Capital Included in Rate Base	Line S	\$72,003,445	80	80
110	Depreciation Expense Incremental Capital Amount	Per Settlement Agreement Docket No. 4323, excluding General Plant Year I = Line 9 - Line 10; then = Prior Year Line 11	\$43,031,774 \$28,971,671	\$28,971,671	\$28,971,671
12	Cost of Removal Work Order Write Off Adjustment	Per RIPUC Docket No. 4539 Per Company's books	\$8,192,983 (\$19,884)	\$8,192,983 (\$19,884)	\$8,192,983 (\$19,884)
14	Total Net Plant in Service	Line 11 + Line 12 + Line 13	\$37,144,770	\$37,144,770	\$37,144,770
15 16 17 18	Deferred Tax Calculation: Composite Book Depreciation Rate Vinings C ear Tax Depreciation: 2016 Spend Cumulative Tax Depreciation	As approved per R.I.P.U.C. Docket No. 4323  Year 1 = Page 7 of 26, Live 21; then = Page 7 of 26, Column (d), Live 5  Year 1 = Live 17; then = Prior Year Line 18 + Current Year Line 17	3.40% \$60,569,127 \$60,569,127	3.40% \$1,868,699 \$62,437,826	3.40% \$1,728,398 \$64,166,224
19	Book Depreciation Cumulative Book Depreciation	Year I = Line 8 * Line I5 * 50%; then = Line 8 * Line I5 Year I = Line 9 * Line I9 Year I = Line I9; then = Prior Year Line 20 + Current Year Line I9	\$739,732 \$739,732	\$1,479,463 \$2,219,195	\$1,479,463 \$3,698,659
21 23 23 24 25 25 27	Cumulative Book / Tax Timer Effective Tax Rate Deferred Tax Reserve Lass: FY 2016 Federal NOL Lass: For 2016 Federal NOL Esses Pederad Tax Excess Deferred Tax Reserve Net Deferred Tax Reserve	Line 18 - Line 20  Line 21 * Line 22  Page 21 of 26, Line 120)  Column (a) through (b) = nic . Column (c) = Page 24 of 26, Line 40(d)  Sum of Lines 23 through 26	2/ \$59,829,395 \$50,0940,288 (\$10,693,796) \$0 \$0 \$10,246,492	\$60,218,631 35,00% \$21,076,521 (\$10,693,796) \$0 \$10,382,725	\$60,467,565 21,00% \$12,698,189 (\$10,693,796) (\$75,493) \$8,456,746 \$10,385,646
28 29 30 31	Rate Base Calculation: Cumulative Incremental Capital Included in Rate Base Accumulated Deprediction Deferred Tax Reserve Year End Rate Base	Line 14 -Line 20 -Line 27 -Line 37 Sum of Lines 28 through 30	\$37,144,770 (\$739,732) (\$10,246,492) \$26,158,546	\$37,144,770 (\$2,219,195) (\$10,382,725) \$24,542,850	\$37,144,770 (\$3,698,659) (\$10,385,646) \$23,060,465
32 34 35 35	Revenue Requirement Calculation. Average Rute Base Pre-Trax ROR Return and Traces Book Depreciation	Year I = Current Year Line 31 + 2, then Average of (Prior + Current Year Line 31) Page 26 of 28, Line 40, Line 54 Line 33 Line 33 Line 19	\$13,079,273 9,68% \$1,266,074 \$739,732	\$25,350,698 9.68% \$2,453,948 \$1,479,463	\$23,801,658 9.36% \$2,227,835 \$1,479,463
36	Annual Revenue Requirement	Line 34 + Line 35	\$2,005,805	\$3,933,411	\$3,707,299
37 38 39 40		I.No. 4682) s. 4682)	\$2,048,986 (\$169,161) \$193,024 \$29,263	\$3,933,411	
	1/ Actual Retirements				

2 The federal Income Tax rate changed from 35% to 21% on Janurary 1, 2018 per the Tax Cuts and Jobs Act of 2017

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 7 of 26

# The Narragansett Electric Company d/b/a National Grid FY 2018 Electric ISR Revenue Requirement Reconciliation Calculation of Tax Depreciation and Repairs Deduction on FY2016 Incremental Capital Investments

Ę	(p)			\$25,885,847		\$970,719	\$1,868,699	\$1,728,398	\$1,598,969	\$1,478,858	\$1,368,067	\$1,265,300	\$1,170,558	\$1,155,026	\$1,154,768	\$1,155,026	\$1,154,768	\$1,155,026	\$1,154,768	\$1,155,026	\$1,154,768	\$1,155,026	\$1,154,768	\$1,155,026	\$1,154,768	\$577,513	\$25,885,847
3	(c)	Depreciation		Line 16		3.750%	7.219%	9.677%	6.177%	5.713%	5.285%	4.888%	4.522%	4.462%	4.461%	4.462%	4.461%	4.462%	4.461%	4.462%	4.461%	4.462%	4.461%	4.462%	4.461%	2.231%	100.000%
ć	(g)	20 Year MACRS Depreciation		MACRS basis:	Fiscal Year	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	
Fiscal Year $\frac{2016}{201}$	(a)	\$72,003,445	1/ 29.67%	\$21,361,075		\$72,003,445	(\$21,361,075)	\$50,642,370	97.77%	\$49,513,045	37.50%	12.50%	20.00%	\$24,756,523			\$72,003,445	(\$21,361,075)	(\$24,756,523)	\$25,885,847	3.750%	\$970,719		\$5,307,711	\$8,173,099		\$60,569,127
		Page 6 of 26, Line 5	Per Tax Department	Line 1 * Line 2		Line 1	- Line 3	Line 4 + Line 5	Per Tax Department	Line 6 * Line 7	1 * 75% * 50%	1*25%*50%	Line 9 + Line 10	Line 8 * Line 11			Line 1	- Line 3	- Line 12	Sum of Line 13 through Line 15	Per IRS Publication 946	Line 16 * Line 17		Per Tax Department	Page 6 of 26, Line 12 + Line 13		Sum of Lines 3, 12, 18, 19, and 20
	Capital Repairs Deduction	Plant Additions	Capital Repairs Deduction Rate	Capital Repairs Deduction	Ronns Denreciation	Plant Additions	Less Capital Repairs Deduction	Plant Additions Net of Capital Repairs Deduction	Percent of Plant Eligible for Bonus Depreciation	Plant Eligible for Bonus Depreciation	Bonus Depreciation Rate (April 2015 - December 2015)	Bonus Depreciation Rate (January 2016 - March 2016)	Total Bonus Depreciation Rate	Bonus Depreciation		Remaining Tax Depreciation	Plant Additions	Less Capital Repairs Deduction	Less Bonus Depreciation	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	20 YR MACRS Tax Depreciation Rates	Remaining Tax Depreciation		FY16 Loss incurred due to retirements	Cost of Removal		Total Tax Depreciation and Repairs Deduction
Line	No.	-	2	3		4	5	9	7	8	6	10	11	12			13	14	15	16	17	18		19	20		21

1/ Capital Repairs percentage is based on the actual results of the FY 2016 tax return.

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 8 of 26

Line			Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year
No.			2015 (a)	2016 (b)	2017 (c)	2018 (d)
	Capital Investment Allowance					
- 2	Non-Discretionary Capital Work Order Write Off Adjustment	Per RIPUC Docket No. 4473 Per Company's books	\$22,246,664 (\$268,138)	\$0	80	80
ω 4	Discretionary Capital Lesser of Acual Camulative Non-Discretionary Capital Additions or Spending or Approved Spending Work Order Write Off Adjustment	Per RIPUC Docket No. 4473 Per Company's books	\$54,410,377 (\$48,499)	80	80	0\$
5	Total Allowed Capital Included in Rate Base	Line 1 + Line 2 + Line 3 + Line 4	\$76,340,403	\$0	80	Q\$
9 1	Depreciable Net Capital Included in Rate Base Total Allowed Capital Included in Rate Base in Current Year Reinemonts	Line 5	\$76,340,403	0\$	\$ 9	<i>S</i> , <i>S</i>
- ∞	Net Depreciable Capital Included in Rate Base	Year 1 = Line 6 - Line 7; then = Prior Year Line 8		\$60,674,308	60,674,308	60,674,308
6	Change in Net Capital Included in Rate Base Capital Included in Rate Base	Line 5	\$76,340,403	\$	0\$	0\$
01 11	Depreciation Expense Incremental Capital Amount	Per Sentement Agreement Docket No. 4323, excluding General Plant Year $1 = \text{Line } 9$ . Line $10$ ; then $= \text{Prior Year Line } 1$	\$43,031,774	\$33,308,629	\$33,308,629	\$33,308,629
12	Cost of Removal Work Order Write Off Adjustment	Docket No. 4473 FY 15 Reconciliation, Alt. JHP-1, Page 4, Table 2 Per Company's books	\$6,988,398 \$ 22,398.01	\$6,988,398	\$6,988,398 \$22,398	\$6,988,398 \$22,398
4	Total Net Plant in Service	Line 11 + Line 12 + Line 13	\$40,319,425	\$40,319,425	\$40,319,425	\$40,319,425
15	Deferred Tax Cakulation: Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4323	3.40%	3.40%	3.40%	3.40%
16 17 18	Vinige Year I ax Depreciation: 2015 Spend Cumulative Tax Depreciation	Year I = Page 9 of 26. Line 22; then = Page 9 of 26. Column (d), Line 5 Year I = Line 17; then = Prior Year Line 18 + Current Year Line 17	\$71,871,022 \$71,871,022	\$2,120,892 \$73,991,914	\$1,961,656 75,953,570	\$1,814,760 77,768,330
19	Book Depreciation Cumulative Book Depreciation	Year 1 = Line 8 * Line 15 * 50%; then = Line 8 * Line 15 Year 1 = Line 19; then = Prior Year Line 20 + Current Year Line 19	\$1,031,463 \$1,031,463	\$2,062,926 \$3,094,390	\$2,062,926 \$5,157,316	\$2,062,926 \$7,220,243
21	Cumulative Book / Tax Timer Fffs.criso Tay B ans	Line 18 - Line 20	\$70,839,559	\$70,897,524	\$ 70,796,254 \$	70,548,087
24 23	Deferred Tax Reserve Loss FY 2015 February NO.	Page 21 of 5t, Line 12k)  Page 21 of 5t, Line 12k)	\$24	\$24,814,134 (\$8,148,936)	\$24,778,689 (\$8,148,936)	\$14,815,098 (\$8,148,936)
25 27	Less, rotation supplement Excess Deferred Tax Net Deferred Tax Reserve	Column (a) Introgen (c) = 1.0a; Conntin (t) = 1.0ge 2-5 of 26, Line 4(f) Column (a) Introgen (c) = n'ar. Column (d) = 1'age 25 of 26, Line 4(f) Sum of Lines 23 through 26	\$0 \$0 \$16,644,909	\$0 \$0 \$16,665,197	\$0 \$0 \$16,629,752	\$9,885,418 \$16,598,737
28	Rate Base Calculation: Cumulative Incremental Capital Included in Rate Base	bl aufi	\$40,319,425	\$40,319,425	\$40,319,425	\$40,319,425
29	Accumulated Depreciation	. Line 20	(\$1,031,463)	(\$3,094,390)	(\$5,157,316)	(\$7,220,243)
31	Deletre Lax Reserve Year End Rate Base	- Life 2.1 Sum of Lines 28 through 30	\$22,643,053	\$20,559,839	(\$10,029,732) \$18,532,357	(\$16,596,137) \$16,500,445
32	Revenue Requirement Calculation: Avernee Rate Base	Year I = Current Year Line 31 ÷ 2: then Average of (Phior + Current Year Line 31)	\$11.321.526.47	\$21.601.446	\$19.546.098	\$17.516.401
33	Pre-Tax ROR	Column (a) through (c) = Page 26 of 26, Line 40, Column (d) = Page 26 of 26, Line 54	%89'6	9.68%	9.68%	9.36%
35	Return and Taxes Book Depreciation	Line 32 * Line 33 Line 19	\$1,095,924 \$1,031,463	\$2,091,020 \$2,062,926	\$1,892,062 \$2,062,926	\$1,639,535 \$2,062,926
36	Annual Revenue Requirement	Line 34 + Line 35	\$2,127,387	\$4,153,946	\$3,954,989	\$3,702,462
33	As Approved in RIPUC Docket No. 4539 Transmission-telated NOL adjustment Work Order Wire Off Adjustment		\$2,335,465 (\$191,621) (\$16,457)	\$4,569,615 (\$383,242) (\$32,427)		

The federal Income Tax rate changed from 35% to 21% on Janurary 1, 2018 per the Tax Cuts and Jobs Act of 2017

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 9 of 26

The Narragansett Electric Company

d/b/a National Grid

FY 2018 Electric ISR Revenue Requirement Reconciliation

Calculation of Tax Depreciation and Repairs Deduction on FY2015 Incremental Capital Investments

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 RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 10 of 26

The Narragansett Electric Company
The Narragansett Electric Company
The Narragansett Stefat
FY 2018 Electric ISR Revenue Requirement Reconclination
FY 2018 Revenue Requirement on FY 2014 Actual Incremental Capital Investment

Line No.	Capita Investment Allowance		Fiscal Year 2014 (a)	Fiscal Year 2015 (b)	Fiscal Year 2016 (c)	Fiscal Year 2017 (d)	Fiscal Year 2018 (e)
7 7	Non-Discretionary Capital Work Order Write Off Adjustment	Per RIPUC Docket No. 4382 Per Canpany's books	\$6,923,860 (\$472,942)	8	8	80	80
ε 4	Discretionary Capital Lesser of Actual Cumulative Non-Discretionary Capital Additions or Spending, or Approved Spending Work Order Write Off Adjustment	Per RIPUC Docket No. 4382 Per Company's books	\$6,400,406 (\$8,965)	80	80	80	80
v	Total Allowed Capital Included in Rate Base	Sum of Line 1 through Line 4	\$12,842,359	80	80	80	80
9 ~ 8	Depreciable Net Capital Included in Rate Base Total Allowed Capital Included in Rate Base in Cur Retirements Net Depreciable Capital Included in Rate Base	Line 5  Page 16 of 26 Line 9(c)  Year 1 = Line 7 - Line 8; then = Prior Year Line 9	\$12,842,359 1/ (\$4,165,367) \$17,007,726	\$0 \$0 17,007,726	\$0 \$0 17,007,726	\$0 \$0 17,007,726	\$0 \$0 17,007,726
6	Change in Net Capital Included in Rate Base Capital Included in Rate Base	Line 5	\$12,842,359	SO	SO	80	98
01 11	Depreciation Expense Incremental Capital Amount	Per Settlement Agreensent Docket No. 4323, excluding General Plant Year 1 = Line 9 - Line 10; then = Prior Year Line 11	2/ \$7,173,397 \$5,668,962	\$0 \$5,668,962	\$0 \$5,668,962	\$0 \$5,668,962	\$0 \$5,668,962
12	Total Cost of Removal Work Order Write Off Adjustment	Page 16 of 26, Line 6(c) Page 16 of 26, Line 6(c)	(\$87,841)	(\$887,841)	(\$887,841)	(\$887,841)	(\$887,841)
4	Total Net Plant in Service	Line 11 + Line 12 + Line 13	\$4,744,059	\$4,744,059	\$4,744,059	\$4,744,059	\$4,744,059
15	Deferred Tax Calculation: Composite Book Depreciation Rate Vinage Year Tax Depreciation: 2014 Second	As approved per R.I.P.U.C. Ducket No. 4323  Now 1 - Days 11 of 26 Time 20 them. Proce 1 of 25 Commund VI Time 5	3.40%	3.40%	3.40%	3.40%	3.40%
81	2014 Spend Cumulative Tax Depreciation	rear 1 = Fage 1101 zo, Line zo, uen = Fage 1104 zo, Comini (u), Line z Year 1 = Line 17; then = Prior Year Line 18 + Current Year Line 17	\$7,826,326	\$8,133,171	\$262,000 \$8,416,979	\$8,679,534	\$242,832 \$8,922,366
19 20	Book Depreciation Cumulative Book Depreciation	Year 1 = Line 8 * Line 15 * 50% ; then = Line 8 * Line 15 Year 1 = Line 19; then = Prior Year Line 20 + Current Year Line 19	\$289,131 \$289,131	\$578,263 \$867,394	\$578,263 \$1,445,657	\$578,263 \$2,023,919	\$578,263 \$2,602,182
22 23 22 25 25 25 25 25 25 25 25 25 25 25 25	Cumulative Book / Tax Timer Effective Thr Raute Deferred Tax Reserve Loss: Pr 2014 Federal NOL Less: Pration dissument Excess Deferred Tax Net Deferred Tax Reserve	Line 18 - Line 20 Line 21 e Line 22 Page 21 of 26, Line 12() Column (a) through (b) may, column (c) = 100 (26, Line 140()) Page 25 of 35, Line 3() Sum of Line 23 through 26	3/ 35.00% \$2,638,018 \$1,200,808) \$0 \$0 \$1,437,210	\$7,265,777 35,00% \$2,543,022 (\$1,200,808) \$0 \$0 \$1,342,214	\$6,971,322 35,00% \$2,439,963 (\$1,200,808) \$0 \$0 \$1,239,155	\$6,655,614 35,00% \$2,329,465 (\$1,200,808) \$0 \$0 \$1,128,657	\$6,320,184 21.00% \$1,327,239 (\$1,200,808) \$63,739 \$896,566 \$1,086,736
28 30 31	Rate Base Calculation: Cumulative Incremental Capital Included in Rate Bi Accumulated Depreciation Deforted Tax Reserve Year End Rate Base	Line 14 - Line 20 - Line 27 - Line 27 - Sun of Line 38	\$4,744,059 (\$289,131) (\$1,437,210) \$3,017,717	\$4,744,059 (\$867,394) (\$1,342,214) \$2,534,451	\$4,744,059 (\$1,445,657) (\$1,239,155) \$2,059,247	\$4,744,059 (\$2,023,919) (\$1,128,657) \$1,591,482	\$4,744,059 (\$2,602,182) (\$1,086,736) \$1,055,141
	Revenue Requirement Calculation:						
32 33 35 35	Average Rate Base Pre-Tax ROR Return and Taxes Book Depreciation	Year 1 = note 44 * Current Year Line 31; then = Average of (Phior + Current Year Line 31) 4 Page 356 of 36. Line 40. Line 54 Line 33 * Line 33 Line 19	4/ \$670,654 9.68% \$64,919 \$289,131	\$2,776,084 9.68% \$268,725 \$578,263	\$2,296,849 9.68% \$222,335 \$578,263	\$1,825,365 9.68% \$176,695 \$578,263	\$1,323,312 9.36% \$123,862 \$578,263
36	Annual Revenue Requirement	Line 34 + Line 35	\$354,051	\$846,988	\$800,598	\$754,958	\$702,125
38	As Approved in RIPUC Docket No. 4539 Transmission-related NOL adjustment Work Order Write Off Adjustment		\$373,851 \$0 (\$19,800)	\$900,001 \$0 (\$53,014)	\$852,205 \$0 (\$51,607)		

<sup>1/</sup> Actual Retirements

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

<sup>3/</sup> The federal Income Tax rate changed from 35% to 21% on Janurary 1, 2018 per the Tax Cuts and Jobs Act of 2017

<sup>4/ 23.23%</sup> 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 RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 11 of 26

FY 2018 Electric ISR Revenue Requirement Reconciliation Calculation of Tax Depreciation and Repairs Deduction on FY2014 Incremental Capital Investments The Narragansett Electric Company d/b/a National Grid

Line			Fiscal Year 2014			
No.			(a)	(b)	(c)	(p)
	Capital Repairs Deduction					
_	Plant Additions	Page 10 of 26, Line 5	\$12,842,359	20 Year MACRS Depreciation	sciation	
2	Capital Repairs Deduction Rate	Per Tax Department	1/ 34.46%			
33	Capital Repairs Deduction	Line 1 * Line 2	\$4,425,477	MACRS basis:	Line 16	\$4,250,525
	Bonne Dameointion			Fiscal Veer		
-	Direct A database	1::1	010 040 050	1 13041 1 041	70031	300 0213
4	Fight Additions	Line I	912,842,339	4107	3.750%	666,6614
2	Less Capital Repairs Deduction	- Line 3	(\$4,425,477)	2015	7.219%	\$306,845
9	Plant Additions Net of Capital Repairs Deduction	Line 4 + Line 5	\$8,416,882	2016	%212%	\$283,808
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	%00.66	2017	6.177%	\$262,555
∞	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$8,332,713	2018	5.713%	\$242,832
6	Bonus Depreciation Rate (April 2013 - December 2013)	1*75%*50%	37.50%	2019	5.285%	\$224,640
10	Bonus Depreciation Rate (January 2014 - March 2014)	1*25%*50%	12.50%	2020	4.888%	\$207,766
11	Total Bonus Depreciation Rate	Line 9 + Line 10	20.00%	2021	4.522%	\$192,209
12	Bonus Depreciation	Line 8 * Line 11	\$4,166,357	2022	4.462%	\$189,658
				2023	4.461%	\$189,616
	Remaining Tax Depreciation			2024	4.462%	\$189,658
13	Plant Additions	Line 1	\$12,842,359	2025	4.461%	\$189,616
14	Less Capital Repairs Deduction	- Line 3	(\$4,425,477)	2026	4.462%	\$189,658
15	Less Bonus Depreciation	- Line 12	(\$4,166,357)	2027	4.461%	\$189,616
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Sum of Line 13 through Line 15	\$4,250,525	2028	4.462%	\$189,658
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	2029	4.461%	\$189,616
18	Remaining Tax Depreciation	Line 16 * Line 17	\$159,395	2030	4.462%	\$189,658
				2031	4.461%	\$189,616
19	Cost of Removal	Page 10 of 26, Line 12 + Line 13	(\$924,903)	2032	4.462%	\$189,658
				2033	4.461%	\$189,616
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18 and 19	\$7,826,326	2034	2.231%	\$94,829
					100.000%	\$4,250,525

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 12 of 26

The Narragansett Electric Company	d/b/a National Grid	FY 2018 Electric ISR Revenue Requirement Reconciliation	FY 2018 Revenue Requirement on FY 2013 Actual Incremental Capital Investra
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Line No.			Fiscal Year $\frac{2013}{601}$	Fiscal Year $\frac{2014}{\langle h \rangle}$	Fiscal Year $\frac{2015}{(6)}$	Fiscal Year $\frac{2016}{60}$	Fiscal Year $\frac{2017}{(a)}$	Fiscal Year $\frac{2018}{4}$
7 7	Captial Additions Allowance Non-Discretionary Captial Non-Discretionary Additions Work Order Write Off Adjustment	Per RIPUC Docket No. 4307 Per Company's books	(\$5,184,396) (\$576,955)	0\$	95 95 (2)	0\$ 80	0\$ 0\$	0\$ \$
ε 4	Discretionary Capital Lesser of Actual Discretionary Capital Additions or Spending or Approved Spending Work Order Write Off Adjustment	Per RIPUC Docket No. 4307 Per Company's books	(\$1,850,463) (\$207,197)	0\$	O\$ O\$	0\$	0\$	80 \$
5	Total Allowed Capital Included in Rate Base in Current Year	Line 1 + Line 2 + Line 3 + Line 4	(\$7,819,012)	80	0\$	80	80	80
9 1 8	Depreciable Net Capital Included in Rate Base Total Allowed Capital Included in Rate Base in Current Year Retirements Net Depreciable Capital Included in Rate Base	Line 5 Year 1 = Line 6 - Line 7; then = Prior Year Line 8	(\$7,819,012) 1/ \$5,838,935 (\$13,657,947)	\$0 \$0 (\$13,657,947)	\$0 \$0 (\$13,657,947)	\$0 \$0 (\$13,657,947)	\$0 \$0 (\$13,657,947)	\$0 \$0 (\$13,657,947)
9 01 11	Change in Net Capital Included in Rate Base Capital Included in Rate Base Depreciation Expense Incremental Capital Amount	Line 5 Year 1 = Line 9 - Line 10; then = Prior Year Line 11	(\$7,819,012) \$0 (\$7,819,012)	\$0 \$0 (\$7,819,012)	\$0 \$0 (\$7,819,012)	\$0 \$0 (\$7,819,012)	\$0 \$0 (\$7,819,012)	\$0 \$0 (\$7,819,012)
12 13	Total Cost of Removal Work Order Write Off Adjustment	Page 16 of 26, Line 6(b) Page 16 of 26, Line 6(t)	(\$1,895,059) (\$106,751)	(\$1,895,059) (\$106,751)	(\$1,895,059) (\$106,751)	(\$1,895,059) (\$106,751)	(\$1,895,059) (\$106,751)	(\$1,895,059) (\$106,751)
4	Total Net Plant in Service	Line 11 + Line 12 + Line 13	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)	(\$9,820,822)
15	<u>Deferred Tax Calculation:</u> Composite Book Depreziation Rate	Year I: as approved per R.I.P.U.C. Docket No. 4065; then Docket No. 4323	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%
16	Tax Depreciation Cumulative Tax Depreciation	Year I = Page 13 of 26, Line 20; then = Page 13 of 26, Column (d), Line 5 Year I = Line ; then = Prior Year Line 16 + Current Year Line	(\$6,531,672) (\$6,531,672)	(\$246,695) (\$6,778,367)	(\$228,173) (\$7,006,540)	(\$211,087) (\$7,217,627)	(\$195,230) (\$7,412,857)	(\$180,604) (\$7,593,461)
18	Book Depreciation Cumulative Book Depreciation	Year 1 = Line 8 * Line 15 * 50%; then = Line 8 * Line 15 Year 1 = Line 18; then = Prior Year Line 19 + Current Year Line 18	(\$232,185) (\$232,185)	(\$464,370) (\$696,555)	(\$464,370) (\$1,160,925)	(\$464,370) (\$1,625,296)	(\$464,370) (\$2,089,666)	(\$464,370) (\$2,554,036)
8 12 12 18		Line 17- Line 19  Line 20 * Line 21  Page 21 of 26, Line 12()  Column (a) through (c) = nâ; Column (f) = Page 24 of 26, Line 40(g)	2/ 35.00% (\$2.204.820) (\$2.342,381) (\$2.342,381)	(\$6,081,812) 35.00% (\$2,128,634) (\$2,342,381) \$0	(\$5,845,615) 35.00% (\$2,045,965) (\$2,342,381) \$0	(\$5,592,331) 35.00% (\$1,957,316) (\$2,342,381) \$0	(\$5,323,191) 35.00% (\$1,863,117) (\$2,342,381) \$0	(\$5,039,425) 21.00% (\$1,058,279) (\$2,342,381) (\$53,922)
72	Excess Deferred Tax Net Deferred Tax Reserve	Column (a) through (e) = $n^4$ a; Column (f) = $P_{\text{age}}$ 25 of 26, Line 2(f) Sum of Lines 22 through 25	\$0 (\$4,547,202)	\$0 (\$4,471,016)	\$0 (\$4,388,347)	\$0 (\$4,299,697)	\$0 (\$4,205,498)	(\$715,451)
72 88 88	Rare Base Calculation: Cumulain'e Incremental Capital Included in Rate Base Accumulated Depreciation Deferred Tax Reserve Vent Fad Rate Base	Line 14	(\$9,820,822) \$232,185 \$4,547,202 (\$5,041,435)	(\$9,820,822) \$696,555 \$4,471,016 (\$4,653.251)	(\$9,820,822) \$1,160,925 \$4,388,347 (\$4,271,550)	(\$9,820,822) \$1,625,296 \$4,299,697 (\$3,895,829)	(\$9,820,822) \$2,089,666 \$4,205,498 (\$3,525,658)	(\$9,820,822) \$2,554,036 \$4,170,034 (\$3,096,782)
3 3 3 3 3 3	Reve	Year I = Current Year Line 29 ÷ 2; then = Average of Prior and Current Year Line 29 Page 26 of 26, Line 29, Line 40, Line 54 Line 31 * Line 32 Line 18 Line 32 Year I = \$0, then Prior Year (Line - Line 18) * Current Year Effective Property Tax rate	(\$2,520,717) 9,84% (\$248,039) (\$232,18S)	(\$4,847,343) 9,68% (\$469,223) (\$464,370) (\$550,952)	(\$4,462,400) 9,68% (\$431,960) (\$464,370) (\$374,039)	(\$4,083,689) 9,68% (\$395,301) (\$464,370) (\$324,300)	(\$3.710,743) 9.68% (\$359,200) (\$464,370) (\$284,593)	(\$3,311,205) 9,36% (\$309,929) (\$464,370) (\$249,198)
36	Annual Revenue Requirement	Sum of Lines 33 through 35	(\$480,224)	(\$1,284,545)	(\$1,270,370)	(\$1,183,971)	(\$1,108,163)	(\$1,023,497)
33	=	conciliation Filing RIPUC Docket No. 4539	(\$433,148) \$0 (\$47,076)	(\$1,160,601) \$0 (\$123,944)	(\$1,133,816) \$0 (\$136,554)	(\$1,075,239) \$0 (\$108,732)		
	1/ Actual Retirements							

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 13 of 26

FY 2018 Electric ISR Revenue Requirement Reconciliation Calculation of Tax Depreciation and Repairs Deduction on FY2013 Incremental Capital Investments The Narragansett Electric Company d/b/a National Grid

9

<u>0</u>

(p)

Fiscal Year  $\frac{2013}{(a)}$ 

Page 12 of 26, Line 5				
Capital Repairs Deduction Rate         Per Tax Department         1/           Capital Repairs Deduction         Line 1 * Line 2         1           Bonus Depreciation         Line 1         (\$\$           Plant Additions         Line 3         (\$\$           Less Capital Repairs Deduction         Line 3         (\$\$           Percent of Plant Eligible for Bonus Depreciation         Line 4 + Line 5         (\$\$           Percent of Plant Eligible for Bonus Depreciation         Part Eligible for Bonus Depreciation         1 * 75% * 50%         (\$\$           Bonus Depreciation Rate (April 2012 - December 2012)         Bonus Depreciation Rate (April 2013 - March 2013)         1 * 25% * 50%         (\$\$           Bonus Depreciation Rate (April 2012 - March 2013)         Line 9 * Line 10         (\$\$           Bonus Depreciation Rate         Line 9 * Line 10         (\$\$           Bonus Depreciation         Line 8 * Line 11         (\$\$           Remaining Tax Depreciation         Line 8 * Line 11         (\$\$           Less Capital Repairs Deduction         Line 3         Line 12         \$           Less Bonus Depreciation         Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation         Part RS Publication 946         Enter 17           Cost of Removal         Page 12 of 26, Line 12 + Line 13         (\$\$	(\$7,819,012)	<ol> <li>Year MACRS Depreciation</li> </ol>	eciation.	
Dine 1 * Line 2	1/ 12.59%	%		
Line 1   Line 1   Line 1	(\$984,414)	4) MACRS basis:	Line 16	(\$3,417,299)
Plant Additions  Less Capital Repairs Deduction  Plant Additions  Less Capital Repairs Deduction  Plant Additions Net of Capital Repairs Deduction  Percent of Plant Eligible for Bonus Depreciation  Plant Eligible for Bonus Depreciation  Plant Bonus Depreciation Rate (January 2013 - March 2013)  Total Bonus Depreciation Rate (January 2013 - March 2013)  Remaining Tax Depreciation Rate  Plant Additions  Less Capital Repairs Deduction  Line 1  Line 1  Line 3 + Line 10  Line 8 * Line 11  Remaining Plant Additions  Less Capital Repairs Deduction  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  Remaining Tax Depreciation  Remaining Tax Depreciation  Active 12  Sum of Line 13 through Line 15  Page 12 of 26, Line 12 + Line 13  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19		Fiscal Year		
Less Capital Repairs Deduction Plant Additions Net of Capital Repairs Deduction Plant Additions Net of Capital Repairs Deduction Percent of Plant Eligible for Bonus Depreciation Plant Burbonus Depreciation Rate (April 2012 - December 2012) Bonus Depreciation Rate (January 2013 - March 2013) Total Bonus Depreciation Remaining Tax Depreciation Plant Additions Less Capital Repairs Deduction Less Bonus Depreciation Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation Remaining Tax Depreciation Repairs Deduction Sum of Line 13 - Line 13 Total Tax Depreciation and Repairs Deduction Sum of Lines 3, 12, 18, 19	(\$7,819,012)		3.750%	(\$128,149)
Plant Additions Net of Capital Repairs Deduction Percent of Plant Eligible for Bonus Depreciation Pant Eligible for Bonus Depreciation Pant Eligible for Bonus Depreciation Pant Eligible for Bonus Depreciation Bonus Depreciation Rate (April 2012 - December 2012) Bonus Depreciation Rate (January 2013 - March 2013) Total Bonus Depreciation Rate Bonus Depreciation Rate Bonus Depreciation Plant Additions Less Capital Repairs Deduction Plant Additions Less Bonus Depreciation Remaining Tax Depreciation Sum of Line 12 + Line 13 Total Tax Depreciation and Repairs Deduction Sum of Lines 3, 12, 18, 19	\$984,414	4 2014	7.219%	(\$246,695)
Percent of Plant Eligible for Bonus Depreciation Bonus Depreciation Rate (April 2012 - December 2012) Bonus Depreciation Rate (January 2013 - March 2013) Total Bonus Depreciation Rate Bonus Depreciation Bonus Depreciation Plant Additions Less Capital Repairs Deduction Remaining Tax Depreciation Active 13 Cost of Removal Total Tax Depreciation Sum of Line 12 + Line 13 Sum of Line 12 + Line 13 Sum of Line 13 + Line 13	(\$6,834,598)	8) 2015	6.677%	(\$228,173)
Plant Eligible for Bonus Depreciation  Bonus Depreciation Rate (April 2012 - December 2012)  Bonus Depreciation Rate (April 2012 - December 2013)  Total Bonus Depreciation Rate Bonus Depreciation Rate Bonus Depreciation Rate  Remaining Tax Depreciation  Lass Bonus Depreciation  Plant Additions  Less Capital Repairs Deduction  Less Bonus Depreciation  Lass Bonus Depreciation  Lass Capital Repairs Deduction  Lass Bonus Depreciation  Cost of Removal  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Line 12 + Line 13  Total Tax Depreciation and Repairs Deduction  Sum of Line 3 + Line 15  Page 12 of 26, Line 12 + Line 13  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19	100.00%	2016	6.177%	(\$211,087)
Bonus Depreciation Rate (April 2012 - December 2012)  Bonus Depreciation Rate (Inc. 2013)  Total Bonus Depreciation Rate  Bonus Depreciation Rate  Remaining Tax Depreciation  Remaining Tax Depreciation  Remaining Tax Depreciation  Remaining Tax Depreciation  Less Bonus Depreciation  Line 1  Sum of Line 13  Per IRS Publication 946  Line 16 * Line 17  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Line 12 + Line 13  Total Tax Depreciation and Repairs Deduction  Sum of Line 13 + 19, 19	(\$6,834,598)	8) 2017	5.713%	(\$195,230)
Bonus Depreciation Rate (January 2013 - March 2013)  Total Bonus Depreciation Rate  Bonus Depreciation Rate  Remaining Tax Depreciation  Plant Additions  Less Capital Repairs Deduction  Less Bonus Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  Cost of Removal  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Line 12 + Line 13  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19	37.50%	2018	5.285%	(\$180,604)
Total Bonus Depreciation Rate Bonus Depreciation Remaining Tax Depreciation Plant Additions Less Capital Repairs Deduction Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation Remaining Plant Addition Subject to 20 YR MACRS Tax Depreciation Remaining Plant Addition Rates Remaining Plant Addition Subject to 20 YR MACRS Tax Depreciation Remaining Tax Depreciation Rates Remaining Tax Depreciation Rates Cost of Removal  Cost of Removal  Total Tax Depreciation and Repairs Deduction Sum of Lines 3, 12, 18, 19	12.50%	2019	4.888%	(\$167,038)
Remaining Tax Depreciation Remaining Tax Depreciation Plant Additions Less Capital Repairs Deduction Less Bonus Depreciation Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation Remaining Tax Depreciation Rates Remaining Tax Depreciation Cost of Removal Total Tax Depreciation and Repairs Deduction Sum of Line 13 Sum of Line 12 Line 15 Per IRS Publication 946 Line 17 Cost of Removal Sum of Line 13 through Line 13	20.00%	2020	4.522%	(\$154,530)
Remaining Tax Depreciation Plant Additions Less Capital Repairs Deduction Less Bonus Depreciation Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation Remaining Tax Depreciation Remaining Tax Depreciation Cost of Removal Total Tax Depreciation and Repairs Deduction Sum of Line 1  Sum of Line 1  Fage 12 of 26, Line 12 + Line 13  Total Tax Depreciation and Repairs Deduction Sum of Lines 3, 12, 18, 19	(\$3,417,299)	_	4.462%	(\$152,480)
Remaining Tax Depreciation Plant Additions Less Capital Repairs Deduction Less Bonus Depreciation Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation Remaining Tax Depreciation Cost of Removal Total Tax Depreciation and Repairs Deduction Sum of Line 1  - Line 1  Sum of Line 12  Fage 12 of 26, Line 17  Sum of Lines 3, 12, 18, 19		2022	4.461%	(\$152,446)
Plant Additions  Less Capital Repairs Deduction  Less Bonus Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  Remaining Tax Depreciation Rates  Remaining Tax Depreciation  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Line 1  Sum of Line 13  Page 12 of 26, Line 12 + Line 13  Sum of Lines 3, 12, 18, 19		2023	4.462%	(\$152,480)
Less Capital Repairs Deduction  Less Bonus Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  20 YR MACRS Tax Depreciation Rates  Remaining Tax Depreciation  Cost of Removal  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19	(\$7,819,012)	2) 2024	4.461%	(\$152,446)
Less Bonus Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  20 YR MACRS Tax Depreciation Rates  Remaining Tax Depreciation  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19	\$984,414	4 2025	4.462%	(\$152,480)
Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation  20 YR MACRS Tax Depreciation Rates  20 YR MACRS Tax Depreciation Plates  Remaining Tax Depreciation  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19	\$3,417,299	9 2026	4.461%	(\$152,446)
20 YR MACRS Tax Depreciation Rates  Remaining Tax Depreciation  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19	15 (\$3,417,299)	9)	4.462%	(\$152,480)
Remaining Tax Depreciation  Line 16 * Line 17  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Line 16 * Line 17  Page 12 of 26, Line 12 + Line 13  Sum of Lines 3, 12, 18, 19	3.750%	2028	4.461%	(\$152,446)
Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19	(\$128,149)	9) 2029	4.462%	(\$152,480)
Cost of Removal  Cost of Removal  Total Tax Depreciation and Repairs Deduction  Sum of Lines 3, 12, 18, 19		2030	4.461%	(\$152,446)
Total Tax Depreciation and Repairs Deduction	13 (\$2,001,810)	0) 2031	4.462%	(\$152,480)
Total Tax Depreciation and Repairs Deduction Sum of Lines 3, 12, 18, 19		2032	4.461%	(\$152,446)
	(\$6,531,672)	2) 2033	2.231%	(\$76,240)
			100.000%	(\$3,417,299)

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 14 of 26

The Narragansett Electric Company	0/0/a National Grad FY 2018 Electric ISR Revenue Requirement Reconciliation	FY 2018 Revenue Requirement on FY 2012 Actual Incremental Capital Investmen
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		FY 2018 Revenue Requirement on FY 2012 Actual Incremental Capital Investment	tment						
Line No.			Fiscal Year F 2012 (a)	Fiscal Year 2013 (b)	Fiscal Year 1 2014 (c)	Fiscal Year 1 2015 (d)	Fiscal Year 2016 (e)	Fiscal Year F 2017 (f)	Fiscal Year 2018 (g)
-	Capital Additions Allowance Non-Discretionary Capital Non-Discretionary	Per RIPUC Docket No. 4218	(\$4,019,686)	80	0\$	\$	\$	\$0	80
2	Discretionary Capital Approved Spending	Per RIPUC Docket No. 4218	\$4,163,942	\$0	\$0	\$0	\$0	80	80
ж	Total Allowed Capital Included in Rate Base	Line 1 + Line 2	\$144,256	80	80	80	80	80	80
4 v	Depreciable Net Capital Included in Rate Base Total Allowed Capital Included in Rate Base in Current Year Retirements	Line 3	\$144,256	80	80	80	80	\$0	\$0
9	Net Depreciable Capital Included in Rate Base	Year $I = L$ ine 4 - Line 5; then = Prior Year Line 6	\$124,318	\$124,318	\$124,318	\$124,318	\$124,318	\$124,318	\$124,318
	Change in Net Capital Included in Rate Base								
7	Incremental Capital Amount	Year I = Line 4; then = Prior Year Line 7	\$144,256	\$144,256	\$144,256	\$144,256	\$144,256	\$144,256	\$144,256
∞	Cost of Removal	Page 16 of 26, Line 6(a)	(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)	(\$771,131)
6	Total Net Plant in Service	Line 7 + Line 8	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)	(\$626,875)
	Deferred Tax Calculation:								
10	Composite Book Depreciation Rate	Year 1 and 2: as approved per R.I.P.U.C. Docket No. 4065; then Docket No. 4323	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%	3.40%
11	Tax Depreciation Cumulative Tax Depreciation	Year 1 = Page 15 of 26, Line 20; then = Page 15 of 26, Column (d). Line 5 Year 1 = Line 11; then = Prior Year Line 12 + Current Year Line 11	(\$654,965) (\$654,965)	\$2,107 (\$652,858)	\$1,949 (\$650,909)	\$1,803 (\$649,107)	\$1,667 (\$647,439)	\$1,542 (\$645,897)	\$1,427 (\$644,471)
13	Book Depreciation Cumulative Book Depreciation	Year 1 = Line 6 * Line 10 * 50%; then = Line 6 * Line 10 Year 1 = Line 13; then = Prior Year Line 14 + Current Year Line 13	(\$2,113) (\$2,113)	(\$4,227) (\$6,340)	(\$4,227) (\$10,567)	(\$4,227) (\$14,794)	(\$4,227) (\$19,021)	(\$4,227) (\$23,247)	(\$4,227) (\$27,474)
15 16 17 18	Cumulaive Book / Tax Timer Effective Tax Rane Deferred Tax Reserve Less: FY 2013 Federal NOL	Line 12 - Line 14 Line 15 * Line 16 Page 21 of 26, Line 12(h)				_	0.00		(\$616,996) 21.00% (\$129,569) (\$3,434,992)
19 20 21	Less: Protation Adjustment Excess Deferred Tax Net Deferred Tax Reserve	Col (a) through (f) = n'a; Col (g) =Page 24 of 26, Line 40; Col (h) Col (a) through (f) = n'a; Col (g) =Page 25 of 26, Line 1(f) Sum of Lines 17 through 20	\$0 \$0 (\$3,663,490) (	\$0 \$0 (\$3,661,274) (	\$0 \$0 (\$3,659,112)	\$0 \$0 (\$3,657,002)	\$0 \$0 (\$3,654,939) (	\$0 \$0 (\$3,652,920)	(\$1,074) (\$86,577) (\$3,652,213)
22 24 24 25	Rate Base Calculation: Cumulative Incremental Capital Included in Rate Base Accumulated Depreciation Deforced Tar Reserve Ver Find Rate Base	Line 9 -Line 14 -Line 14 -Line 21 -Sum of Lines 24	(\$626,875) \$2,113 \$3,663,490 \$3,038,729	(\$626,875) \$6,340 \$3,661,274	(\$626,875) \$10,567 \$3,659,112 \$3,042,804	(\$626,875) \$14,794 \$3,657,002 \$3.044,921	(\$626,875) \$19,021 \$3,654,939 \$3.047.085	(\$626,875) \$23,247 \$3,652,920 \$3,049,292	(\$626,875) \$27,474 \$3,652,213 \$3,052,812
26 27 28 29	Revenue Requirement Calculation: Average Rate Base Pre-Tax ROR Return and Taxes Book Depreciation	Year 1 = Current Year Line 25 ÷ 2; then = Avenge of Prior and Current Year Line 25 Page 26 of 26, Line 29, Line 40, Line 54 Line 26 ** Line 27 Line 13							\$3,051,052 9,36% \$285,578 (\$4,227)
30	Property Taxes	Yar I = 50, then Prior Year (Line 9 - Line 14) * Current Year Effective Property Tax rate	80	(\$21,523)	(\$22,710)	(\$24,344)	(\$23,626)	(\$21,108)	(\$19,457)
31	Annual Revenue Requirement	Sum of Lines 28 through 30	\$139,188	\$273,360	\$267,506	\$266,075	\$267,000	\$269,730	\$261,894

2/ The federal Income Tax rate changed from 35% to 21% on Janurary 1, 2018 per the Tax Cuts and Jobs Act of 2017

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 15 of 26

		u	I Canital Invest
The Narragansett Electric Company	d/b/a National Grid	FY 2018 Electric ISR Revenue Requirement Reconciliation	lculation of Tay Denreciation and Renairs Deduction on FV2012 Incremental Canital Invest

Line			Fiscal Year 2012			
No.			(a)	(b)	(3)	(p)
	Capital Repairs Deduction					
-	Plant Additions	Page 14 of 26, Line 3	\$144,256	20 Year MACRS Depreciation	eciation	
2	Capital Repairs Deduction Rate	Per Tax Department	1/ 21.05%			
$\alpha$	Capital Repairs Deduction	Line 1 * Line 2	\$30,366	MACRS basis:	Line 16	\$29,184
	Bonus Depreciation			Fiscal Year		
4	Plant Additions	Line 1	\$144,256	2012	3.750%	\$1,094
S	Less Capital Repairs Deduction	- Line 3	(\$30,366)	2013	7.219%	\$2,107
9	Plant Additions Net of Capital Repairs Deduction	Line 4 + Line 5	\$113,890	2014	6.677%	\$1,949
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	2/ 85.00%	2015	6.177%	\$1,803
∞	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$96,807	2016	5.713%	\$1,667
6	Bonus Depreciation Rate (April 2011 - December 2011)	1*75%*100%	75.00%	2017	5.285%	\$1,542
10	Bonus Depreciation Rate (January 2012 - March 2012)	1*25%*50%	12.50%	2018	4.888%	\$1,427
11	Total Bonus Depreciation Rate	Line $9 + \text{Line } 10$	87.50%	2019	4.522%	\$1,320
12	Bonus Depreciation	Line 8 * Line 11	\$84,706	2020	4.462%	\$1,302
				2021	4.461%	\$1,302
	Remaining Tax Depreciation			2022	4.462%	\$1,302
13	Plant Additions	Line 1	\$144,256	2023	4.461%	\$1,302
41	Less Capital Repairs Deduction	- Line 3	(\$30,366)	2024	4.462%	\$1,302
15	Less Bonus Depreciation	- Line 12	(\$84,706)	2025	4.461%	\$1,302
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Sum of Line 13 through Line 15	\$29,184	2026	4.462%	\$1,302
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	2027	4.461%	\$1,302
18	Remaining Tax Depreciation	Line 16 * Line 17	\$1,094	2028	4.462%	\$1,302
				2029	4.461%	\$1,302
19	Cost of Removal	Page 14 of 26, Line 8	(\$771,131)	2030	4.462%	\$1,302
				2031	4.461%	\$1,302
20	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19	(\$654,965)	2032	2.231%	\$651

Per Docket 4307 FY 2013 Electric ISR Reconciliation Filing at Attachment WRR-1, Page 8, Line 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, 5 =

### The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 16 of 26

### The Narragansett Electric Company d/b/a National Grid FY 2018 Electric ISR Revenue Requirement Reconciliation FY 2012 - 2014 Incremental Capital Investment Summary

		FY 2012 - 2014 Incremental Capital Investment Summary			
Line No.			Actual Fiscal Year 2012 (a)	Actual Fiscal Year 2013 (b)	Fiscal Year 2014 (c)
	Capital Investment				
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 Reconcilation 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
	Cost of Removal				
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)
	Retirements				
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 RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 17 of 26

# The Narragansett Electric Company d/b/a National Grid FY 2018 Electric ISR Revenue Requirement Reconciliation FY 2018 Capital Investment

Actuals (a)		\$205,926,007 \$56,750,256	\$262,676,263	\$240,322,956	\$308,569,636	As Approved in Docket No. 4539	\$226,735,536	\$294,123,536	Total Allowed	\$262,676,263	\$205,926,007	\$56,750,256
	Docket No. 4592 FY17 Reconciliation Att. AM-1 Page 15.	Line 3 Attachment PSA-1, Page 3, Table 1	Line $1 + \text{Line } 2$	Docket No. 4592 FY17 Reconciliation Att. AM-1 Page 15, Line 6 Attachment PSA-1. Page 5. Table 3	Line 4 + Line 5		Docket No. 4592 FY17 Reconciliation Att. AM-1 Page 15, Line 9 Attachment PSA-1. Page 5, Table 3	Line 7 + Line 8		Lesser of Line 3, Line 6, or Line 9 Docket No. 4592 FV17 Reconciliation Att AM-1 Page 15	Line 10	Line 10 - Line 11
	Discretionary Capital	Cumulative FY 2017 Discretionary Capital ADDITIONS FY 2018 Discretionary Capital ADDITIONS	Cumulative Actual Discretionary Capital Additions	Cumulative FY 2017 Discretionary Capital SPENDING FY 2018 Discretionary Canital SPENDING	Cumulative Actual Discretionary Capital Spending		Cumulative FY 2017 Approved Discretionary Capital SPENDING FY 2018 Approved Discretionary Capital SPENDING	Cumulative Actual Approved Discretionary Capital Spending		Cumulative Allowed Discretionary Capital Included in Rate Base	Prior Year Cumulative Allowed Disretionary Capital Included in Rate Base	Total Allowed Discretionary Capital Included in Rate Base Current Year
Line	No.	1 2	$\omega$	4 v	9		r «	6		10	11	12

The Narragansett Electric Company
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																				(E)	Cumulative Increm. ISR Prop. Tax for FY16			\$89 \$1,523 \$1,451	(\$1,773) (\$5) (\$91) (\$1,869) (\$1,193 \$1,192 \$1,192
																				9	e Increm. ISR	\$72,003 (\$43,032) (\$740) \$8,193	\$36,425	3.98%	3.74% 3.98% -0.24% 57.46.900 * 0.24% 52.234 * 0.24% \$38.234 * 0.24% \$36,425 * -0.24%
																				(3)	Cumulativ				3.74% 3.98% \$746,900 \$2,234 \$38,234 \$36,425
	(g)	End of FY 2014	\$1,370,180	\$618,789	\$751,391	\$27,502	3.66%	End of FY 2015	\$1,436,655	\$642,649	\$794,006	\$32,549	4.10%	End of FY 2016	\$1,497,942	\$654,652	\$843,290	\$31,580	3.74%	(g)	-1				
	(b)	COR		(\$828)				COR		(\$6,988)				COR		(\$8,193)				g	ax for FY15			\$102	\$875 \$3 \$46 \$924 \$2.590 \$2.590 (0)
	9	Retirements	\$550	\$550				Retirements	(\$15,666)	(\$15,666)				Retirements	(\$28,490)	(\$28,490)				9	Cumulative Increm. ISR Prop. Tax for FY15	\$76,340 (\$43,032) (\$1,031) \$6,988	\$39,266	3.98%	0.12% * 0.12% * 0.12% * 0.12%
ny Justment	(e)	Bk Depr (1)		\$7,498				Bk Depr (1)		\$46,514				Bk Depr (1)		\$48,686				<b>(e)</b>	Cumulative I				4.10% 3.98% \$746,900 * 0.12% \$2,568 * 0.12% \$39,266 * 0.12%
The Narragansett Electric Company d/ba Narional Grid Frid FY 2018 ISR Property Tax Recovery Adjustment (0008)	(p)	Total Add's	\$11,160					Total Add's	\$82,141					Total Add's	\$89,777					(g)	•				
ne Narragansett d/b/a Nat ISR Property T	(2)	Non-ISR Add's	\$1,885					Non-ISR Add's	\$5,801					Non-ISR Add's	\$17,773					(c)	ax for FY14			\$104	(\$401) (\$401) (\$409) (\$306) (\$306) (\$304)
TI FY 2018	<b>(</b> e)	ISR Additions	\$9,275					ISR Additions	\$76,340					ISR Additions	\$72,003					<b>②</b>	Cumulative Increm. ISR Prop. Tax for FY14	2 mos \$9,275 (\$7,173) (\$324) \$828	\$2,605	3.98%	-0.32% -0.05% -0.05% -0.32% -
	(a)	RY End	\$1,358,470	\$611,570	\$746,900	\$29,743	3.98%	End of FY 2014	\$1,370,180	\$618,789	\$751,391	\$27,502	3.66%	End of FY 2015	\$1,436,655	\$642,649	\$794,006	\$32,549	4.10%	(a)	Cumulative I	ı		•	3.66% 3.98% \$746,900 \$2,605
			Plant In Service	Accumulated Depr	Net Plant	Property Tax Expense	Effective Prop tax Rate	Effective tax Rate Calculation	Plant In Service	Accumulated Depr	Net Plant	Property Tax Expense	Effective Prop tax Rate	Effective tax Rate Calculation	Plant In Service	Accumulated Depr	Net Plant	Property Tax Expense	Effective Prop tax Rate	Pronerty Tax Recovery Calculation	- Command Cracoss on Andrew	ISR Additions  Book Depreciation: base allowance on ISR eligible plant  Book Depreciation: current year ISR additions  COR	Net Plant Additions	RY Effective Tax Rate ISR Property Tax Recovery on FY 2014 vintage investment ISR Property Tax Recovery on FY 2015 vintage investment ISR Property Tax Recovery on FY 2016 vintage investment	ISR Year Effective Tax Rate RY Effective Tax Rate 2 mos for FY 2014 RY Effective Tax Rate 2 mos for FY 2014 RY Net Plant times 2 mo rate FY 2014 Net Adds innes ISR Year Effective Tax rate FY 2015 Net Adds innes ISR Year Effective Tax rate FY 2015 Net Adds innes ISR Year Effective Tax rate FY 2016 Net Adds innes ISR Year Effective Tax rate Total Property Tax Recovery Total ISR Property Tax Recovery As Approved in RIPICC DOCKEN No. 4539 Work Order Write Off Adjustment
	Line		-	2	33	4	5		9	7	œ	6	10		11	12	13	14	15			16 17 18 19	20	22 23 24 24	33 33 33 33 34 34 34 35 35 35 35 35 35 35 35 35 35 35 35 35

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 19 of 26

	( <b>p</b> )	End of FY 2017	\$1,561,904	\$675,416	\$886,489	\$30,784	3.47%	End of FY 2018	\$1,645,258	\$703,549	\$941,709	\$30,354	3.22%	( <b>j</b> )				\$62 \$1,358 \$1,333 \$1,495 \$2,321		(\$5,668)	(\$12)	(\$254)	(\$285) (\$442)	(\$6,920)	(\$350)
	(g)	COR		(\$7,807)				COR		(86,980)				(g)	x for FY18				-0.76%	* -0.76%	* -0.76%	*-0.76%	*-0.76%		Ţ
	<b>(</b> j)	Retirements	(\$22,245)	(\$22,245)				Retirements	(\$15,207)	(\$15,207)				<b>(</b> 2)	Cumulative Increm. ISR Prop. Tax for FY18	\$92,660 (\$43,032) (\$1,317) \$9,980	\$58,291	3.98%	3.22%		* \$1,566 *				
my ient (continued)	(e)	Bk Depr (1)		\$50,815				Bk Depr (1)		\$53,320				(e)	Cumulative Inc	ļ		I							
The Narragansett Electric Company dhba National Grid FY 2018 ISR Property Tax Recovery Adjustment (continued) (000s)	( <b>p</b> )	Total Add's	\$86,207					Total Add's	\$98,560					( <b>p</b> )	•										
he Narraganset d/b/a Na Property Tax Ro (0	(c)	Non-ISR Add's	\$10,718					Non-ISR Add's	\$5,901					(c)	ax for FY17			\$76 \$1,440 \$1,392 \$1,567		(\$3,807)	(\$10)	(\$178)	(\$201)	(\$4,379)	\$96
T FY 2018 ISR	<b>(</b> P)	ISR Additions	\$75,489					ISR Additions	\$92,660					<b>(</b> P)	Cumulative Increm. ISR Prop. Tax for FY17	\$75,489 (\$43,032) (\$905) \$7,807	\$39,359	3.98%	-0.51%	-0.51%	*-0.51%	*-0.51%	*-0.51%		ļ
	(a)	End of FY 2016	\$1,497,942	\$654,652	\$843,290	\$31,580	3.74%	End of FY $\frac{2017}{}$	\$1,561,904	\$675,416	\$886,489	\$30,784	3.47%	(a)	Cumulative Ir	ļ		!	3.47%	\$746,900 *-0.51%	\$1,900 *		\$39,359 *		
		Effective tax Rate Calculation	Plant In Service	Accumulated Depr	Net Plant	Property Tax Expense	Effective Prop tax Rate	Effective tax Rate Calculation	Plant In Service	Accumulated Depr	Net Plant	Property Tax Expense	Effective Prop tax Rate	Decreate Tay Decrease Calmining	rioperly tax recovery carculation	ISR Additions  Book Depreciation: base allowance on ISR eligible plant  Book Depreciation: current year ISR additions  COR	Net Plant Additions	RY Effective Tax Rate ISR Property Tax Recovery on FY 2014 vintage investment ISR Property Tax Recovery on FY 2015 vintage investment ISR Property Tax Recovery on FY 2017 vintage investment ISR Property Tax Recovery on FY 2017 vintage investment ISR Property Tax Recovery on FY 2018 vintage investment	ISR Year Effective Tax Rate RY Effective Tax Rate RY Effective Tax Rate PY Fffective Tax Rate 2 most fre FY 2014	RY Net Plant times 2 mo rate	FY 2014 Net Adds times ISR Year Effective Tax rate	FY 2015 Net Adds times ISR Year Effective Tax rate	FY 2017 Net Adds times ISR Year Effective Tax rate FY 2018 Net Adds times ISR Year Effective Tax rate	Total Property Tax due to rate differential	Total ISR Property Tax Recovery
			35	36	37	38	39		40	41	42	43	4			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	49	50 51 53 53 55	56 57 58	59	9 5	62	£ 2	92	99

The Narragansett Electric Company
d/b/a National Grid
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FY 2018 Electric Infrastructure, Safety,
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The Narragansett Electric Company dh'a National Grid FY 2018 ISR Property Tax Recovery Adjustment (continued) (000bs)

Line Notes		Line Notes	
1(a) - 5(a)	Per Rate Y ear cost of service	45(a) - 66(c)	Per FY 2017 Electric ISR Compliance Filing per Docket 4592
1(b) - 5(h)	Per FY 2017 Electric ISR Compliance Filing per Docket 4592	45(f)	Line 40(b)
6(a) - 10(h)	Per FY 2017 Electric ISR Compliance Filing per Docket 4592	46(f)	Per Page 2 of 26, Line 8
11(a) - 15(h)	Per FY 2017 Electric ISR Compliance Filing per Docket 4592	47(f)	Per Page 2 of 26, Line 16
16(a) - 34(k)	Per FY 2017 Electric ISR Compliance Filing per Docket 4592	48(f)	Line 41(g)
35(a) - 39(h)	Per FY 2017 Electric ISR Compliance Filing per Docket 4592	49(f)	Sum of Lines 45 through 48
40(a)	Line 35(h)	50(f)	Line 5(a)
40(b)	Per Page 3 of 26, Line 1	51(h)	Line 50(f) * Line 60(f)
40(c)	Per Company's books	52(h)	Line 50(f) * Line 61(f)
40(d)	Line $40(b)$ + Line $40(c)$	53(h)	Line 50(f) * Line 62(f)
40(f)	Page 2 of 26, Line 5	54(h)	Line 50(f) * Line 63(f)
40(h)	Line $40(a) + Line 40(d) + Line 40(f)$	55(h)	Line 50(f) * Line 64(f)
41(a)	Per Line 36(h)	56(f)	Line 44(h)
41(e)	Rate Year depr allowance of \$44,986 + (Line 1(d)+1(f)* comp depr rate of	57(f)	Line 5(a)
	3.40%) + (Line $6(d)+6(f)$ * comp depr rate of $3.40%$ ) + (Line, $11(d)+11(f)$ *comp	57(g)	Line 56(f) - Line 57(f)
	depr rate of 3.40%) + (Line, 35(d)+35(f)*comp depr rate of 3.40%) + (Line	59(f)	Line 3(a)
	40(d) + 40(f)*comp depr rate of $3.40% *50%$ )	(J)09	Line 60(a) - ((Line 16(b)+Line 1(f))*3.40%)
41(f)	40(f)	(J)	Line 61(a) - ((Line 16(f)+Line 6(f))*3.40%)
41(g)	Page 2 of 26, Line 10	62(f)	Line 62(a) - ((Line 16(j)+Line 11(f))*3.40%)
41(h)	Line 41(a) + Line 41(e) + Line 41(f) + Line 41(g)	63(f)	Line 63(a) - ((Line 45(b)+Line 35(f))*3.40%)
42(a)	Line 37(h)	64(f)	Line 49(f)
43(a)	Line 42(h) * Line 44(h)	59(g) - 64(g)	Line 57(g)
43(h)	Per Company's books	59(h) - 64(h)	Lines 59(h) through 64(h), Col (f) * Col (g)
44(a)	Line 39(h)	65(h)	Sum of Lines 59(h) through 64(h)
44(h)	Line 43(h) / Line 42(h)	(q)99	Sum of Lines 51(h) through 55(h) + Line 65(h)

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 21 of 26

The Narragansett Electric Company
Mah, Nathonal Grid
FY 2018 Electric SR Revenue Requirement Reconciliation
Deferred Income Tax ("DIT") Provisions and Net Operating Losses ("NOL")

1 Total Base Rate Plant DIT Provision	(a)	<b>(</b> e)	©	(p)	9	9	(8)	(h) CY 2011 \$15,856,458	(i) CY 2012 \$5,546,827	(j) Jan-2013 \$521,151	(k) Feb 13 - Jan 14 (\$1,967,911)	€	(m)	(n)
2 Total Base Rate Plant DIT Provision	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2012 \$13.279.050		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)	(\$228,498)	\$2,217	\$2,161	\$2,110	\$2,063	\$2,019	\$88,358
4 Incremental FY 13 5 Incremental FY 14		(\$2,013,121)	(\$1,937,607) \$2,763,058	(\$2,045,965)	(\$1,957,316) \$2,439,963	(\$1,863,117)	(\$1,058,279)		(\$2,013,121)	\$75,514	(\$220,036)	\$88,649 (\$103,059)	\$94,199 (\$110,498)	\$804,838 (\$1,002,226)
6 FY 2015				\$24,793,846	\$24,814,134	\$24,778,689	\$14,815,098				\$24,793,846	\$20,288	(\$35,445)	(\$9,963,590)
7 FY 2016					\$20,940,288	\$21,076,521	\$12,698,189					\$20,940,288	\$136,232	(\$8,378,332)
8 FY 2017						\$19,328,456	\$11,675,997						\$19,328,456	(\$7,652,459)
9 FY 2018							\$10,849,155							\$10,849,155
10 TOTAL Plant DIT Provision	(\$228,498)	(\$228,498) (\$2,239,403)	\$601,331	\$25,068,893	\$46,017,122	\$65,432,086	\$50,177,829	\$13,050,552	\$2,342,381	\$1,200,808	\$24,467,561	\$20,948,229	\$19,414,964	(\$15,254,257)
11 Distribution-related NOL								\$3,434,992	\$8,552,548	99	\$8,148,936	\$10,693,796	80	\$0
12 Lesser of Distribution-related NOL or DIT Provision	T Provision							\$3,434,992		\$1,200,808	\$8,148,936	\$10,693,796	80	80
13 Total NOL								\$4,310,461	\$11,442,811	\$19,452,677	\$12,108,052	\$16,267,471	80	80
14 NOL recovered in transmission rates								\$875,468	\$2,890,262	\$6,273,321	\$3,959,116	\$5,573,675	80	\$0
15 Distribution-related NOL								\$3,434,992	\$8,552,548	\$13,179,356	\$8,148,936	\$10,693,796	0\$	0\$

<sup>1(</sup>h) Per Dkt 4323 Compliance filing Attachment 1. Page 64 of 71, Line 19(e) less Line 19(a) (1(f)-1(k) Per Dkt 4323 Compliance filing Attachment 1. Page 70 of 71, Lines 32, 42, and 48 3(a)-9(g) ADIT per virtinge speal FSR revenue requirement calculations 3(h)-9(n) Year over year change in ADIT shown in Cols (a) through (e) 10 Sunof Lines 2 through 9 11 Line 15 Lesser of Line 10 or 11 12 Lesser of Line 10 or 11 13 Per Tita Operatment 11 A Quantedly surget transmission plant allocator per Integrated Facilities Agreement (JFA) \* Line 13 15 Line 13 - Line 14 4

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1

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### The Narragansett Electric Company d/b/a National Grid

### FY 2018 Electric ISR Revenue Requirement Reconciliation True-Up for FY 2012 through FY 2016 Transmission - Related Net Operating Losses ("NOL")

			(a)	(b)		(c)		(d)	(e)
					Re	venue Requirer	nent	Year	
			FY 2012	FY 2013		FY 2014		FY 2015	FY 2016
1	Return on Rate Base		9.30%	9.84%		9.68%		9.68%	9.68%
				V	7inta	nge Capital Inve	stm	ent Year	
			FY 2012	FY 2013		FY 2014		FY 2015	FY 2016
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
3	Lesser of Distribution-related NOL or DIT Provision	\$	3,434,992	\$ 2,342,381	\$	1,200,808	\$	8,148,936	\$ 10,693,796
4	Transmission-related NOL adjustment	\$	(875,469)	\$ 0	\$	0	\$	(3,959,116)	\$ 493,047
	Revenue Requirement Increase due to NOL								
	Revenue Requirement increase due to NOL				Re	venue Requirer	nent	Year	
	Vintage Capital Investment Year		FY 2012	FY 2013		FY 2014		FY 2015	FY 2016
5	FY 2012	\$	(40,709)	\$ (86,146)	\$	(84,745)	\$	(84,745)	\$ (84,745)
6	FY 2013	\$	-	\$ 0	\$	0	\$	0	\$ 0
7	FY 2014	\$	-	\$ -	\$	0	\$	0	\$ 0
8	FY 2015	\$	-	\$ _	\$	-	\$	(191,621)	\$ (383,242)
9	FY 2016	\$	-	\$ -	\$	-	\$	-	\$ 23,863
10	TOTAL	\$	(40,709)	\$ (86,146)	\$	(84,745)	\$	(276,367)	\$ (444,124)
11	Total FY 2012 through FY 2016 revenue requirement impa	ct							\$ (932,091)

- 1 Per Docket No. 4065
- 2 Per Docket No. 4539
- 3 Per Page 21 of 26, Line 12
- 4 Line 3 Line 2
- 5 Line 4(a) \* Line 1(a) \* 50%; Line 4(a) \* Line 1(b); Line 4(a) \* Line 1(c); Line 4(a) \* Line 1(d); Line 4(a) \* Line 1(e)
- Line 4(b) \* Line 3(b) \* 50%; Line 4(b) \* Line 1(c); Line 4(b) \* Line 1(d); Line 4(b) \* Line 1(e)
- 7 Line 4(c) \* Line 1(c) \* 22.22%; Line 4(c) \* Line 1(d); Line 4(c) \* Line 1(e)
- 8 Line 4(d) \* Line 1(d) \* 50%; Line 4(d) \* Line 1(e)
- 9 Line 4(e) \* Line 1(e) \* 50%
- 10 Sum of Lines 5 through 9
- $11 \qquad Line \ 10(a) + Line \ 10(b) + Line \ 10(c) + Line \ 10(d) + Line \ 10(e)$

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 23 of 26

# The Narragansett Electric Company d/b/a National Grid FY 2018 Electric ISR Revenue Requirement Reconciliation True-Up for FY 2013 through FY 2016 Work Order Write Off Adjustment

			(a)		(b)		(0)	(p)	
			FY 2013		FY 2014	>	Vintage Capital Investment Year FY 2015	estment Ye FY 2016	t Year 016
_	Total Net Plant in Service (as previously filed)	<u> </u>	(8,929,918) \$	46	5,263,028	↔	40,613,665 \$	36,0	36,614,111
2	Total Net Plant in Service	↔	(9,820,822) \$	44	4,744,059	\$	40,319,425 \$	37,	37,144,770
8	Work Order Write Off Adjustment	<b>↔</b>	\$ (890,904)	44	(518,969)	<del>\$</del>	(294,240) \$		530,659
	Revenue Requirement Decrease due to Work Order Write Off Adjustment	djustn	<u>nent</u>						
							Revenue Requirement Year	ement \	/ear
	Vintage Capital Investment Year		FY 2013		FY 2014		FY 2015	FY 2016	016
4	FY 2013	<b>↔</b>	(47,076)	44	(123,944)	<b>↔</b>	(136,554) \$	$\odot$	(108,732)
5	FY 2014	\$	·	4	(19,800)	<b>↔</b>	(53,014) \$		(51,607)
9	FY 2015	↔	·	44	1	<b>↔</b>	(16,457) \$		(32,427)
7	FY 2016	<b>↔</b>	·	4	1	<b>↔</b>	·		29,263
$\infty$	TOTAL	<del>∽</del>	(47,076) \$	-22	(143,744)	<del>∽</del>	(206,024) \$	)	(163,503)
6	Total FY 2013 through FY 2016 revenue requirement impact						<del>\$</del>	•	(560,347)
_	Per Docket No. 4539								
2	Per FY 2013 through FY 2016 Total Net Plant in Service reflected in the vintage year revenue requirement calculations	ed in t	he vintage year	re	enue requirem	ent	calculations		
$\kappa$	Line 2 - Line 1								
4	Col (a) through Col (d) = Page 12 of 26, Line 39								
2	Col (a) through Col (d) = Page $10 \text{ of } 26$ , Line $39$								
9	Col (a) through Col (d) = Page 8 of 26, Line 39								1 4
7	Col (a) through Col (d) = Page 6 of 26, Line 40								.gc
∞	Sum of Lines 4 through 7								23
6	Line $8(a)$ + Line $8(b)$ + Line $8(c)$								01 2

The Narragansett Electric Company d/b/a National Grid RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 24 of 26

The Narragansett Electric Company
dha National Grid
FY 2018 Electric SR Revenue Requirement Reconciliation
Calculation of FY 2018 Net Deferred Tax Reserve Pervation

		CARCHARON OF F. ZOAO INCL. DEIGTER TAX RESETVE FTOTALION	ierred 1 ax Keserve 1/10	Itation						
Line		(e)	(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
No.	Deferred Tax Subject to Proration		Total	2018	2017	2016	2015	2014		2012
- (	Book Depreciation	Col (t) = Page 2 of 26, Line 16; Col (c) = Page 4 of 26, Line 16; Col (d) = Page 6 of 26, Line 19; Col (e) = Page 8 of 26, Line 19; Col (f) = Page 10 of 26, Line 19; Col (g) = Page 12 of 26, Line; Col (h) = Page 14 of 26, Line 13	\$6,767,472	\$992,555	\$2,122,861	\$1,479,463	\$2,062,926	\$578,263	(\$464,370)	(\$4,227)
2	Bonus Depreciation	Page 3 of 26, Line 12	(\$26,966,349)	(\$26,966,349)	80	O\$	80	80	80	<u></u>
3	Remaining MACRS Tax Depreciation	Col (b) = Page 3 of 26, Line 18; Col (c) = Page 5 of 26, Line 18; Col (d) = Line 18; Col (e) = Line 18; Col (f) = Page 11 of 26, Line 18; $Col$ (n) = Page 11 of 26, Line 18; $Col$ (n) = Page 11 of 26, Line 18;	(894)	(8)	(52) 15(5)	(\$1.876.746)	(\$1.814.760)	0.40 830)	0818	(\$1.427)
4 v	FY18 tax (gain)/loss on retirements Cumulative Book / Tax Timer	Page 30 (26, Line 19 Sum of Lines 1 through 4	(\$1,760,937) (\$29,065,708)	(\$1,760,937) (\$28,873,919)	\$0 (\$88,684)	\$0 (\$397,283)	\$0 \$248,166	\$335,430 \$0	\$0 \$0 (\$283,766)	\$0 \$0 (\$5,653)
9 1	Effective Tax Rate Deferred Tax Reserve	Line 5 * Line 6	35.00% (\$10,172,998)	35.00% (\$10,105,872)	35.00% (\$31,039)	35.00% (\$139,049)	35.00%	35.00% \$117,401	35.00% (\$99,318)	35.00%
∞ ≎	Deferred Tax Not Subject to Proration Capital Repairs Deduction Costs of Bosmoral	Page 3 of 26, Line 3 Dama 3 of 26, Line 30	(\$17,498,293)	(\$17,498,293)						
2 =	Book/Tax Depreciation Timing Difference at 3/31/2017 Cumulative Book/ Tax Timer	Line 8 + Line 10	\$0 \$0 (\$27,144,293)	\$0 \$0 (\$27,144,293)						
12	Effective Tax Rate Deferred Tax Reserve	Line 11 * Line 12	35.00% (\$9,500,503)	35.00% (\$9,500,503)						
4 ;	Total Deferred Tax Reserve	Line 7 + Line 13	(\$19,673,500)	(\$19,606,374)	(\$31,039)	(\$139,049)	\$86,858	\$117,401	(\$99,318)	(\$1,979)
15	Net Operaing Loss Net Deferred Tax Reserve	rage 2 of 26, Line 21 Line 14 + Line 15	\$0 (\$19,673,500)	\$0 (\$19,606,374)	(\$31,039)	(\$139,049)	\$86,858	\$117,401	(\$99,318)	(\$1,979)
17 18 19	Allocation of FY 2018 Estimated Federal NOL. Cumulative Book/Tax Timer Subject to Proration Cumulative Book/Tax Timer Not Subject to Proration Total Cumulative Book/Tax Timer	Col (b) = Line 5 Line 11 Line 17 + Line 18	(\$28,873,919) (\$27,144,293) (\$56,018,212)	(\$28,873,919) (\$27,144,293) (\$56,018,212)						
20 22 23	Total FY 2018 Federal NOL. Allocated FY 2018 Federal NOL Not Subject to Proration Allocated FY 2018 Federal NOL Subject to Proration Effective Tax Rute	(Page 2 of 26, Line 21) / 35% (Line 18 / Line 19) * Line 20 (Line 17 / Line 19) * Line 20	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$5,00%						
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	800 621 0130	\$0.000	(0501 050)	(0)/0 (0)/0	0 700	6	(016 009)	(000 14)
3	ivet Deterred i ax reserve subject to protauon	(i) (j) (j) (j)	(910,172,996)	(270,000,000)	(\$31,039)	(\$159,049)	0C0,00¢	10+,116	(\$95,316)	(6/6/16)
			(k)= Sum of (l)	€	1	(	3	į	1	3
26	Frorauon Calculation April 2017	Number of Days in Month  30 91.78%	(\$778,072)	(\$772,938)	(m) (\$2,374)	(n) (\$10,635)	(o) \$6,643	(p) \$8,979	(4) (\$7,596)	(f) (\$151)
27	May 2017		(\$706,071)	(\$701,412)	(\$2,154)	(\$9,651)	\$6,029	\$8,148	(\$6,893)	(\$137)
29	June 2017 July 2017		(\$564,392)	(\$560,668)	(\$1,342)	(\$7,714)	\$5,454 \$4,819	\$6,513	(\$5,213)	(\$124)
30	August 2017 Sentember 2017	31 58.08% 30 49.86%	(\$492,392)	(\$489,143)	(\$1,502)	(\$6,730)	\$4,204	\$5,682	(\$4,807)	(88)
32	October 2017		(\$350,713)	(\$348,399)	(\$1,070)	(\$4,794)	\$2,994	\$4,047	(\$3,424)	(\$9\$)
33	November 2017 December 2017	30 33.15% 31 24.66%	(\$281,035)	(\$279,180)	(\$857)	(\$3,841)	\$2,400	\$3,243	(\$2,744)	(\$55)
35	January 2018		(\$137,034)	(\$136,129)	(\$418)	(\$1,873)	\$1,170	\$1,581	(\$1,338)	(\$27)
36	February 2018 March 2018	28 8.49%	(\$72,001)	(\$71,526)	(\$220)	(\$984)	\$615	\$831	(\$703)	(\$14)
38	Total		(\$4,649,850)	(\$4,619,168)	(\$14,187)	(\$63,556)	\$39,701	\$53,661	(\$45,396)	(\$904)
39	Deferred Tax Without Proration Proration Adjustment	Line 25 Line 38 - Line 39	(\$10,172,998) \$5,523,148	(\$10,105,872) \$5,486,704	(\$31,039) \$16,852	(\$139,049) \$75,493	\$86,858 (\$47,157)	\$117,401 (\$63,739)	(\$99,318) \$53,922	(\$1,979)

Column Notes: (j) Sum of remaining days in the year (Col (i))  $\div$  365 (l) through (r) = Current Year Line 25  $\div$  12  $^*$  Current Month Col (j)

The Narragansett Electric Company
d/b/a National Grid
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## The Narragansett Electric Company d/b/a National Grid FY 2018 Electric ISR Revenue Requirement Reconciliation Excess Deferred Taxes

Line		Cumulative Book Tax Timing Difference at 3/31/17 (a)	Cumulative Book Tax Timing Difference at 3/31/18 (b)	Difference (c) = (b)-(a)	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%
	X7: X7	(4)	(0)	(e) (b) (u)	(a) (b) 15/0	(e) (a) : (a)	(1) (0) 11/0
<u>No.</u>	Vintage Year						
1	2012	(\$622,650)	(\$616,996)	\$5,653	\$4,240	(\$618,410)	(\$86,577)
2	2013	(\$5,323,191)	(\$5,039,425)	\$283,766	\$212,824	(\$5,110,367)	(\$715,451)
3	2014	\$6,655,614	\$6,320,184	(\$335,430)	(\$251,573)	\$6,404,042	\$896,566
4	2015	\$70,796,254	\$70,548,087	(\$248,166)	(\$186,125)	\$70,610,129	\$9,885,418
5	2016	\$60,218,631	\$60,467,565	\$248,935	\$186,701	\$60,405,332	\$8,456,746
6	2017	\$55,224,159	\$55,599,986	\$375,827	\$281,870	\$55,506,029	\$7,770,844
7	2018	\$0	\$51,662,644	\$51,662,644	\$38.746.983	\$38.746.983	\$5,424,578

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 RIPUC DOCKET NO. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Filing Attachment MAL-1 Page 26 of 26

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

Weighted Average Cost of Capit	al as approved in R.I.P.U	.C. DOCKET NO. 4003			
	(a)	(b)	(c)	(d)	(e)
	Ratio	Rate	Weighted Rate	Taxes	Return
Long Term Debt	52.08%	5.30%	2.76%		2.76%
Short Term Debt	4.98%	1.60%	0.08%		0.08%
Preferred Stock	0.19%	4.50%	0.01%		0.01%
Common Equity	42.75%	9.80%	4.19%	2.26%	6.45%
	100.00%	-	7.04%	2.26%	9.30%
		-			
Weighted Average Cost of Capit	al as approved in R.I.P.U	.C. Docket No. 4065 (Se	ttlement)		
	Ratio	Rate	Weighted Rate	Taxes	Return
Long Term Debt	46.05%	5.30%	2.44%		2.44%
Short Term Debt	4.98%	1.60%	0.08%		0.08%
Preferred Stock	0.19%	4.50%	0.01%		0.01%
Common Equity	48.78%	9.80%	4.78%	2.57%	7.35%
	100.00%	-	7.31%	2.57%	9.88%
		-			
Weighted Average Cost of Capit	al as approved in R.I.P.U	.C. Docket No. 4323			
•	Ratio	Rate	Weighted Rate	Taxes	Return
Long Term Debt	49.95%	4.96%	2.48%		2.48%
Short Term Debt	0.76%	0.79%	0.01%		0.01%
Preferred Stock	0.15%	4.50%	0.01%		0.01%
Common Equity	49.14%	9.50%	4.67%	2.51%	7.18%
	100.00%	-	7.17%	2.51%	9.68%
R.I.P.U.C. Docket No. 4065	Weighted Cost 9.88%	Apr 12 - Jan 13	Weighted Cost 8.23%		
R.I.P.U.C. Docket No. 4323	9.68%	Feb 13 - Mar 13	1.61%		
			9.84%		
Weighted Average Cost of Capit	al as approved in R.I.P.U	.C. Docket No. 4323 at 3	35% income tax rate		
	(a)	(b)	(c)	(d)	(e)
	Ratio	Rate	Weighted Rate	Taxes	Return
Long Term Debt	49.95%	4.96%	2.48%		2.48%
Short Term Debt	0.76%	0.700/	0.010/		0.01%
		0.79%	0.01%		
Preferred Stock	0.15%	0.79% 4.50%	0.01%		0.01%
Preferred Stock Common Equity	0.15% 49.14%			2.51%	0.01% 7.18%
		4.50%	0.01%	2.51% 2.51%	
	49.14%	4.50%	0.01% 4.67%		7.18%
	49.14% 100.00%	4.50%	0.01% 4.67%		7.18%
Common Equity	49.14% 100.00%	4.50%	0.01% 4.67%		7.18%
Common Equity	49.14% 100.00% by (1 - 35%)	4.50% 9.50%	0.01% 4.67% 7.17%		7.18%
Common Equity  (d) - Column (c) x 35% divided by the control of th	49.14% 100.00% by (1 - 35%)	4.50% 9.50%	0.01% 4.67% 7.17%		7.18%
Common Equity  (d) - Column (c) x 35% divided by the control of th	49.14% 100.00% by (1 - 35%) al as approved in R.I.P.U	4.50% 9.50% .C. Docket No. 4323 at 2	0.01% 4.67% 7.17%	2.51%	7.18% 9.68%
Common Equity  (d) - Column (c) x 35% divided by Weighted Average Cost of Capital	49.14% 100.00% by (1 - 35%) al as approved in R.I.P.U Ratio	4.50% 9.50% .C. Docket No. 4323 at 2 Rate	0.01% 4.67% 7.17% 21% income tax rate Weighted Rate	2.51%	7.18% 9.68% Return
Common Equity  (d) - Column (c) x 35% divided by Weighted Average Cost of Capit.  Long Term Debt Short Term Debt	49.14% 100.00% by (1 - 35%) al as approved in R.I.P.U Ratio 49.95% 0.76%	4.50% 9.50% .C. Docket No. 4323 at 2 Rate 4.96% 0.79%	0.01% 4.67% 7.17% 21% income tax rate Weighted Rate 2.48% 0.01%	2.51%	7.18% 9.68% Return 2.48% 0.01%
Common Equity  (d) - Column (c) x 35% divided by Weighted Average Cost of Capital Long Term Debt Short Term Debt Preferred Stock	49.14% 100.00% by (1 - 35%) al as approved in R.I.P.U Ratio 49.95%	4.50% 9.50% .C. Docket No. 4323 at 2 Rate 4.96%	0.01% 4.67% 7.17% 21% income tax rate Weighted Rate 2.48% 0.01% 0.01%	2.51%	7.18% 9.68% Return 2.48%
Common Equity  (d) - Column (c) x 35% divided by Weighted Average Cost of Capit.  Long Term Debt Short Term Debt	49.14% 100.00% by (1 - 35%) al as approved in R.I.P.U Ratio 49.95% 0.76% 0.15% 49.14%	4.50% 9.50% .C. Docket No. 4323 at 2 Rate 4.96% 0.79% 4.50%	0.01% 4.67% 7.17% 21% income tax rate Weighted Rate 2.48% 0.01% 4.67%	2.51% Taxes	7.18% 9.68% Return 2.48% 0.01% 0.01% 5.91%
Common Equity  (d) - Column (c) x 35% divided by Weighted Average Cost of Capital Long Term Debt Short Term Debt Preferred Stock	49.14% 100.00% by (1 - 35%) al as approved in R.I.P.U Ratio 49.95% 0.76% 0.15%	4.50% 9.50% .C. Docket No. 4323 at 2 Rate 4.96% 0.79% 4.50%	0.01% 4.67% 7.17% 21% income tax rate Weighted Rate 2.48% 0.01% 0.01%	2.51% Taxes	7.18% 9.68% Return 2.48% 0.01% 0.01%

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

55

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC DOCKET NO. 4682
FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN
ANNUAL RECONCILIATION FILING
WITNESS: ADAM S. CRARY

### PRE-FILED DIRECT TESTIMONY

**OF** 

**ADAM S. CRARY** 

August 1, 2018

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d/b/a NATIONAL GRID RIPUC DOCKET NO. 4682

### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

ANNUAL RECONCILIATION FILING WITNESS: ADAM S. CRARY

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1	1.	Introduction and Quantications
2	Q.	Please state your full name and business address.
3	A.	My name is Adam S. Crary, and my business address is 40 Sylvan Road, Waltham,
4		Massachusetts 02451.
5		
6	Q.	By whom are you employed and in what capacity?
7	A.	I am a Senior Analyst for Electric Pricing, New England in the Regulation and Pricing
8		Department of National Grid USA Service Company, Inc. This department provides
9		rate-related support to The Narragansett Electric Company d/b/a National Grid (the
10		Company or National Grid).
11		
12	Q.	Please describe your educational background and training.
13	A.	In 1995, I graduated from Berklee College of Music in Boston, MA with a Bachelor of
14		Music degree.
15		
16	Q.	Please describe your professional experience.
17	A.	For approximately eight years between 2000 and 2014, I was employed by Computer
18		Sciences Corporation as a Pricing Analyst for their Managed Hosting and Cloud
19		Computing business divisions. I began my employment as a Senior Pricing Analyst with
20		National Grid in June 2014.
21		

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

ANNUAL RECONCILIATION FILING WITNESS: ADAM S. CRARY

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1	Q.	Have you testified previously before knode Island Public Utilities Commission
2		(PUC)?
3	A.	Yes.
4		
5	II.	Purpose of Testimony
6	Q.	What is the purpose of your testimony?
7	A.	My testimony presents the proposed CapEx and O&M Reconciling Factors, as those
8		terms are defined in the Company's Infrastructure, Safety, and Reliability Provision,
9		RIPUC No. 2118 effective February 1, 2013 (ISR Provision), resulting from the
10		reconciliation of actual costs and revenue associated with the Fiscal Year (FY) 2018 ISR
11		Plan (ISR Plan or Plan). In support of the proposed factors, my testimony presents the
12		following:
13		• the results of the annual reconciliation of the actual FY 2018 capital investment
14		(CapEx) revenue requirement and the Operations and Maintenance (O&M)
15		expense to the actual revenue billed;
16		• the status of the FY 2016 CapEx and O&M reconciliations;
17		• the status of the FY 2017 CapEx and O&M reconciliations;
18		• the calculation of the proposed CapEx and O&M Reconciling Factors to be
19		effective October 1, 2018; and
20		• the typical bill impacts related to the proposed reconciling factors.
21		

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

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1	Q.	How is your testimony organized?
2	A.	My testimony is organized as follows:
3		• Section III presents the Summary of FY 2018 CapEx and O&M Reconciliations;
4		• Section IV presents the results of the FY 2018 CapEx Revenue and the Actual
5		CapEx Revenue Requirement Reconciliation, the calculation of the proposed
6		CapEx Reconciling Factors, and the status of the refunds of the FY 2016 and FY
7		2017 CapEx over-recovery reconciliation balances;
8		• Section V presents the results of the FY 2018 O&M Revenue and Expense
9		Reconciliation, the calculation of the proposed O&M Reconciling Factor, and the
10		status of the refunds of the FY 2016 O&M and FY 2017 O&M over-recovery
11		reconciliation balances; and
12		• Section VI presents the rate class bill impact analysis.
13		
14	III.	Summary of FY 2018 Capex and O&M Reconciliations
15	Q.	Please summarize the results of the FY 2018 CapEx and O&M reconciliations.
16	A.	A summary of the results of the FY 2018 CapEx and O&M reconciliations is presented in
17		Attachment ASC-1. Pursuant to the ISR Provision, the annual reconciliations compare
18		the actual revenue billed during the Plan year through the approved CapEx and O&M
19		Factors to the actual CapEx and O&M revenue requirement. The calculation of the
20		actual revenue requirement is presented in the testimony of Company Witness Melissa
21		Little. As reflected in Attachment ASC-1, the result of the CapEx reconciliation is an

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1 over-recovery of approximately \$3.8 million; the result of the O&M reconciliation is an 2 over-recovery of approximately \$49,500. 3 4 Q. Please briefly summarize the operation of the tariff provision that enables the 5 Company to recover certain costs through the ISR Plan. 6 A. In accordance with the ISR Provision, the Company is allowed to recover the revenue 7 requirement related to capital investments through CapEx Factors and to recover certain 8 expenditures for Inspection and Maintenance (I&M) and Vegetation Management (VM) 9 activities through O&M Factors. 10 11 In the ISR Plan filing for the upcoming year, the Company determines the CapEx 12 Factors, which are designed to recover the revenue requirement on the forecasted capital 13 investment for the ISR Plan's investment year plus cumulative capital investment in prior 14 years' ISR Plans, and determines the O&M Factors based on the forecasted O&M 15 expense for the Plan year. On an annual basis, the Company is required to reconcile the 16 actual annual CapEx revenue requirement on cumulative ISR capital investment and the 17 actual O&M expense incurred to actual billed revenue generated from the CapEx Factors 18 and the O&M Factors. The over or under-recovered balances resulting from the CapEx 19 and O&M reconciliations are either credited to or recovered from customers through the 20 CapEx Reconciling Factors and the O&M Reconciling Factor, respectively.

21

### THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

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### IV. <u>Capex Reconciliation and Proposed Capex Reconciling Factors</u>

### 2 Q. What is the result of the CapEx reconciliation for FY 2018?

- 3 A. The FY 2018 CapEx reconciliation by rate class is presented in Attachment ASC-2, page
- 1. Line (5) represents the CapEx revenue billed during the period April 1, 2017 through
- 5 March 31, 2018 of approximately \$16.5 million. Line (4) reflects the actual CapEx
- 6 revenue requirement of approximately \$12.7 million. Line (6) identifies the over-
- 7 recovery by rate class of the CapEx revenue requirement, which totals approximately
- 8 \$3.8 million.

1

9

### 10 O. Why has the Company prepared the CapEx reconciliation by rate class?

- 11 A. The ISR Provision requires that the CapEx Reconciling Factors be calculated as class-
- specific per-kWh factors designed to recover or credit the under- or over-recovery of the
- actual Cumulative Revenue Requirement, as allocated to each rate class by the Rate Base
- Allocator, for the prior fiscal year. The Rate Base Allocator is the percentage of total rate
- base allocated to each rate class determined in the most recently-approved allocated cost
- of service study. Page 1, Line (4) of Attachment ASC-2 shows the allocation of the
- actual CapEx revenue requirement to each rate class based upon the Rate Base Allocator
- approved in the Company's 2012 general rate case in Docket No. 4323.

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### THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

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I	Q.	Does the Company anticipate making any updates to the proposed Cap Ex
2		Reconciling Factors subsequent to this initial filing?
3	A.	The Company currently has a settlement agreement pending PUC approval in its general
4		rate case in Docket No. 4770. Part of the settlement agreement is a proposal is to
5		eliminate rate class G-62. If that proposal is approved, the Company will make a
6		supplemental filing in this proceeding to revise the proposed Cap Ex Reconciling Factors
7		to reflect the elimination of rate class G-62. The Company will also update the Rate Base
8		Allocator from that approved in Docket No. 4323 to that approved in Docket No. 4770.
9		
10	Q.	Please describe the results of the rate class reconciliation.
11	A.	As shown in Attachment ASC-2, page 1, the allocated actual FY 2018 revenue
12		requirement on cumulative capital investment (Line (4)) is subtracted from the CapEx
13		Factor revenue billed for each rate class (Line (5)), resulting in the over-recovery of
14		approximately \$3.8 million (Line (6)). The detail of the CapEx revenue billed for each
15		rate class is provided in Attachment ASC-2, page 2.
16		
17	Q.	Please describe the amount included on Line (7) of Attachment ASC-2.
18	A.	The amounts presented on Line (7) reflect the final balance of the over-recovery resulting
19		from the FY 2016 CapEx reconciliation. The net refund of the FY 2016 CapEx
20		reconciliation balance is presented on page 3. Of the net \$306,323 over-recovery for FY
21		2016 to be credited to customers via CapEx Reconciling Factors approved by the PUC,

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1		the Company refunded \$280,324 from October 1, 2016 through September 30, 2017.
2		The remaining balance is a net over-recovery amount of \$26,089, as shown on Line (7),
3		Column (a). As described in Docket No. 4539, the Company is including each rate class
4		residual balance associated with the net over-recovery of the FY 2016 deferral as an
5		adjustment to the FY 2018 CapEx reconciliation balance, to ensure the Company does
6		not over-credit or under-credit customers any amounts associated with the FY 2016 Plan
7		
8	Q.	How is the Company proposing to credit the FY 2018 CapEx over-recovery?
9	A.	The Company is proposing to implement a CapEx Reconciling Factor for each rate class
10		that is consistent with the results of the rate class reconciliation. The calculation of the
11		proposed CapEx Reconciling Factors is presented in Attachment ASC-2, page 1. The
12		over-recovery by rate class on Line (8) is divided by each rate class' forecasted kWh
13		deliveries for the period October 1, 2018 through September 30, 2019 on Line (9). The
14		class-specific CapEx Reconciling Factors are shown on Line (10).
15		
16	Q.	Is the Company providing the status of the net over-recovery from the FY 2017
17		CapEx reconciliation?
18	A.	Yes. The status of the FY 2017 CapEx reconciliation net over-recovery balance is
19		presented in Attachment ASC-2, page 4. As of June 30, 2018, the balance reflects a
20		remaining net over-recovery of approximately \$2.4 million, which the Company will
21		continue to credit customers through September 30, 2018.

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

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1	Q.	How will the Company propose to credit or recover any residual balances as of
2		September 30, 2018?
3	A.	Pursuant to the ISR Provision, the amount approved for recovery or refund through the
4		CapEx Reconciling Factors is subject to reconciliation. Therefore, the Company will
5		present the final reconciliation of balances from the FY 2017 CapEx reconciliation in the
6		FY 2019 ISR Plan Reconciliation Filing and include each rate class' residual balance
7		from the FY 2017 CapEx reconciliation with the balances resulting from the FY 2019
8		CapEx reconciliation, and will propose CapEx Reconciling Factors on the total.
9		
10	V.	O&M Reconciliation and Proposed O&M Reconciling Factor
11	Q.	What is the result of the O&M reconciliation for FY 2018?
12	A.	The O&M reconciliation for FY 2018 is presented in Attachment ASC-3, page 1. Line
13		(1) shows the actual O&M expense for FY 2018 of approximately \$10.04 million, which
14		is supported in the testimony of Company Witnesses Mr. Prabhjot S. Anand and Ms.
15		Little. Line (2) shows O&M revenue billed through the O&M Factors from April 1, 2017
16		through March 31, 2018 of approximately \$10.09 million. Line (3) shows the difference
17		of approximately \$49,500, representing an over-recovery of actual O&M expense.
18		
19	Q.	Please describe the amount included on Line (4).
20	A.	The amount presented on Line (4) reflects the remaining balance of the over-recovery
21		resulting from FY 2016 O&M reconciliation. The crediting to customers of the over-

d/b/a NATIONAL GRID

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

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1		recovery is presented on page 3. Of the \$1,753,429 over-recovery that formed the basis
2		for the O&M Reconciling Factor approved by the PUC, the Company credited customers
3		\$1,601,971 from October 1, 2016 through September 30, 2017, leaving \$151,458 to be
4		credited to customers. As described in Docket No. 4539, the Company is including the
5		residual balance with the FY 2018 O&M reconciliation balance.
6		
7	Q.	Is the Company providing the O&M Factor revenue?
8	A.	Yes. Attachment ASC-3, page 2 presents the O&M Factor revenue billed by month.
9		
10	Q.	What is the proposed O&M Reconciling Factor?
11	A.	The proposed O&M Reconciling Factor is calculated on Attachment ASC-3, page 1. The
12		total over-recovery of \$200,962 on Line (5) is divided by the forecasted kWhs during the
13		refund period, October 1, 2018 through September 30, 2019, on Line (6), resulting in a
14		credit of 0.002¢ per kWh on Line (7).
15		
16	Q.	Why is the Company proposing a uniform per kWh O&M Reconciling Factor?
17	A.	Pursuant to the ISR Provision, the O&M Reconciling Factor is a uniform per-kWh factor,
18		which is designed to recover or refund the under- or over-recovery of actual I&M and
19		VM expense for the prior fiscal year, based on forecasted kWhs during the recovery or
20		refund period beginning October 1.

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### FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN

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1	Q.	Is the Company providing the status of the over-recovery of the FY 2017 O&M
2		reconciliation?
3	A.	Yes. The status of the balance from the FY 2017 O&M reconciliation is presented in
4		Attachment ASC-3, page 4. As of June 30, 2018, there is a remaining over-recovery
5		balance of \$61,189, which the Company will continue to credit customers through
6		September 30, 2018.
7		
8	Q.	How does the Company propose to credit or recover the residual balance at
9		September 30, 2018?
10	A.	Pursuant to the ISR Provision, the amount approved for recovery or refund through the
11		O&M Reconciling Factor is subject to reconciliation. Therefore, the Company will
12		present the final reconciliation of the balance from the FY 2017 O&M reconciliation in
13		the FY 2019 ISR Reconciliation Filing and include the residual balance of the FY 2017
14		O&M reconciliation with the results of the FY 2019 O&M reconciliation, and will
15		propose an O&M Reconciling Factor on the total.
16		
17	VI.	Typical Bill Analysis
18	Q.	Is the Company providing a typical bill analysis to illustrate the impact of the
19		proposed rates on each of the Company's rate classes?
20	A.	Yes. The typical bill analysis illustrating the monthly bill impact of the proposed rate
21		changes for each rate class is provided in Attachment ASC-4. The impact of the

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FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

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1		proposed CapEx Reconciling Factor and the proposed O&M Reconciling Factor on a
2		typical residential customer receiving Standard Offer Service and using 500 kWhs per
3		month is an increase of \$0.34, or approximately 0.3%, from \$99.63 to \$99.97.
4		
5	VII.	Summary of Retail Delivery Rates
6	Q.	Is the Company providing a proposed Summary of Retail Delivery Rates, Tariff No.
7		2095, reflecting the reconciling factors proposed in this filing?
8	A.	No, not at this time. The Company currently has proposed rate changes for effect
9		September 1, 2018 pending approval in its general rate case in Docket No. 4770. In
10		addition, concurrent with this filing, the Company is submitting its Pension and Post-
11		retirement Benefits Other than Pension (PBOP) Adjustment Factor (PAF) filing in which
12		the Company will propose a PAF, effective October 1, 2018. The Company has also
13		submitted a Renewable Energy (RE) Growth Factor Filing with proposed factors also
14		effective October 1, 2018. The Company will file a Summary of Retail Delivery Rates
15		tariff reflecting all rates proposed for October 1, 2018 in compliance with the PUC's
16		orders in this proceeding, and the PAF and the RE Growth proceedings.
17		
18	VIII.	Conclusion
19	Q.	Does this conclude your testimony?
20	A.	Yes.

# THE NARRAGANSETT ELECTRIC COMPANY d/b/a NATIONAL GRID RIPUC DOCKET NO. 4682 FY 2018 ELECTRIC INFRASTRUCTURE, SAFETY, AND RELIABILITY PLAN ANNUAL RECONCILIATION FILING

WITNESS: ADAM S. CRARY ATTACHMENTS

### **List of Attachments**

Attachment ASC-1	FY2018 ISR Plan Annual Reconciliation Summary
Attachment ASC-2	CapEx Reconciliations and Proposed CapEx Reconciling Factors
Attachment ASC-3	O&M Reconciliations and Proposed O&M Reconciling Factor
Attachment ASC-4	Typical Bill Analysis

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4682
FY 2018 Electric Infrastructure, Safety and Reliability Plan
Annual Reconciliation Filing
Witness: Adam S. Crary

### Attachment ASC-1

FY2018 ISR Plan Annual Reconciliation Summary

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-1 Page 1 of 1

### FY 2018 ISR Plan Annual Reconciliation Summary

		<u>CapEx</u> (a)	<u>O&amp;M</u> (b)	Total (c)
(1)	Actual Revenue Requirement	\$12,681,344	\$10,036,295	\$22,717,639
(2)	Revenue Billed	\$16,451,151	\$10,085,799	\$26,536,950
(3)	Total Over Recovery	\$3,769,807	\$49,504	\$3,819,311

- (1) Column (a) per RIPUC Docket No. 4682, Attachment MAL-1, Page 1 of 26, Column (a), Line (18) Column (a) per RIPUC Docket No. 4682, Attachment MAL-1, Page 1 of 26, Column (a), Line (4) Column (c) sum of columns (a) and (b)
- (2) Column (a) per Attachment ASC-2, page 1, Line (5); Column (b) per Attachment ASC-3, page 1, Line (2)
- (3) Line (2) Line (1)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4682
FY 2018 Electric Infrastructure, Safety and Reliability Plan
Annual Reconciliation Filing
Witness: Adam S. Crary

### Attachment ASC-2

CapEx Reconciliations and Proposed CapEx Reconciling Factors

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 Y 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-2 Page 1 of 4

For the Recovery (Refund) Period October 1, 2018 through September 30, 2019 Proposed CapEx Reconciling Factors For Fiscal Year 2018 ISR Plan

		<u>Total</u> (a)	Residential $A-16/A-60$ (b)	Small C&I $\frac{C-06}{(c)}$	General C&I $\frac{G-02}{(d)}$	200 kW Demand B-32 / G-32 (e)	5000 kW Demand <u>B-62 / G-62</u> (f)	Lighting S-05/ S-06/ S-10 / S-14 (g)	Propulsion $\frac{X-01}{(h)}$
(1)	(1) Actual FY2018 Capital Investment Revenue Requirement	\$12,681,344							
(2)	Total Rate Base (\$000s)	\$561,738	\$296,490	\$54,542	\$82,460	\$77,651	\$19,545	\$29,286	\$1,764
(3)	Rate Base as Percentage of Total	100.00%	52.78%	9.71%	14.68%	13.82%	3.48%	5.21%	0.31%
(4)	Allocated Actual FY2018 Capital Investment Revenue Requirement	\$12,681,344	\$6,693,313	\$1,231,298	\$1,861,551	\$1,752,990	\$441,234	\$661,145	\$39,814
(5)	CapEx Revenue Billed	\$16,451,151	\$8,663,360	\$1,615,272	\$2,406,993	\$2,337,392	\$521,824	\$853,197	\$53,114
(9)	Total Over (Under) Recovery for FY 2018	\$3,769,807	\$1,970,047	\$383,974	\$545,442	\$584,402	\$80,590	\$192,052	\$13,300
(7)	Remaining Over (Under) For FY 2016	\$26,089	\$7,101	\$3,533	\$5,753	\$15,634	(\$14,412)	\$8,349	\$132
(8)	Total Over (Under) Recovery	\$3,795,896	\$1,977,149	\$387,506	\$551,194	\$600,036	\$66,178	\$200,401	\$13,432
(6)	Forecasted kWhs - October 1, 2018 through September 30, 2019	7,269,805,668	2,941,292,999	598,539,005	1,289,840,620	1,950,296,127	419,617,985	46,271,538	23,947,394
(10)	(10) Proposed Class-specific CapEx Reconciling Factor (Charge) per kWh		(\$0.00067)	(\$0.00064)	(\$0.00042)	(\$0.00030)	(\$0.00015)	(\$0.00433)	(\$0.00056)
									F

Column (a) per RIPUC Docket No. 4682, Attachment MAL-1, Page 1 of 26, Column (a), Line (18) per RIPUC 4323, Compliance Attachment 3A, (Schedule HSG-1), page 2, Line (10) 

Line (2) ÷ Line (2) Total Column Line (1) Total Column x Line (3)

Line (5) - Line (4) per Page 2

per Column (a), Line (6)

Line (6) + Line (7)

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-2 Page 2 of 4

Fiscal Year 2018 CapEx Reconciliation
For the Period April 1, 2017 through March 31, 2018
For the Recovery/Refund Period October 1, 2018 through September 30, 2019

CapEx Revenue By Rate Class:

	Base Revenue (c)	(\$6,788) \$184,148 \$202,860 \$210,943 \$212,749 \$19,648 \$207,861 \$189,137 \$182,693 \$201,726 \$178,536 \$178,536	\$2,337,392	And Renability Pla
200 kW Demand B-32 / G-32	CapEx Rec Factor Revenue (b)	(\$6,771) (\$15,259) (\$16,224) (\$17,703) (\$17,703) (\$17,804) (\$16,829) (\$71,349) (\$77,349) (\$78,074) (\$78,074) (\$74,7740) (\$77,740) (\$74,675)	(\$572,716)	
7	Total Revenue (a)	(\$13.559) \$168.889 \$186.636 \$193.240 \$194.945 \$17.410 \$10.730 \$10.730 \$10.730 \$10.730 \$10.730 \$10.730 \$10.730	\$1,764,676	
	Base <u>Re venue</u> (c)	\$81,296 \$190,111 \$211,978 \$217,561 \$210,235 \$199,893 \$180,330 \$184,827 \$111,557	\$2,406,993	Base (c) (c) (x) (x) (x) (y) (y) (y) (y) (y) (y) (y) (y) (y) (y
General C&I G-02	CapEx Rec Factor Revenue (b)	(\$2,581) (\$5,734) (\$6,314) (\$7,308) (\$7,225) (\$6,957) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (\$100,515) (	(\$649,442) Propulsion X-01	CapEx Rec Factor (b) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
	Total <u>Revenue</u> (a)	\$78,715 \$184,377 \$205,664 \$210,253 \$211,386 \$202,483 \$161,435 \$99,378 \$84,719 \$84,719 \$87,057 \$54,056	\$1,757,551	Total  (a)  (b)  (c)  (c)  (c)  (d)  (e)  (e)  (e)  (e)  (e)  (e)  (e
	Base Revenue (c)	\$55,684 \$115,226 \$123,844 \$148,941 \$148,674 \$125,517 \$123,869 \$123,869 \$124,776 \$157,833 \$157,833 \$157,7021	\$1,615,272	Base (c) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S
Small C&I C-06	CapEx Rec Factor Revenue (b)	(\$624) (\$1.374) (\$1.548) (\$1.689) (\$1.678) (\$1.678) (\$1.581) (\$24.52) (\$55.229) (\$55.229) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.174) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.178) (\$56.1	i (\$372,806) Lighting S-05, S-06, S-10, S-14	CapEx Rec Factor (b) (c) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
	Total Revenue (a)	\$55,060 \$113,882 \$122,296 \$147,251 \$146,996 \$137,955 \$100,995 \$68,640 \$88,640 \$88,640 \$88,640 \$72,795 \$72,795 \$42,948	\$1,242,466	Total  Revenue (a)  \$13.347 \$ \$13.347 \$ \$49.240) \$143.578 \$60.148 \$45.549 \$41.340 \$59.991 \$57.760 \$62.986 \$121.244 \$43.101 \$24.760
	Base Revenue (c)	\$282,533 \$567,782 \$646,798 \$86,176 \$901,194 \$764,422 \$640,422 \$640,420 \$674,607 \$888,136 \$738,73,279	\$8,663,360	Base (c) \$17,578 \$17,578 \$37,023 \$48,551 \$46,710 \$47,190 \$47,190 \$46,350 \$50,943 \$42,944 \$33,467 \$51,846,350 \$51,944 \$33,467 \$51,064
Residential A-16 / A-60	CapEx Rec Factor Revenue (b)	(\$74) (\$1,971) (\$2,246) (\$3,077) (\$3,129) (\$2,668) (\$177,027) (\$298,022) (\$316,249) (\$416,271) (\$346,278) (\$306,979) (\$174,975)	(\$1,999,846) 5000 kW Demand B-62 / G-62	CapEx Rec Factor (b) \$1,919 \$3.851 \$4,336 \$4,773 \$5.102 \$4,944 (\$3.494 (\$3.499) (\$11,999) (\$11,991) (\$11,601) (\$11,601) (\$11,601) (\$11,601) (\$11,601) (\$11,601) (\$11,601) (\$11,601) (\$11,601) (\$11,601) (\$11,601) (\$11,601)
	Total Revenue (a)	\$281,559 \$565,812 \$644,553 \$883,099 \$898,065 \$713,396 \$342,218 \$372,218 \$371,864 \$347,977 \$198,305	\$6,663,514	Total (a) (b) (c) (c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
	Month	Apr-17 May-17 Jun-17 Jul-17 Aug-17 Oct-17 Nov-17 Dec-17 Jan-18 Rat-18 Apr-18	Total	Month Apr-17 May-17 Jul-17 Aug-17 Sep-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Apr-18 Total
		(1) (2) (3) (4) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3

<sup>(1)</sup> Reflects revenue associated with consumption on and after April 1 (13) Reflects revenue associated with consumption prior to April 1

from monthly revenue reports per Page 3 and Page 4 Column (a) - Column (b) © @ ©

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-2 Page 3 of 4

Fiscal Year 2016 CapEx Reconciliation of Over Recovery For the Period April 1, 2015 through March 31, 2016 For the Recovery Period October 1, 2016 through September 30, 2017

	_	Total	Residential A-16 / A-60		Small C&I C-06		General C&I G-02		200 kW Demand B-32 / G-32	
		(a)	(b)	(c)	(b)	(c)	(b)	(c)	(b)	(c)
(1)	Beginning Over(Under) Recovery	\$306,323		\$36,730		\$21,445		\$82,339		\$210,381
(2)	CapEx Reconciling Factors			(\$0.00001)		(\$0.00003)		(\$0.00006)		(\$0.00010)
				CapEx Reconciling		CapEx Reconciling		CapEx Reconciling		CapEx Reconciling
			kWhs	Factor Revenue	kWhs	Factor Revenue	kWhs	Factor Revenue	kWhs	Factor Revenue
(3)	Oct-16	(\$9,794)	95,473,615	(\$955)	19,647,685	(\$589)	45,046,273	(\$2,703)	69,226,706	(\$6,923)
(4)	Nov-16	(\$21,907)	206,273,900	(\$2,063)	41,891,243	(\$1,257)	96,570,758	(\$5,794)	154,652,793	(\$15,465)
(5)	Dec-16	(\$22,619)	238,467,830	(\$2,385)	45,270,239	(\$1,358)	99,457,256	(\$5,967)	157,570,354	(\$15,757)
(6)	Jan-17	(\$24,447)	273,001,763	(\$2,730)	52,071,331	(\$1,562)	107,697,512	(\$6,462)	163,683,007	(\$16,368)
(7)	Feb-17	(\$22,485)	251,907,544	(\$2,519)	50,739,090	(\$1,522)	101,923,880	(\$6,115)	152,903,424	(\$15,290)
(8)	Mar-17	(\$22,722)	234,127,726	(\$2,341)	49,350,049	(\$1,481)	103,684,327	(\$6,221)	157,278,833	(\$15,728)
(9)	Apr-17	(\$22,294)	229,957,624	(\$2,300)	49,091,325	(\$1,473)	101,534,869	(\$6,092)	159,809,235	(\$15,981)
(10)	May-17	(\$19,173)	197,051,306	(\$1,971)	45,798,429	(\$1,374)	95,569,388	(\$5,734)	152,590,449	(\$15,259)
(11)	Jun-17	(\$24,894)	224,582,709	(\$2,246)	51,611,634	(\$1,548)	105,225,996	(\$6,314)	162,235,622	(\$16,224)
(12)	Jul-17	(\$26,693)	307,702,465	(\$3,077)	56,312,799	(\$1,689)	121,798,204	(\$7,308)	177,028,615	(\$17,703)
(13)	Aug-17	(\$26,005)	312,917,236	(\$3,129)	55,930,004	(\$1,678)	120,414,340	(\$7,225)	178,042,241	(\$17,804)
(14)	Sep-17	(\$24,057)	266,799,874	(\$2,668)	52,705,602	(\$1,581)	115,953,161	(\$6,957)	166,293,817	(\$16,629)
(15)	Oct-17	(\$13,144)	124,619,616	(\$1,246)	26,663,066	(\$800)	61,563,025	(\$3,694)	96,154,070	(\$9,615)
(16)	Total	(\$280,234)		(\$29,629)		(\$17,912)		(\$76,586)		(\$194,747)
(17)	Ending Over(Under) Recovery	\$26,089		\$7,101		\$3,533		\$5,753		\$15,634

		5000 kV	V Demand	Li	ghting	Propulsion		
		B-62	/ G-62	S-05/ S-06	5/ S-10 / S-14	X-01		
		(b)	(b) (c)		(c)	(b)	(c)	
(1)	Beginning Over(Under) Recovery		(\$70,276)		\$25,572		\$132	
(2)	CapEx Reconciling Factors		\$0.00013		(\$0.00039)		\$0.00000	
			CapEx Reconciling		CapEx Reconciling		CapEx Reconciling	
		kWhs	Factor Revenue	kWhs	Factor Revenue	kWhs	Factor Revenue	
(3)	Oct-16	15,858,307	\$2,062	1,758,847	(\$686)	832,892	\$0	
(4)	Nov-16	33,362,351	\$4,337	4,268,515	(\$1,665)	1,890,091	\$0	
(5)	Dec-16	35,801,268	\$4,654	4,630,537	(\$1,806)	2,119,277	\$0	
(6)	Jan-17	35,885,141	\$4,665	5,101,139	(\$1,989)	1,829,122	\$0	
(7)	Feb-17	35,365,105	\$4,597	4,193,967	(\$1,636)	1,943,050	\$0	
(8)	Mar-17	34,687,874	\$4,509	3,744,260	(\$1,460)	1,804,590	\$0	
(9)	Apr-17	34,848,293	\$4,530	2,510,705	(\$979)	2,203,445	\$0	
(10)	May-17	29,619,450	\$3,851	(3,369,134)	\$1,314	2,096,059	\$0	
(11)	Jun-17	37,972,397	\$4,936	8,972,493	(\$3,499)	1,982,779	\$0	
(12)	Jul-17	36,718,921	\$4,773	4,331,961	(\$1,689)	2,012,947	\$0	
(13)	Aug-17	39,249,804	\$5,102	3,259,913	(\$1,271)	2,073,479	\$0	
(14)	Sep-17	38,034,526	\$4,944	2,989,350	(\$1,166)	2,054,627	\$0	
(15)	Oct-17	22,317,058	\$2,901	1,769,668	(\$690)	1,086,998	\$0	
(16)	Total	429,720,495	\$55,864	44,162,221	(\$17,223)	23,929,356	\$0	
(17)	Ending Over(Under) Recovery		(\$14,412)		\$8,349		\$132	

<sup>(1)</sup> per RIPUC Docket No. 4539, Attachment ASC-2, page 1, line (8)
(2) per RIPUC Docket No. 4539, Attachment ASC-2, page 1, line (10)
(3) prorated for usage on and after October 1, 2016

<sup>(15)</sup> prorated for usage prior to October 1, 2017 (16) sum of kWhs & revenue (17) Line -1 + Line -16

<sup>(</sup>a) sum of Column (b) from each rate

<sup>(</sup>b) from Company revenue report (c) Column (b) x CapEx Reconciling Factor

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-2 Page 4 of 4

Fiscal Year 2017 CapEx Reconciliation of Over Recovery For the Period April 1, 2016 through March 31, 2017
For the Recovery Period October 1, 2017 through September 30, 2018

Line No.		Total		dential / A-60	Small C&I C-06		General C&I G-02		200 kW Demand B-32 / G-32	
		(a)	(b)	(c)	(b)	(c)	(b)	(c)	(b)	(c)
(1)	Beginning Over(Under) Recovery	\$7,300,262	( )	\$4,068,851	.,,	\$712,749	( )	\$1,259,041	( )	\$981,324
(2)	CapEx Reconciling Factors			(\$0.00135)		(\$0.00119)		(\$0.00098)		(\$0.00050)
				CapEx Reconciling		CapEx Reconciling		CapEx Reconciling		CapEx Reconciling
			kWhs	Factor Revenue	kWhs	Factor Revenue	kWhs	Factor Revenue	kWhs	Factor Revenue
(3)	Oct-17	(\$239,728)	93,170,695	(\$125,780)	19,934,393	(\$23,722)	46,027,022	(\$45,106)	71,888,694	(\$35,944)
(4)	Nov-17	(\$554,029)	220,757,188	(\$298,022)	46,410,703	(\$55,229)	102,566,639	(\$100,515)	154,697,974	(\$77,349)
(5)	Dec-17	(\$566,733)	234,258,554	(\$316,249)	47,204,661	(\$56,174)	97,766,022	(\$95,811)	156,147,641	(\$78,074)
(6)	Jan-18	(\$721,140)	308,349,251	(\$416,271)	59,473,796	(\$70,774)	114,009,381	(\$111,729)	169,594,910	(\$84,797)
(7)	Feb-18	(\$611,995)	256,487,509	(\$346,258)	53,603,746	(\$63,788)	102,265,595	(\$100,220)	148,261,655	(\$74,131)
(8)	Mar-18	(\$563,396)	227,392,076	(\$306,979)	50,212,182	(\$59,752)	100,761,788	(\$98,747)	155,480,615	(\$77,740)
(9)	Apr-18	(\$551,829)	220,614,246	(\$297,829)	48,735,673	(\$57,995)	99,871,348	(\$97,874)	152,085,185	(\$76,043)
(10)	May-18	(\$538,923)	212,573,817	(\$286,975)	48,019,444	(\$57,143)	101,169,485	(\$99,146)	153,316,410	(\$76,658)
(11)	Jun-18	(\$550,477)	212,923,032	(\$287,446)	48,476,817	(\$57,687)	106,468,903	(\$104,340)	162,967,927	(\$81,484)
(12)	Jul-18	\$0	-	\$0	-	\$0	-	\$0		\$0
(13)	Aug-18	\$0	-	\$0	-	\$0	-	\$0		\$0
(14)	Sep-18	\$0	-	\$0	-	\$0	-	\$0		\$0
(15)	Total	(\$4,898,250)		(\$2,681,811)		(\$502,265)		(\$853,488)		(\$662,221)
(16)	Ending Over(Under) Recovery	\$2,402,012		\$1,387,040		\$210,484		\$405,553		\$319,103

			V Demand / G-62		ghting 6/ S-10 / S-14		oulsion (-01
		(b)	(c)	(b)	(c)	(b)	(c)
(1)	Beginning Over(Under) Recovery		\$162,555	, ,	\$91,086		\$24,656
(2)	CapEx Reconciling Factors		(\$0.00038)		(\$0.00151)		(\$0.00103)
			CapEx Reconciling		CapEx Reconciling		CapEx Reconciling
		kWhs	Factor Revenue	kWhs	Factor Revenue	kWhs	Factor Revenue
(3)	Oct-17	16,685,140	(\$6,340)	1,323,076	(\$1,998)	812,684	(\$837)
(4)	Nov-17	36,838,671	(\$13,999)	4,484,913	(\$6,772)	2,080,524	(\$2,143)
(5)	Dec-17	28,798,003	(\$10,943)	4,881,579	(\$7,371)	2,049,985	(\$2,111)
(6)	Jan-18	41,327,869	(\$15,705)	13,202,486	(\$19,936)	1,871,652	(\$1,928)
(7)	Feb-18	30,687,841	(\$11,661)	9,213,221	(\$13,912)	1,964,976	(\$2,024)
(8)	Mar-18	34,479,589	(\$13,102)	3,391,718	(\$5,121)	1,896,605	(\$1,954)
(9)	Apr-18	40,481,431	(\$15,383)	3,315,812	(\$5,007)	1,648,197	(\$1,698)
(10)	May-18	33,470,583	(\$12,719)	2,726,776	(\$4,117)	2,101,865	(\$2,165)
(11)	Jun-18	34,940,102	(\$13,277)	2,729,968	(\$4,122)	2,058,609	(\$2,120)
(12)	Jul-18	-	\$0		\$0	-	\$0
(13)	Aug-18	-	\$0		\$0	-	\$0
(14)	Sep-18		\$0	· -	\$0	٠.	\$0_
(15)	Total	297,709,229	(\$113,130)	45,269,549	(\$68,357)	16,485,097	(\$16,980)
(16)	Ending Over(Under) Recovery		\$49,425		\$22,729		\$7,676

<sup>(1)</sup> per RIPUC. Docket No. 4592, Attachment ASC-2 page 1, line (8)

<sup>(2)</sup> per RPUC. Docket No. 4592, Attachment ASC-2 page 1, line (10)
(3) prorated for usage on and after October. 1, 2017
(14) prorated for usage prior to October 1, 2018

<sup>(15)</sup> sum of kWhs & revenue (16) Line -1 + Line -15

<sup>(</sup>a) sum of Column (b) from each rate

<sup>(</sup>b) from Company revenue report

<sup>(</sup>c) Column (b) x CapEx Reconciling Factor

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4682
FY 2018 Electric Infrastructure, Safety and Reliability Plan
Annual Reconciliation Filing
Witness: Adam S. Crary

## Attachment ASC-3

O&M Reconciliations and Proposed O&M Reconciling Factor

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-3 Page 1 of 4

Fiscal Year 2018 Operation & Maintenance Reconciliation and Proposed Factor
Reconciliation of O&M Revenue and Actual O&M Revenue Requirement
For Fiscal Year 2018 ISR Plan
For the Recovery (Refund) Period October 1, 2018 through September 30, 2019

(1)	Actual FY 2018 O&M Revenue Requirement	\$10,036,295
(2)	O&M Revenue Billed	\$10,085,799
(3)	Total Over (Under) Recovery for FY 2018	\$49,504
(4)	Remaining Over (Under) For FY 2016	\$151,458
(5)	Total Over (Under) Recovery	\$200,962
(6)	Forecasted kWhs - October 1, 2018 through September 30, 2019	7,269,805,668
(7)	Proposed O&M Reconciling Factor (Credit) per kWh	(\$0.00002)

- (1) per RIPUC Docket No. 4682, Attachment MAL-1, Page 1 of 26, Column (a), Line (4)
- (2) per Page 2
- (3) Line (2) Line (1)
- (4) per Page 3 Line (4)
- (5) Line (3) + Line (4)
- (6) per Company forecast
- (7) [Line (5) ÷ Line (6)], truncated to 5 decimal places

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4682
FY 2018 Electric Infrastructure, Safety,
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Attachment ASC-3
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Fiscal Year 2018 Operations & Maintenance Reconciliation
For the Period April 1, 2017 through March 31, 2018
For the Recovery/Refund Period October 1, 2018 through September 30, 2019

## **O&M Factor Revenue:**

Line No.	<u>Month</u>	O&M <u>Revenue</u> (a)	Prior Period Reconciliation Factor Revenue (b)	Base O&M <u>Revenue</u> (c)
(1)	Apr-17	\$260,771	(\$54,060)	\$314,831
(2)	May-17	\$508,510	(\$114,258)	\$622,769
(3)	Jun-17	\$710,903	(\$130,368)	\$841,271
(4)	Jul-17	\$814,929	(\$155,299)	\$970,228
(5)	Aug-17	\$808,931	(\$156,615)	\$965,546
(6)	Sep-17	\$724,908	(\$141,863)	\$866,771
(7)	Oct-17	\$687,494	(\$76,017)	\$763,510
(8)	Nov-17	\$763,081	(\$5,678)	\$768,760
(9)	Dec-17	\$781,855	(\$5,711)	\$787,566
(10)	Jan-18	\$1,055,826	(\$7,078)	\$1,062,905
(11)	Feb-18	\$884,277	(\$6,025)	\$890,302
(12)	Mar-18	\$765,176	(\$5,736)	\$770,913
(13)	Apr-18	\$457,098	(\$3,330)	\$460,427
	Total	\$9,223,760	(\$862,039)	\$10,085,799

- (1) Reflects kWhs consumed on and after April 1
- (13) Reflects kWhs consumed prior to April 1
- (a) from monthly revenue reports
- (b) per Page 3, Column (b) and Page 4, Column (b)
- (c) Column (a) Column (b)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4682
FY 2018 Electric Infrastructure, Safety,
and Reliability Plan Reconciliation
Attachment ASC-3
Page 3 of 4

Fiscal Year 2016 O&M Reconciliation of Over Recovery
For the Period April 1, 2015 through March 31, 2016
For the Recovery Period October 1, 2016 through September 30, 2017

		<u>Total</u>	
(1)	Over (Under) Recovery	\$1,753,429	
(2)	O&M Reconciling Factor	(\$0.00022)	
		Total kWhs (a)	Total Revenue (b)
(3)	Oct-16	247,843,091	(\$54,525)
(4)	Nov-16	538,909,651	(\$118,560)
(5)	Dec-16	583,316,761	(\$128,330)
(6)	Jan-17	639,269,015	(\$140,639)
(7)	Feb-17	598,976,060	(\$131,775)
(8)	Mar-17	584,677,659	(\$128,629)
(9)	Apr-17	579,955,496	(\$127,590)
(10)	May-17	519,355,947	(\$114,258)
(11)	Jun-17	592,583,630	(\$130,368)
(12)	Jul-17	705,905,912	(\$155,299)
(13)	Aug-17	711,887,017	(\$156,615)
(14)	Sep-17	644,830,957	(\$141,863)
(15)	Oct-17	334,173,500	(\$73,518)
(16)	Total	7,281,684,696	(\$1,601,971)
(17)	Over (Under) Recovery	_	\$151,458

<sup>(1)</sup> per RIPUC Docket No. 4539, Attachment ASC-3, page 1, line (5)

<sup>(2)</sup> per RIPUC Docket No. 4539, Attachment ASC-3, page 1, line (7)

<sup>(16)</sup> sum of kWhs & revenue

<sup>(17)</sup> Line (1) + Line (3)

<sup>(</sup>a) per Company Records

<sup>(</sup>b) Line (2) x Column (a)

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-3 Page 4 of 4

## Fiscal Year 2017 O&M Reconciliation of Over Recovery For the Period April 1, 2016 through March 31, 2017 For the Recovery Period October 1, 2017 through September 30, 2018

Line No.		<u>Total</u>	
(1)	Over (Under) Recovery	\$110,823	
(2)	O&M Reconciling Factor	(\$0.00001)	
		Total kWhs (a)	Total Revenue (b)
(3)	Oct-17	249,841,705	(\$2,498)
(4)	Nov-17	567,836,612	(\$5,678)
(5)	Dec-17	571,106,445	(\$5,711)
(6)	Jan-18	707,829,345	(\$7,078)
(7)	Feb-18	602,484,543	(\$6,025)
(8)	Mar-18	573,614,573	(\$5,736)
(9)	Apr-18	566,751,892	(\$5,668)
(10)	May-18	553,378,380	(\$5,534)
(11)	Jun-18	570,565,358	(\$5,706)
(12)	Jul-18	-	\$0
(13)	Aug-18	-	\$0
(14)	Sep-18	-	\$0
(15)	Oct-18	-	\$0
(16)	Total	4,963,408,853	(\$49,634)
(17)	Over (Under) Recovery	<u> </u>	\$61,189

<sup>(1)</sup> per RIPUC. Docket No. 4592, Attachment ASC-3 page 1, line (5)

<sup>(2)</sup> per RIPUC. Docket No. 4592, Attachment ASC-3 page 1, line (7)

<sup>(16)</sup> sum of kWhs & revenue

<sup>(17)</sup> Line (1) + Line (3)

<sup>(</sup>a) per Company Records

<sup>(</sup>b) Line (2) x Column (a)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4682
FY 2018 Electric Infrastructure, Safety and Reliability Plan
Annual Reconciliation Filing
Witness: Adam S. Crary

Attachment ASC-4

Typical Bill Analysis

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-4 Page 1 of 6

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

FY 2013 R Richards   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.			Present Rates	Rates		Propos	sed Rates Effectiv	Proposed Rates Effective October 1, 2018	18		\$ Increase (Decrease)	ecrease)		Inc	Increase (Decrease) % of Total Bill	) % of Total Bill		Percentage
From this property of the prop	Monthly	Delivery	Supply			Delivery	Supply			Delivery	Supply				Supply			of Customers
Part	kWh	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total	3
13   13   13   13   13   13   13   13	(a)	(g)	(c)	(a)	(e)	(a)	(c)	(a)	(e)	(D)	66	(n)	(I)		(K)			
1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970	150	\$20.57	\$12.73	\$1.39	\$34.69	\$20.68	\$12.73	\$1.39	\$34.80	\$0.11	\$0.00	\$0.00	\$0.11	0.3%	0.0%	0.0%	0.3%	30.1%
Part	300	\$34.56	\$25.46	\$2.50	\$62.52	\$34.76	\$25.46	\$2.51	\$62.73	\$0.20	\$0.00	\$0.01	\$0.21	0.3%	0.0%	0.0%	0.3%	12.9%
Part	400	\$43.88	\$33.94	\$3.24	\$81.06	\$44.15	\$33.94	\$3.25	\$81.34	\$0.27	\$0.00	\$0.01	\$0.28	0.3%	0.0%	0.0%	0.3%	11.6%
Part	500	\$53.21	\$42.43	\$3.99	\$96.63	\$53.54	\$42.43	\$4.00	\$99.97	\$0.33	\$0.00	\$0.01	\$0.34	0.3%	0.0%	0.0%	0.3%	%9.6
1900   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14   1911-14	009	\$62.53	\$50.92	\$4.73	\$118.18	\$62.93	\$50.92	\$4.74	\$118.59	\$0.40	\$0.00	\$0.01	\$0.41	0.3%	0.0%	0.0%	0.3%	7.7%
1,000   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,010   1,01	700	\$71.85	\$59.40	\$5.47	\$136.72	\$72.32	\$59.40	\$5.49	\$137.21	\$0.47	\$0.00	\$0.02	\$0.49	0.3%	0.0%	0.0%	0.4%	19.0%
Propertical Prop	1,200	\$118.47	\$101.83	\$9.18	\$229.48	\$119.27	\$101.83	\$9.21	\$230.31	\$0.80	\$0.00	\$0.03	\$0.83	0.3%	0.0%	0.0%	0.4%	6.8%
Page	2,000	\$193.05	\$169.72	\$15.12	\$377.89	\$194.39	\$169.72	\$15.17	\$379.28	\$1.34	\$0.00	\$0.05	\$1.39	0.4%	0.0%	0.0%	0.4%	2.3%
Part							2	0	9100	ï	Tree Dill							
Page					(o)		rioposed K	ales Ellective Oc	(n)	1	me nem on bin							
Experience (Large)         \$8.84         \$8.14 (High-p Endoacount Charge)         \$8.73 (High-p	(1) Distribution Customer Charge				\$5.00				\$5.00	Ü	ustomer Charge							
Exercise Description         86.73         87.73         8.67 (crossed) Program           Description (Experiment)         80.00054         80.00054         80.00054         80.00054           Option (Experiment)         80.00075         80.00075         80.00075         80.00075           Option (Experiment)         80.00075         80.00075         80.00075         80.00075         80.00075           Option (Experiment)         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075         80.00075 <td></td> <td>, av</td> <td></td> <td></td> <td>\$0.81</td> <td></td> <td></td> <td></td> <td>\$0.81</td> <td>. 1</td> <td>THEAP Enhancen</td> <td>nent Charge</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		, av			\$0.81				\$0.81	. 1	THEAP Enhancen	nent Charge						
Particular Charge (1997)   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910/264   1910	Renewable Energy Growth Pro	ogram Charge			\$0.78				\$0.78	R	E Growth Progran	, u						
Principal Company   Prin	Distribution Charge (per kWh)				\$0.03664				\$0.03664									
Part	Operating & Maintenance Exp	ense Charge			\$0.00175			į	\$0.00175									
Part   Capta	Operating & Maintenance Exp	ense Reconciliation	Factor		(\$0.00001)				(\$0.00002)									
Participation   Participatio	FY18 CapEx Factor Charge				\$0.00355			L	\$0.00355	4		Č						
Proxition Algorithment Charges         \$50,00083         \$50,00083         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,00028         \$10,	Capta reconcination racor Revenue Decompling Adjustme	ent Factor			\$0.00184				\$0.00184	1	istribution Energ.	, Charge						
Restraction from Find Replication Flowers         \$100038         \$100038           Stream Pum Replication Change And Stream Flowers         \$100047         Reserve Pum Replication Change           Restraction Contracting of Reconside Length Changes         \$100043         Reserve Pum Replication Changes           Rest Afternated Changes         \$100043         \$100043         Reserve Pum Replication Changes           Rest Afternated Changes         \$100044         \$100040         \$100040         \$100040           Rest Afternation Changes Changes         \$100040         \$100040         \$100040         \$100040           Rest Afternation Change Changes	Revenue Decoupring Augustina Pension Adjustment Factor				(\$0.00085)				(\$0.00085)									
Amountage Management Adjustment Enter of Management Enter of Manag	Storm Fund Replenishment Fac	ctor			\$0.00288				\$0.00288									
Long serind Cuntarity for Renewable Energy Charge         \$10.00647         Renewable Energy Distribution Charge           Rest Network Energy Charge         \$0.00151 and the contracting for Renewable Energy Charge         \$0.00151 and the contracting Charge         \$0.00076 and the contracting Charge         \$0.00077 and the contracting Charge		tment Factor			\$0.00002				\$0.00002									
Red Transmistor Clarge         S010043         Notes the water program clarge         S0100443         Notes the water program clarge         S010044         S0100144         S01000144         Page Transition Charge         S01000144         S01000144         Page Transition Charge         S01000144         S01000144         Page Transition Charge         S0100014         Page Transition Charge         S0100014         Page Transition Charge         S0100014         Page Transition Charge         S0100014         Page Supplied Charge         Page Supplied Charge         Page Supplied Charge         Page Suppl	Long-term Contracting for Ren	newable Energy Cha	rge		\$0.00647				\$0.00647	-	and of the second	Distraction Obs						
Exery Efficiency Program Charge         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154         \$0.00154 <t< td=""><td>Net Metering Charge</td><td></td><td></td><td></td><td>\$0.00043</td><td></td><td></td><td></td><td>\$0.00043</td><td>4</td><td>enewable Energy</td><td>Distribution Cita</td><td>1gc</td><td></td><td></td><td></td><td></td><td></td></t<>	Net Metering Charge				\$0.00043				\$0.00043	4	enewable Energy	Distribution Cita	1gc					
Transmission Aljaintnert Factor         \$0000076         Transmission Charge           Transmission Aljaintnert Factor         \$0000071         Transmission Charge           Base Transmiston Charge         \$0000033         Transmission Charge           Transmiston Charge         \$0000003         Transmiston Charge           Sundard Charge Interior Charge         \$0010002         Factor Befiltenert           Transmiston Charge Interior Charge         \$000003         \$000007         Supply Services Bergy Programs           Sundard Offer Service Base Charge         \$000007         \$000007         \$100000         \$100000           Sundard Offer Service Base Charge         \$000007         \$100000         \$100000         \$100000           Renewable Energy Standard Charge         \$000004         \$100000         \$100000         \$100000           Renewable Energy Standard Charge         \$100000         \$100000         \$100000         \$100000         \$100000           Consource Charge         \$0.78         \$100000         \$200         \$200         \$200         \$200           Rescovery Programs         kWh x         \$000000         \$200         \$200         \$200         \$200           Transmission Charge         kWh x         \$000000         \$200         \$200         \$200					\$0.03154				\$0.03154									
Part Principle Factor   Part Principle Charge   Part	(16) Transmission Adjustment Factor	tor			\$0.00076				\$0.00076	Ţ	ransmission Charg	ge						
Exp. Transition Charge         (\$000003)         Transition Charge           Energy Efficiency Programs         (\$00004)         (\$00004)           Energy Efficiency Programs Charge         (\$000007)         (\$000001)           Son Adjustment Teach         (\$000007)         (\$000001)           Standard Offer Service Base Charge         (\$000007)         (\$000007)           Son Adjustment Factor         (\$000007)         (\$000007)           Son Adjustment Factor         (\$000007)         (\$000007)           Renewable Energy Standard Charge         (\$000004)         (\$000004)           Renewable Energy Standard Charge         (\$000004)         (\$000004)           Renewable Energy Standard Charge         (\$000007)         (\$000007)           Reserve the form on Bill         (\$000007)         (\$000007)           Consource Charge         (\$000007)         (\$000007)         (\$000007)           Reference the growth Program         (\$000007)         (\$000007)         (\$000007)         (\$000007)           Reference the growth Program         (\$000007)         (\$000007)         (\$000007)         (\$000007)         (\$000007)         (\$000007)           Remewable Energy Charge         (\$000007)         (\$000007)         (\$000007)         (\$000007)         (\$000007)         (\$000007)	(17) Transmission Uncollectible Fac	ıctor			\$0.00041				\$0.00041									
Page	(18) Base Transition Charge				(\$0.00083)				(\$0.00083)	F	Oncition Chosen							
Energy Efficiency Programs         \$001002         Energy Efficiency Programs           Sundard Older Service Base Charge         \$0.08315         \$0.08315           Standard Older Service Base Charge         \$0.00831         \$0.00831           Ston Administrative Cost Adjustment Factor         \$0.00160         \$0.00160           SOS Administrative Cost Adjustment Factor         \$0.00160         \$0.00004           SOS Administrative Cost Adjustment Factor         \$0.00004         \$0.00004           Renewable Energy Standard Charge         \$5.00         \$0.00004           Renewable Energy Standard Charge         \$5.00         \$0.00004           Customer Charge         \$0.00         \$0.00004           Customer Charge         \$0.00         \$0.00           LIHEAP Endiancement Charge         \$0.00           RE Growth Programs         \$0.00           Respective Charge         \$0.00           Run Anna Standard Charge         \$0.00           Run Anna Standard Charge         \$0.00           Reng Fiderion Programs         \$0.00           Run Anna Standard Charge         \$0.00					(\$0.00004)				(\$0.00004)	1	ransinon Charge							
Substitution   Subs		harge			\$0.01002				\$0.01002	E	nergy Efficiency l	Programs						
SO Adjustment Factor         \$0,00007         Supply Services Energy Charge           SOA Adjustment Factor         \$0,00060         \$0,00060           SOA Adjustment Factor         \$0,00160         \$0,00004           SOA Administrative Cost Adjustment Factor         \$0,00060           Line flew on Bill         \$5.00         \$0,00004           Line flem on Bill         \$5.00         \$0.81           LIFLAN Per Charge         \$0.81         \$0.81           SO 373         \$0.0371         \$0.0371           Transmission Charge         kWh x         \$0.00447         \$0.00451           Beargy Efficiency Pograms         kWh x         \$0.01002         \$0.00690           Renewable Energy Distribution Charge         kWh x         \$0.00690         \$0.00690           Sundow         \$0.00447         \$0.00690         \$0.00690	Standard Offer Service Base C.	Tharge			\$0.08315				\$0.08315									
### Partor Factor S0,000160 \$0,000160 \$0,000160 \$0,000160 \$0,000160 \$0,000160 \$0,000160 \$0,000160 \$0,000160 \$0,000160 \$0,000160 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,000180 \$0,00018	SOS Adjustment Factor				\$0.00007				\$0.00007	Š	nply Services En	ergy Charge						
Second	SOS Adminstrative Cost Adjus	stment Factor			\$0.00160				\$0.00160		244							
Like Item on Bill         \$5.00           Customer Charge         \$5.00           Customer Charge         \$0.81           Like Democrated Charge         \$0.81           Ref Growth Program         \$0.03271           Transmission Charge         \$0.03271           Distribution Energy Charge         \$0.00447           Transmission Charge         \$0.00087           Transmission Charge         \$0.00087           Rwh x         \$0.000087           Scoll Old         \$0.00090           Renewable Energy Distribution Charge         \$0.00690           Rwh x         \$0.00690           Scoll Old         \$0.00690           Supply Services Energy Charge         Rwh x	Renewable Energy Standard C	Charge			\$0.00004				\$0.00004									]
Customer Charge   \$5.00	Line Item on Bill																	FΥ
So 81   So 82   So 8	Customer Charge				\$5.00				\$5.00									
RE Growth Program         \$0.78           Transmission Charge         kWh x         \$0.03271         \$0.03271           Distribution Charge         kWh x         \$0.04447         \$0.0447           Energy Efficiency Programs         kWh x         \$0.01002         \$0.01002           Renewable Energy Distribution Charge         kWh x         \$0.00009         \$0.00009           Supply Services Energy Charge         kWh x         \$0.08486         \$0.00486	LIHEAP Enhancement Charge	6)			\$0.81				\$0.81									
KWh x   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$0.03271   \$	(27) RE Growth Program				\$0.78				\$0.78									
Electric It   KWh x   \$0.00447   \$0.00671   \$0.00671   \$0.00087   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690   \$0.00690	(28) Transmission Charge			kWh x	\$0.03271				\$0.03271									
Programs         kWh x         (\$0.00087)         (\$0.00087)           Distribution Charge         kWh x         \$0.01002         \$0.00090           nergy Charge         kWh x         \$0.006486         \$0.006486	(29) Distribution Energy Charge			kWh x	\$0.04447				\$0.04514									
kWh x \$001002 \$000000 \$000000 \$000000 \$000000 \$000000	(30) Transition Charge			kWh x	(\$0.00087)				(\$0.00087)									
ic Ir (MP) 1	Energy Efficiency Programs			kWh x	\$0.01002				\$0.01002									etr
98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 98780'08 9870'08 9878	Renewable Energy Distribution	n Charge		kWh x	\$0.00690				\$0.00690									ic
	Supply Services Energy Charg	ge		kWh x	\$0.08486				\$0.08486								•	Ir

Column (0): per Summary of Retail Delivery Service Rates, R.J.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.J.P.U.C. No. 2096, effective 7/1/2018 and Summary of Rates Standard Offer Service tariff, R.J.P.U.C. No. 2096, effective 7/1/2018 and Summary of Rates Standard Offer Service tariff, R.J.P.U.C. No. 2096, effective 7/1/2018 Line (3) per Att. ASC-3, Page 1, Line (7); Line (9) per Att. ASC-2, Page 1, Column (b), Line (10)

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-4 Page 2 of 6

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

Percentage of Customers

Part	Delivery Supply   Delivery Supply   Services   Services   GeT   Total   Delivery   Services   GeT   Total   Delivery   Services   GeT   Total   Services	Proposed Kates El	Proposed Rates Effective October 1, 2018		\$ Increase (Decrease)	rease)		Inc	Increase (Decrease) % of Total Bill	% of Total BIII	
State   Stat	Services   Services   GET   Total   Services	Delive		Delivery					Supply		
1.   1.   1.   1.   1.   1.   1.   1.	(b) (c) (d) (e) (d) (e) (d) (d) (e) (d) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Services		Services			Fotal	Services	Services	GET	Total
11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.10   11.1	e \$13.55 \$12.73 \$1.10 \$27.38 \$1.10 \$25.52 \$25.46 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20 \$1.20	(q)		(f)	(g)	(h)	(i)	(i)	(k)	(1)	(m)
10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	e \$83.49 \$83.49 \$83.10 \$87.02 \$83.10 \$833.49 \$833.94 \$82.12 \$853.10 \$833.49 \$833.94 \$82.81 \$87.024 \$811.47 \$842.43 \$85.50 \$87.40 \$810.455 \$87.42 \$89.40 \$84.87 \$8121.69 \$897.30 \$8101.83 \$8.30 \$80.743 \$80.00 \$80.00 \$997.30 \$8101.83 \$8.30 \$80.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.00 \$90.	\$13.65	\$1.10		\$0.00	\$0.00	\$0.10	0.4%	%0.0	0.0%	7.0
18.14   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.15   18.1	e \$87.40 \$83.44 \$70.24 \$70.24 \$81.47 \$42.43 \$5.50 \$87.40 \$81.47 \$42.43 \$5.50 \$87.40 \$81.455 \$87.42 \$89.40 \$84.18 \$104.455 \$89.40 \$84.18 \$104.455 \$89.40 \$84.87 \$121.69 \$897.30 \$101.83 \$8.30 \$207.43 \$897.30 \$101.83 \$8.30 \$207.43 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00 \$80.00	\$25.72	\$2.13		\$0.00	\$0.01	\$0.21	0.4%	%0.0	0.0%	7.0
State   Stat	S41.47	\$33.76	\$2.82		\$0.00	\$0.01	\$0.28	0.4%	0.0%	0.0%	7.0
1875   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870   1870	S49.45 \$50.92 \$4.18 \$104.55     S57.42 \$59.40 \$4.87 \$121.69     S57.42 \$59.40 \$4.87 \$121.69     S161.11 \$169.72 \$13.78 \$5.34.61 \$5.00     Present Rates   S0.00175     Present Rates   S0.00118     Present Rates   Present Rates   S0.00118     Present Rates   Present Rat	\$41.81	\$3.51		\$0.00	\$0.01	\$0.35	0.4%	0.0%	0.0%	7.0
857.42         58.40         511 of blank         55.40         512 of blank         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20         51.20 </td <td>  S57.42 \$59.40 \$4.87 \$121.69    </td> <td>\$49.85</td> <td>\$4.20</td> <td></td> <td>\$0.00</td> <td>\$0.02</td> <td>\$0.42</td> <td>0.4%</td> <td>0.0%</td> <td>0.0%</td> <td>7.0</td>	S57.42 \$59.40 \$4.87 \$121.69	\$49.85	\$4.20		\$0.00	\$0.02	\$0.42	0.4%	0.0%	0.0%	7.0
SiG11 Sign Sign Sign Sign Sign Sign Sign Sign	S97.30 \$101.83 \$8.30 \$207.43   S161.11 \$169.72 \$13.78 \$2344.61 \$1 \$161.11 \$169.72 \$13.78 \$2344.61 \$1 \$161.11 \$169.72 \$13.78 \$2344.61 \$1 \$160.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.0	\$57.89	\$4.89		\$0.00	\$0.02	\$0.49	0.4%	0.0%	0.0%	7.0
Sicili Sion	S161.11 S169.72 S13.78 S344.61	\$98.11	\$8.33		\$0.00	\$0.03	\$0.84	0.4%	0.0%	0.0%	.0
Columb   Present Rates   Proposed Rates Effective October 1, 2018   50.00   50.01   50.00   50.01   50.00   50.01   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00   50.00	e e ge 'ye 'n'ogamı Charge 'n')  1)  1)  1)  1)  1)  1)  1)  1)  1)	\$162.45	\$13.84		\$0.00	\$0.06	\$1.40	0.4%	0.0%	0.0%	7.0
(0)         (0)           50.00         50.00         50.00           personn Charge         \$0.0217         \$0.018           rogann Charge         \$0.00175         \$0.0177           pense Charge         \$0.00175         \$0.00175           pense Reconciliation Factor         \$0.000175         \$0.00175           pense Reconciliation Factor         \$0.000176         \$0.000175           pense Reconciliation Factor         \$0.000184         \$0.000175           record         \$0.000184         \$0.000184         \$0.000184           stenor         \$0.00028         \$0.000184         \$0.000184           crecord         \$0.00028         \$0.000184         \$0.000184           stenor         \$0.00028         \$0.000184         \$0.000184           stenor         \$0.00028         \$0.000184         \$0.000184           stenor         \$0.00028         \$0.000184         \$0.000184           stenor         \$0.00041         \$0.00018         \$0.00018           stenor         \$0.00049         \$0.00018         \$0.00018           stenor         \$0.00102         \$0.00018         \$0.00018           stenor         \$0.00102         \$0.00018         \$0.00018	e e regem Charge  (n)  pense Charge pense Reconciliation Factor nent Factor sment Factor cnewable Energy Charge ctor 'actor		ed Rates Effective October 1, 201		ine Item on Bill						
e (20,81)         \$0.00         \$0.00           gen (20,81)         \$0.0173         \$0.078         \$0.078           h) Cogam Change         \$0.07317         \$0.02317         \$0.02317         \$0.02317         \$0.00313         \$0.00317         \$0.00317         \$0.00317         \$0.00317         \$0.00317         \$0.00317         \$0.00317         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00031         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00041         \$0.00042         \$0.00042         \$0.00042<	e e ge ye comme Charge  (1) pense Charge pense Reconciliation Factor actor actor actor actor actor concwable Energy Charge Charge Charge Charge Charge Charge		(d)								
get         \$0.81         \$0.81           organn Charge         \$0.73         \$0.78         \$0.81           rogann Charge         \$0.00175         \$0.00175         \$0.00175           peace Charge         \$0.00175         \$0.00175         \$0.00175           peace Reconciliation Factor         \$0.00184         \$0.00175         \$0.00175           peace Reconciliation Factor         \$0.00184         \$0.00184         \$0.00184           seator         \$0.00184         \$0.00184         \$0.00184           step of control         \$0.00184         \$0.00085         \$0.00085           step of control         \$0.00028         \$0.00087         \$0.00087           control         \$0.00047         \$0.00047         \$0.00047           burder         \$0.00049         \$0.00041         \$0.00041           charge         \$0.00049         \$0.00041         \$0.00041           charge         \$0.00049         \$0.00041         \$0.00041           charge         \$0.00049         \$0.00040         \$0.00040           charge         \$0.00049         \$0.00040         \$0.00040           charge         \$0.00040         \$0.00040         \$0.00040           charge         \$0.00040	ye rognam Charge rognam Charge pense Reconciliation Factor nent Factor siment Factor actor actor harge Charge Charge Charge	\$0.00	30.0\$		Customer Charge						
Original Charge         \$0.78         \$0.78           Congrain Charge         \$0.02317         \$0.02317           porase Charge         \$0.000155         \$0.00175           porase Reconcilitation Factor         \$0.000155         \$0.00175           porase Reconcilitation Factor         \$0.000183         \$0.000155           score Page         \$0.000184         \$0.000184         \$0.000184           score Page         \$0.000184         \$0.000184         \$0.000184           suncat Factor         \$0.000028         \$0.000184         \$0.000184           stactor         \$0.000043         \$0.00043         \$0.00041           cate and Factor         \$0.000041         \$0.00041         \$0.00041           charge         \$0.00041         \$0.00041         \$0.00041           charge         \$0.00042         \$0.00041           charge	rogram Charge  1)  Perse Charge  pense Reconciliation Factor  nent Factor  stment Factor  ctor  actor  harge  Charge  Charge  Charge  con Charge	\$0.81	\$0.81		LIHEAP Enhancemer	nt Charge					
(SO 002317)         SO 002317         SO 002317           p-panse Charge         \$0.00175         \$0.00175           p-panse Charge         \$0.00035         \$0.00023           spense Reconciliation Factor         \$0.00035         \$0.00023           spense Reconciliation Factor         \$0.000133         \$0.00023           senter         \$0.000184         \$0.00063           stepor         \$0.00028         \$0.00063           stepor         \$0.00028         \$0.00063           stepor         \$0.00047         \$0.00064           stepor         \$0.00043         \$0.00041           stepor         \$0.00043         \$0.00041           stepor         \$0.00041         \$0.00041           stepor         \$0.00043         \$0.00041           closed         \$0.00043         \$0.00041           closed         \$0.00043         \$0.00041           closed         \$0.00044         \$0.00044           closed         \$0.00044         \$0.00044           closed         \$0.00044         \$0.00044           step         \$0.00044         \$0.00044           step         \$0.00044         \$0.00064           step         \$0.00044         \$0.00064 </td <td>p:prase Charge p:prase Reconciliation Factor nent Factor siment Factor conewable Energy Charge ctor actor harge Charge ge</td> <td>\$0.78</td> <td>\$0.78</td> <td></td> <td>RE Growth Program</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	p:prase Charge p:prase Reconciliation Factor nent Factor siment Factor conewable Energy Charge ctor actor harge Charge ge	\$0.78	\$0.78		RE Growth Program						
pennse Change         \$0.00175         \$0.00175           pennse Reconciliation Factor         \$0.00135         \$0.00135           spense Reconciliation Factor         \$0.00134         \$0.00184           rent Factor         \$0.00184         \$0.00184           step of Change         \$0.00288         \$0.00184           step of Change         \$0.00043         \$0.00043           step of Change         \$0.00043         \$0.00041           ctor         \$0.00043         \$0.00041           stator         \$0.00043         \$0.00041           ctor         \$0.00043         \$0.00041           harge         \$0.00040         \$0.00041           charge         \$0.00041         \$0.00041           charge         \$0.00040         \$0.00041           charge         \$0.00041         \$0.00041           charge         \$0.00041         \$0.00041           charge         \$0.00042         \$0.00041           charge         \$0.00043         \$0.00044           charge         \$0.0004         \$0.00041           charge         \$0.0004         \$0.0004           specification         \$0.0004         \$0.0004           charge         \$0.0004         <	pense Charge pense Reconciliation Factor sector sment Factor enewable Energy Charge ctor actor harge Charge Charge con Charge	02317	\$0.02317								
person Reconciliation Factor         (\$0,0001)         (\$0,0002)           person Reconciliation Factor         (\$0,00184)         (\$0,00184)           (\$0,00184)         (\$0,00184)         (\$0,00085)           sinctor         (\$0,00085)         (\$0,00085)           sinctor         (\$0,00082)         (\$0,00082)           sinctor         (\$0,00082)         (\$0,00084)           sinctor         (\$0,00084)         (\$0,00084)           sinctor         (\$0,00041)         (\$0,00041)           since         (\$0,00041)         (\$0,00041)           since         (\$0,00041)         (\$0,00041)           since         (\$0,00041)         (\$0,00041)           since         (\$0,00042)         (\$0,00041)           since         (\$0,00041)         (\$0,00041)           since         (\$0,00041)         (\$0,000871)	pense Reconciliation Factor nent Factor anent Factor enewable Energy Charge ctor actor thange Charge Charge Charge Charge Charge	00175	\$0.00175								
SOUGGSSD         SOUGGSSD         SOUGGSD           SECTOR         SOUGGSSD         SOUGGSSD         SOUGGSSD           SECTOR         SOUGGSSD         SOUGGSSD         SOUGGSSD         SOUGGSSD           SECTOR         SOUGGSSD         SOUGGSSD         SOUGGSSD         SOUGGSSD         SOUGGSSD         SOUGGSSD         SOUGGSSD         SOUGGSSD         SOUGGSSD         SOUGGSD         S	nent Factor sinent Factor enewable Energy Charge ctor tharge Charge Charge Charge Charge	00001)	(\$0.0000								
S0,000154   S0,000184   S0,000184   S0,000184   S0,000184   S0,000184   S0,000184   S0,000184   S0,000184   S0,000184   S0,000085   S0,00085   S0,00085   S0,00085   S0,00045   S0,00064   S0,00067	vactor stiment Factor enewable Energy Charge ctor vactor ctor ctor ctor ctor ctor ctor ctor	00355	\$0.0035			į					
S0,001544   S0,00184   S0,00184   S0,00184   S0,000184   S0,00028   S0,00028   S0,00028   S0,00024   S0,00027   S0,0002	nent Factor stiment Factor enewable Energy Charge ctor harge Charge Charge con Charge	00135)	(80.0008)		Distribution Energy C	harge					
sector         \$0,000025)         \$0,000025           sement Factor         \$0,00002         \$0,00002           sement Factor         \$0,00047         \$0,00047           sentent Factor         \$0,00047         \$0,00047           sector         \$0,00041         \$0,00041           ctor         \$0,00041         \$0,00041           sector         \$0,00041         \$0,00041           state         \$0,00042         \$0,00041           state         \$0,00042         \$0,00042           state	sment Factor enewable Energy Charge actor actor harge Charge Charge charge charge charge	00184	\$0.00184								
studiosas         solutorosas           struct         solutorosas           struct         solutorosas           struct         solutosas           struct         solutosas         solutosas           struct         struct         solutosas           struct         struct         struct           struct         struct         struct           struct         struct         struct           struct         struct         struct	and the factor conservable Energy Charge  Charge Charge Charge Charge Charge Charge Charge	00085)	3800003								
sundoz         sundoz           sundoz	simen Factor ctor 'actor Charge Charge Charge on Charge	00288	\$87000								
S0,00064   S0,00067   S0,000687   S0,00067	enewable Energy Charge ctor harge Charge Charge charge con Charge	20002	\$0.0002				ĺ				
S0.00043   S0.00045   S0.00041   S0.00041   S0.00041   S0.000164   S0.000164   S0.000164   S0.000164   S0.000164   S0.000041   S0.000041   S0.000041   S0.000043   S0.000043   S0.000043   S0.000043   S0.000043   S0.00007   S0.000007   S0.0000007   S0.000007   S0.0000007   S0.000007   S0.000007   S0.000007   S0.000007   S0.000007	etor Tharge Charge Charge on Charge	00647 00043	\$0.0064	ı	Renewable Energy Di	istribution Charge	0				
ctor         \$0.000144         \$0.00016           Succolled         \$0.00041         \$0.00041           Succolled         \$0.00041         \$0.00041           Sharge         \$0.00043         \$0.00043           Charge         \$0.00042         \$0.00043           Summer Factor         \$0.0007         \$0.00043           Summer Factor         \$0.0007         \$0.0007           Summer Factor         \$0.0007         \$0.00087           Summer Factor         \$0.00087         \$0.00080           Summer Factor         \$0.00087         \$0.00080           Summer Factor         \$0.00087         \$0.00080           Summer Factor         \$0.0087         \$0.00880           Summer Factor         \$0.	Tactor Tactor Tharge Charge Charge Charge Charge Charge Charge	22154	2003								
S0.00041   S0.00004   S0.00004   S0.00004   S0.00007   S0.00007   S0.00007   S0.00004   S0.00007   S0.000007	State or Sta	00076	920000S		Fransmission Charge						
(\$0.00083) (\$0.00083) (\$0.00083) (\$0.00083) (\$0.00083) (\$0.00084) (\$0.00004) (\$0.00004) (\$0.00004) (\$0.00004) (\$0.00004) (\$0.00004) (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.000160 (\$0.00016	harge Charge Charge Charge on Charge	00041	\$0.00041		0						
S0,00004)   S0,00004)   S0,00004)   S0,00004)   S0,00004   S0,00002   S0,000315   S0,000315   S0,000315   S0,000315   S0,00007   S0,00007   S0,00007   S0,00004   S0,00004   S0,00004   S0,00004   S0,00004   S0,00004   S0,00004   S0,00004   S0,00007   S0,00007   S0,00007   S0,00007   S0,00007   S0,00007   S0,00007   S0,00007   S0,00007   S0,000007   S0,0000007   S0,000007   S0,0000007   S0,0000000   S0,00000000   S0,00000000   S0,0000000000	harge Charge Charge charge on Charge	00083)	(\$0.00083								
Phange   \$0.01 00.02   \$0.01 00.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 00.07   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00 10.02   \$0.00	Charge Charge Charge Charge on Charge	00004)	M0000(\$)		ransition Charge						
Charge         \$0.08315         \$0.08315           so.00007         \$0.00007         \$0.00007           usment Factor         \$0.00160         \$0.00160           Charge         \$0.00160         \$0.00160           ge         \$0.00         \$0.000           spe         \$0.33         \$0.31           \$0.0371         \$0.0371         \$0.0371           \$0.00087)         \$0.00087         \$0.00087           ge         \$0.00690         \$0.00690           ge         \$0.08486         \$0.08486	Charge Usment Factor Charge ge on Charge	01002	\$0.01002		Snergy Efficiency Pro	ograms					
S0,00007   S0,00007	usment Factor Charge ge on Charge	38315	\$1680.0\$								
S0,000160   S0,000160   S0,000160	Istment Factor Charge ge on Charge	20007	\$0.0007		Supply Services Energ	ov Charoe					
Charge \$0.0004  \$0.00  \$0.00  \$0.0371  \$0.03100  \$0.00007)  \$0.00002  \$0.000486	Charge ge on Charge	00160	\$0.00160		apply services and the	6) cimis					
\$0.00 \$0.81 \$0.81 \$0.03 \$0.03 \$0.03 \$0.00007) \$0.01002 \$0.000690 \$0.00690 \$0.00690	se on Charge	00004	\$0.0004								
\$0.00 \$0.81 \$0.81 \$0.03 \$0.03271 \$0.0370 \$0.0000 \$0.00002 \$0.00002 \$0.00000	ge on Charge										
\$0.81 \$0.78 \$0.03271 \$0.03100 (\$0.00087) \$0.01002 \$0.00690 'ge \$0.08486	se on Charge	\$0.00	\$0.00								
\$0.78 \$0.03271 \$0.03271 \$0.03100 (\$0.00087) \$0.01002 \$0.00690 \$0.08486	on Charge	\$0.81	\$0.81								
\$0.03271 \$0.03100 \$0.00087) \$0.01002 \$0.00690 'ge \$0.08486	on Charge	\$0.78	80.78								
\$0.03100 (\$0.00087) \$0.01002 \$0.00690 'ge \$0.08486	on Charge	33271	\$0.03271								
(\$0.00087) \$0.01002 on Charge \$0.00690 'ge \$0.08486	on Charge	03100	\$0.03167								
\$0.01002 on Charge \$0.00690 'ge \$0.08486	on Charge	00087)	(\$0.0008)	_							
\$0.00690 \$0.08486		01002	\$0.01002								
\$0.08486		06900	\$0.0060								
		38486	\$0.08486								

Column (9): per Summary of Retail Delivery Service Rates, R.LP.U.C. No. 2095 effective 7/1/2018, and Summary of Retail Oelivery Service Rates, R.LP.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.LP.U.C. No. 2096, effective 7/1/2018 and Summary of Rates Standard Offer Service tariff, R.LP.U.C. No. 2096, effective 7/1/2018 Line (6) per Att. ASC-3, Page 1, Line (7); Line (8) per Att. ASC-2, Page 1, Column (b), Line (10)

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-4 Page 3 of 6

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

Monthly   Delivery Support	very Supply ices Services \$52.95 \$20.48 \$53.83 \$40.95 \$53.83 \$40.95 \$137.34 \$122.85 \$179.09 \$163.80	GF (d	F Total (e) \$2.23 \$55.66	Delivery Services (b)	rery Supply ices Services		GET	Total	Delivery	Supply			Delivery	Supply			of Customers
	Services (c) () 2.95 \$20. 2.95 \$20. 2.83 \$40. 2.34 \$122. 2.09 \$163.	GF (d	To	Servic (b)			GET	Total	Carriose	Commission							OI CUSTOILES
	.95 \$20. .83 \$40.0 .58 \$81. .34 \$122. .09 \$163.						9	(9)	Services (f)	(e)	GET (h)	Total	Services	Services (k)	GET	Total (m)	(
	.83 \$40. .58 \$81. .34 \$122. .09 \$163.				33.08	\$20.48	\$2.23	\$55.79	\$0.13	\$0.00	\$0.00	\$0.13	0.2%	0.0%	0.0%	0.2%	56.3%
	.34 \$122. 109 \$163.		\$3.95 \$98.73		\$54.10	\$40.95	\$3.96	\$99.01	\$0.27	\$0.00	\$0.01	\$0.28	0.3%	0.0%	0.0%	0.3%	16.9%
	34 \$122.		\$7.40 \$184.88		\$96.12	\$81.90	\$7.42	\$185.44	\$0.54	\$0.00	\$0.02	\$0.56	0.3%	0.0%	0.0%	0.3%	8.1%
	109 \$163.		\$10.84 \$271.03		\$138.15	\$122.85	\$10.88	\$271.88	\$0.81	\$0.00	\$0.04	\$0.85	0.3%	%0.0	0.0%	0.3%	2.0%
	iation Factor		\$14.29 \$357.18		\$180.17	\$163.80	\$14.33	\$358.30	\$1.08	\$0.00	\$0.04	\$1.12	0.3%	0.0%	0.0%	0.3%	13.6%
	iation Factor		Present Rates	tes	д	Proposed Rates Effective October 1, 2018	Effective Octo	ober 1, 2018	Ľi	Line Item on Bill							
	iation Factor		(0)	Ì				(d)									
	iation Factor		\$10.00	0(				\$10.00	บี	Customer Charge							
	iation Factor		\$0.81	31				\$0.81	n	LIHEAP Enhancement Charge	nent Charge						
	iation Factor		\$1.26	97				\$1.26	RE	RE Growth Program	п						
	iation Factor		\$0.03253	53				\$0.03253									
	iation Factor		\$0.00176	9,				\$0.00176									
			(\$0.00001)	(1(				(\$0.00002)									
			\$0.00322	73				\$0.00322									
			(\$0.00119)	(6)				(\$0.00064)	Di	Distribution Energy Charge	y Charge						
			\$0.00184	*				\$0.00184									
			(\$0.00085)	35)				(\$0.00085)									
(11) Storm Fund Replenishment Factor			\$0.00288	<b>8</b>				\$0.00288									
(12) Arrearage Management Adjustment Factor			\$0.00002	72				\$0.00002									
(13) Long-term Contracting for Renewable Energy Charge	y Charge		\$0.00647	1.1				\$0.00647	Do	Danamahla Knasm Distribution Charac	Distribution Cha	ODA					
(14) Net Metering Charge			\$0.00043	13				\$0.00043	W	circw and Lineigy	Distribution Cita	u.gc					
(15) Base Transmission Charge			\$0.03167	25				\$0.03167									
(16) Transmission Adjustment Factor			(\$0.00474)	74)				(\$0.00474)	Tr	Transmission Charge	ge						
(17) Transmission Uncollectible Factor			\$0.00033	33				\$0.00033									
(18) Base Transition Charge			(\$0:00083)	33)				(\$0.00083)	Ţ	Transition Charge							
(19) Transition Adjustment			(\$0.00004)	¥)				(\$0.00004)		ansinon cuargo							
			\$0.01002	72				\$0.01002	Er	Energy Efficiency Programs	Programs						
			\$0.08068	28				\$0.08068									
(22) SOS Adjustment Factor			(\$0.00041)	(F				(\$0.00041)	is.	Sunnly Services Energy Charge	erov Charoe						
(23) SOS Adminstrative Cost Adjustment Factor			\$0.00159	66				\$0.00159	1		-0						
(24) Renewable Energy Standard Charge			\$0.00004	¥				\$0.00004									
Line Item on Bill																	
(25) Customer Charge			\$10.00	00				\$10.00									
(26) LIHEAP Enhancement Charge			\$0.81	31				\$0.81									
(27) RE Growth Program			\$1.26	97				\$1.26									F
(28) Transmission Charge			\$0.02726	97				\$0.02726									Υ
(29) Distribution Energy Charge			\$0.04020	03				\$0.04074									7 /
(30) Transition Charge			(\$0.00087)	(78				(\$0.00087)									
(31) Energy Efficiency Programs			\$0.01002	72				\$0.01002									
(32) Renewable Energy Distribution Charge			\$0.00690	06				\$0.00690									
(33) Supply Services Energy Charge			\$0.08190	06				\$0.08190									El Re

Column (0): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018 and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018 Line (6) per Att. ASC-3, Page 1, Line (7); Line (8) per Att. ASC-2, Page 1, Column (c), Line (10)

The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-4 Page 4 of 6

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

				Present Rates	Rates		Propos	Proposed Rates Effective October 1, 2018	e October 1, 201	8		\$ Increase (Decrease)	ecrease)			Increase (Decrease) % of Total Bill	e) % of Total Bill	
	Monthly Power		Delivery	Supply			Delivery	Supply			Delivery	Supply			Delivery	Supply		
kW	Hours Use	kWh	Services (h)	Services (c)	GET	Total (e)	Services (h)	Services (c)	GET G	Total (e)	Services	Services	GET	Total	Services	Services (k)	ŒŢ	Total (m)
00	(a) 300	7 000	(9)	(5)	(u) 831 66	6201 58	6434 52	(5)	(a)	(c)	(1) 00 C C \$	(8)	(III)	(I)	0.3%	(K)	0.0%	(III)
8 8	200	000,4	\$432.32	\$327.80	\$31.00	\$1.836.52	\$434.32	\$327.80	\$21.70	\$193.00	92.20	\$0.00	\$0.10	\$5.30	0.3%	0.0%	%0.0 %0.0	0.5%
100	200	20.000	\$1.796.96	\$1.638.00	\$143.12	\$3.578.08	\$1.807.96	\$1.638.00	\$143.58	\$3,589,54	\$11.00	\$0.00	\$0.46	\$11.46	0.3%	0.0%	0.0%	0.3%
150	200	30,000	\$2,649.86	\$2,457.00	\$212.79	\$5,319.65	\$2,666.36	\$2,457.00	\$213.47	\$5,336.83	\$16.50	\$0.00	\$0.68	\$17.18	0.3%	0.0%	0.0%	0.3%
20	300	9000	\$502.70	\$491.40	\$41.42	\$1,035.52	\$506.00	\$491.40	\$41.56	\$1,038.96	\$3.30	\$0.00	\$0.14	\$3.44	0.3%	0.0%	0.0%	0.3%
20	300	15,000	\$1,120.01	\$1,228.50	\$97.85	\$2,446.36	\$1,128.26	\$1,228.50	\$98.20	\$2,454.96	\$8.25	\$0.00	\$0.35	88.60	0.3%	0.0%	0.0%	0.4%
100	300	30,000	\$2,148.86	\$2,457.00	\$191.91	\$4,797.77	\$2,165.36	\$2,457.00	\$192.60	\$4,814.96	\$16.50	\$0.00	\$0.69	\$17.19	0.3%	0.0%	0.0%	0.4%
150	300	45,000	\$3,177.71	\$3,685.50	\$285.97	\$7,149.18	\$3,202.46	\$3,685.50	\$287.00	\$7,174.96	\$24.75	\$0.00	\$1.03	\$25.78	0.3%	0.0%	0.0%	0.4%
20	400	8,000	\$573.08	\$655.20	\$51.18	\$1,279.46	\$577.48	\$655.20	\$51.36	\$1,284.04	\$4.40	\$0.00	\$0.18	\$4.58	0.3%	0.0%	0.0%	0.4%
20	400	20,000	\$1,295.96	\$1,638.00	\$122.25	\$3,056.21	\$1,306.96	\$1,638.00	\$122.71	\$3,067.67	\$11.00	\$0.00	\$0.46	\$11.46	0.4%	0.0%	0.0%	0.4%
100	400	40,000	\$2,500.76	\$3,276.00	\$240.70	\$6,017.46	\$2,522.76	\$3,276.00	\$241.62	\$6,040.38	\$22.00	\$0.00	\$0.92	\$22.92	0.4%	0.0%	0.0%	0.4%
150	400	60,000	\$3,705.56	\$4,914.00	\$359.15	\$8,978.71	\$3,738.56	\$4,914.00	\$360.52	\$9,013.08	\$33.00	\$0.00	\$1.37	\$34.37	0.4%	0.0%	0.0%	0.4%
20	200	10,000	\$643.46	\$819.00	\$60.94	\$1,523.40	\$648.96	\$819.00	\$61.17	\$1,529.13	\$5.50	\$0.00	\$0.23	\$5.73	0.4%	0.0%	0.0%	0.4%
20	200	25,000	\$1,471.91	\$2,047.50	\$146.64	\$3,666.05	\$1,485.66	\$2,047.50	\$147.22	\$3,680.38	\$13.75	\$0.00	\$0.58	\$14.33	0.4%	0.0%	0.0%	0.4%
100	200	50,000	\$2,852.66	\$4,095.00	\$289.49	\$7,237.15	\$2,880.16	\$4,095.00	\$290.63	\$7,265.79	\$27.50	\$0.00	\$1.14	\$28.64	0.4%	0.0%	0.0%	0.4%
150	200	75,000	\$4,233.41	\$6,142.50	\$432.33	\$10,808.24	\$4,274.66	\$6,142.50	\$434.05	\$10,851.21	\$41.25	\$0.00	\$1.72	\$42.97	0.4%	0.0%	0.0%	0.4%
20	009	12,000	\$713.84	\$982.80	\$70.69	\$1,767.33	\$720.44	\$982.80	\$70.97	\$1,774.21	\$6.60	\$0.00	\$0.28	\$6.88	0.4%	0.0%	0.0%	0.4%
20	009	30,000	\$1,647.86	\$2,457.00	\$171.04	\$4,275.90	\$1,664.36	\$2,457.00	\$171.72	\$4,293.08	\$16.50	\$0.00	\$0.68	\$17.18	0.4%	0.0%	0.0%	0.4%
100	009	60,000	\$3,204.56	\$4,914.00	\$338.27	\$8,456.83	\$3,237.56	\$4,914.00	\$339.65	\$8,491.21	\$33.00	\$0.00	\$1.38	\$34.38	0.4%	0.0%	0.0%	0.4%
150	009	90,000	\$4,761.26	\$7,371.00	\$505.51	\$12,637.77	\$4,810.76	\$7,371.00	\$507.57	\$12,689.33	\$49.50	\$0.00	\$2.06	\$51.56	0.4%	0.0%	0.0%	0.4%
						Present Rates (0)		Proposed Ra	Proposed Rates Effective October 1, 2018 (D)	tober 1, 2018 (p)	긔	Line Item on Bill						
;	i											i						
(1) Distribution	(1) Distribution Customer Charge					\$135.00				\$135.00	0 1	Customer Charge	Ċ					
(2) Linear En (3) Renewable I	LINEAF EIMAICEMENT CHAIGE Renewable Energy Growth Program Charge	n Charge				\$11.85				\$11.85	1 24	LINEAF Ennanceme RE Growth Program	nem Charge m					
	Base Distribution Demand Charge (per kW > 10kW)	(per kW > 10k	(W)			\$4.85				\$4.85	Q	Distribution Demand Charge	nd Charge					
	Distribution Charge (per kWh)					\$0.00468				\$0.00468			o					
	Operating & Maintenance Expense Charge	: Charge				\$0.00128				\$0.00128								
(7) Operating &	Operating & Maintenance Expense Reconciliation Factor	Reconciliation	n Factor			(\$0.00001)				(\$0.00002)								
(8) FY18 CapE	FY18 CapEx Factor Demand Charge (per kW > 10kW)	ge (per kW > .	10kW)			\$0.80			Ι.	\$0.80								
	CapEx Reconciliation Factor					(\$0.00098)				(\$0.00042)	Д	Distribution Energy Charge	y Charge					
(10) Revenue De	Revenue Decoupling Adjustment Factor	actor				\$0.00184				\$0.00184								
(11) Pension Adj	Pension Adjustment Factor					(\$0.00085)				(\$0.00085)								
(13) Arrearage M	Arrearage Management Adjustment Factor	t Factor				\$0.00002				\$0.00002								
(14) Long-term C	Long-term Contracting for Renewable Energy Charge	ble Energy Ch	arge			\$0.00647				\$0.00647	q	Donord Distriction Officers	Continue	0.000				
(15) Net Metering Charge	g Charge					\$0.00043				\$0.00043	Z	circwanie niergy	Distribution Cita	agn				
(16) Transmissio	Transmission Demand Charge					\$4.37				\$4.37	T T	Transmission Demand Charge	and Charge					
(17) Base Transmission Charge	mission Charge					\$0.01231				\$0.01231	E							
(18) Transmissio (19) Transmissio	(18) Transmission Adjustment Factor (19) Transmission Uncollectible Factor					(\$0.00236)				(\$0.00236)	-	Iransmission Adjustment	stment					
(20) Base Transition Charge	ion Charge					(\$0.00083)				(\$0.00083)		:						
(21) Transition Adjustment	Adjustment					(\$0.00004)				(\$0.00004)	F	Transition Charge						
	Energy Efficiency Program Charge					\$0.01002				\$0.01002	E	Energy Efficiency Programs	Programs					an
	Standard Offer Service Base Charge	e.				\$0.08068				\$0.08068								d
(24) SOS Adjustment Factor (25) SOS Adminstrativa Cos	SOS Administrativa Cost Adjustment Eactor	nt Eactor				(\$0.00041)				(\$0.0041)	Š	Supply Services Energy Charge	ergy Charge					R
(26) Renewable I	Renewable Energy Standard Charge	e.				\$0.00004				\$0.00004								eli
;																		iał
Line Item on Bill (27) Customer Charge	n Bill haroe					\$135.00				\$135.00								oil
(29) LIHEAP En	LIHEAP Enhancement Charge					\$0.81				\$0.81								ity
	Program					\$11.85				\$11.85								
	Transmission Adjustment					\$0.01028				\$0.01028								
	Distribution Energy Charge					\$0.00886				\$0.00941								
(32) Distribution	Distribution Demand Charge					8.5.2				\$5.65								
	haroe					(\$0.000.87)				(\$0.00087)								
	ciency Programs					\$0.01002				\$0.01002							Р	ne
(34) Renewable 1	Renewable Energy Distribution Charge	arge				\$0.00690				\$0.00690							'aş	en
	Supply Services Energy Charge	,				\$0.08190				\$0.08190							ge	ıt 1
																	; 4	A

Column (0); per Summany of Retail Delivery Service Rates, R.L.P.U.C., No. 2095 effective 7/1/2018, and Summany of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 7/1/2018 Column (p): Lines (1) through (6), (8), (10) through (26) per Summany of Retail Delivery Service Rates, R.L.P.U.C. No. 2095 effective 7/1/2018, and Summany of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 7/1/2018 Line (7) per Att. ASC-3, Page 1, Line (7), Line (9) per Att. ASC-2, Page 1, Column (d), Line (10)

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The Narragansett Electric Company d/b/a National Grid RIPUC Docket No. 4682 FY 2018 Electric Infrastructure, Safety, and Reliability Plan Reconciliation Attachment ASC-4 Page 5 of 6

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

This color				Present Rates	Sates		Propose	Proposed Rates Effective October 1, 2018	e October 1, 20	81		\$ Increase (Decrease)	ecrease)		III	Increase (Decrease) % of Total Bill	) % of Total Bill	
Page			Delivery	Supply			Delivery	Supply			Delivery	Supply				Supply		
Page			Services (b)	Services (c)	GET (d)	Total (e)	Services (b)	Services (c)	G GET	Total (e)	Services (f)	Services (g)	GET (B)	Total (i)	Services (j)	Services (k)	GET ()	Total (m)
Page   Pa		40,000	\$3,316.67	\$2,883.60	\$258.34	\$6,458.61	\$3,324.27	\$2,883.60	\$258.66	\$6,466.53	\$7.60	\$0.00	\$0.32	\$7.92			%0:0	
Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		150,000	\$12,441.17	\$10,813.50	\$968.94	\$24,223.61	\$12,469.67	\$10,813.50	\$970.13	\$24,253.30	\$28.50	\$0.00	\$1.19	\$29.69	0.1%	90.0	0.0%	0.1%
Page		200,000	\$16,588.67	\$14,418.00	\$1,291.94	\$32,298.61	\$16,626.67	\$14,418.00	\$1,293.53	\$32,338.20	\$38.00	\$0.00	\$1.59	\$39.59	0.1%	0.0%	0.0%	0.1%
Page    Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   P		300,000	\$24,883.67	\$21,627.00	\$1,937.94	\$48,448.61	\$24,940.67	\$21,627.00	\$1,940.32	\$48,507.99	\$57.00	\$0.00	\$2.38	\$59.38	0.1%	0.0%	0.0%	0.1%
Page		500,000	\$41,473.67	\$36,045.00	\$3,229.94	\$80,748.61	\$41,568.67	\$36,045.00	\$3,233.90	\$80,847.57	\$95.00	\$0.00	\$3.96	\$98.96	0.1%	%0.0	0.0%	0.1%
Page    Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   P		000,000	\$4,049.67	\$4,325.40	\$348.96	\$8,724.03	\$4,061.07	\$4,325.40	\$349.44	\$8,735.91	\$11.40	\$0.00	\$0.48	\$11.88	0.1%	%0:0 %0:0	80:0	0.1%
Page 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		300.000	\$13,189.92	\$21.627.00	\$1,306.70	\$43,625.70	\$20,310.67	\$21.627.00	\$1,510.54	\$22,705.40	\$42.73	\$0.00	\$2.37	\$59.37	0.1%	%0.0 %0.0	%0:0 %0:0	% 1.0
Page  Page		450,000	\$30,381.17	\$32,440.50	\$2,617.57	\$65,439.24	\$30,466.67	\$32,440.50	\$2,621.13	\$65,528.30	\$85.50	\$0.00	\$3.56	\$89.06	0.1%	0.0%	0.0%	0.1%
Pages  P		750,000		\$54,067.50	\$4,362.65	\$109,066.32	\$50,778.67	\$54,067.50	\$4,368.59	\$109,214.76	\$142.50	\$0.00	\$5.94	\$148.44	0.1%	960'0	0.0%	0.1%
December   Property		80,000	\$4,782.67	\$5,767.20	\$439.58	\$10,989.45	\$4,797.87	\$5,767.20	\$440.21	\$11,005.28	\$15.20	\$0.00	\$0.63	\$15.83	0.1%	%0.0	0.0%	0.1%
Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		300,000	\$17,938.67	\$21,627.00	\$1,648.57	\$41,214.24	\$17,995.67	\$21,627.00	\$1,650.94	\$41,273.61	\$57.00	\$0.00	\$2.37	\$59.37	0.1%	0.0%	0.0%	0.1%
Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		400,000	\$23,918.67	\$28,836.00	\$2,198.11	\$54,952.78	\$23,994.67	\$28,836.00	\$2,201.28	\$55,031.95	\$76.00	\$0.00	\$3.17	\$79.17	0.1%	%0.0	0.0%	0.1%
Part		000,000	\$55,878.67	\$43,254.00		\$82,429.86	\$55,992.67	\$45,254.00		\$82,548.61	\$114.00	\$0.00	\$4.75	\$118.75	% TO 0	%0:0 %0:0 %0:0	%0.0 %0.0	0.1% 0.1%
Page		100,000	\$5,515.67	\$7,209.00		\$13,254.86	\$5,534.67	\$7,209.00		\$13,274.66	\$19.00	\$0.00	\$0.80	\$19.80	0.1%	0.0%	0.0%	0.1%
Page		375,000	\$20,687.42	\$27,033.75		\$49,709.55	\$20,758.67	\$27,033.75		\$49,783.77	\$71.25	\$0.00	\$2.97	\$74.22	0.1%	0.0%	0.0%	0.1%
Page		200,000	\$27,583.67	\$36,045.00	\$2,651.19	\$66,279.86	\$27,678.67	\$36,045.00	\$2,655.15	\$66,378.82	\$95.00	\$0.00	\$3.96	\$98.96	0.1%	0.0%	0.0%	0.1%
Pagge         Statistics         Statistics </td <td></td> <td>750,000</td> <td>\$41,376.17</td> <td>\$54,067.50</td> <td>\$3,976.82</td> <td>\$99,420.49</td> <td>\$41,518.67</td> <td>\$54,067.50</td> <td></td> <td>\$99,568.93</td> <td>\$142.50</td> <td>\$0.00</td> <td>\$5.94</td> <td>\$148.44</td> <td>0.1%</td> <td>0.0%</td> <td>%0.0</td> <td>0.1%</td>		750,000	\$41,376.17	\$54,067.50	\$3,976.82	\$99,420.49	\$41,518.67	\$54,067.50		\$99,568.93	\$142.50	\$0.00	\$5.94	\$148.44	0.1%	0.0%	%0.0	0.1%
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March   Marc		000'009	\$31,248.67	\$43,254.00	\$3,104.28	\$77,606.95	\$31,362.67	\$43,254.00	\$3,109.03	\$77,725.70	\$114.00	\$0.00	\$4.75	\$118.75	0.1%	0.0%	0.0%	0.2%
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Page 10 (May 2004)         \$82.50         Channer Chaps           gen (May 2004)         \$83.50         \$83.50         Channer Chaps           gen (May 2004)         \$13.90         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00         \$13.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Present Rates</td><td></td><td>Proposed Rat</td><td>tes Effective Oc</td><td>tober 1, 2018</td><td></td><td>ine Item on Bill</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>						Present Rates		Proposed Rat	tes Effective Oc	tober 1, 2018		ine Item on Bill						
1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879   1879						<u> </u>				⊒i								
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Pages         Str.70         Str.70         Str.70           Pages         Str.70         Str.70         Str.70         Str.70           Pages         Str.70	LIHEAP Enhancement Cha. Renewable Energy Growth 1	rge Program Charge				\$0.81				\$6.86	⊒ ≅	I HEAP Enhancen F. Growth Program	nent Charge					
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State   Stat	Distribution Charge (per kW	Vh)				\$0.00551				\$0.00551								
Claring (part   Claring (par	Operating & Maintenance E	Expense Charge				\$0.00083			Ĺ	\$0,00083								
1979   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978   1978	Operating & Maintenance E	Expense Reconciliation	on Factor			(\$0.00001)				(\$0.00002)								
State   Stat	FY18 CapEx Factor Demar	nd Charge (per kW >	> 200kW)			\$0.87			L	\$0.87	2		į					
Actor of Langes         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0085         \$10,0005         Transmission Adjustment         \$10,0085         \$10,0005         Transmission Adjustment         \$10,0085         \$10,0005         Transmission Adjustment         \$10,0005         \$10,0005         Transmission Adjustment         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,0005         \$10,00	Capex reconcination racto Revenue Decomling Adjust	m tment Factor				\$0.00000			_]	\$0.00184	2	astronnom Energy	y Cital ge					
Control         S000CRS         S000CRS           STOOD STO	Pension Adjustment Factor					(\$0.00085)				(\$0.00085)								
Automate Name and Automated Autom	Storm Fund Replenishment	Factor				\$0.00288				\$0.00288								
Storotist   Stor	Arrearage Management Adj	Justment Factor Renewable Fnerov C	haroe			\$0.00002				\$0,00002								
Page	Net Metering Charge	6	6			\$0.00043				\$0.00043	ď	enewable Energy	Distribution Ch.	arge				
cort         \$5.001159         \$5.001159         \$5.001159         \$5.001159         \$5.001159         \$5.001159         \$5.001159         \$5.001159         \$5.001159         Transhiston Adjustment         \$5.000120         \$5.000220         \$5.000220         \$5.000220         Transhiston Change         \$5.000220         \$5.000220         Transhiston Change         \$5.000220         \$5.000220         Transhiston Change         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220         \$5.000220	Transmission Demand Char.	.ge				\$4.69				\$4.69								
Charge         \$0,000000)         \$0,000000         Transition Charge         Accounty         Transition Charge         Accounty         Ac	Base Transmission Charge					\$0.01159				\$0.01159	Ė	antonionion Adino	***************************************					
Charge         (\$0,00043)         (\$0,00043)         Transition Charge           Charge         \$0,01002         Energy Efficiency Programs           Charge         \$0,01083         \$0,01861         Energy Efficiency Programs           Charge         \$0,00043         \$0,00074         \$0,00074         Supply Services Energy Charge           Charge         \$0,00074         \$0,00074         \$0,00074         \$0,00074         \$0,00074           ge         \$885.60         \$88.80         \$0,00093         \$0,00093         \$0,00093         \$0,00093           charge         \$1,57         \$4.57         \$4.69         \$4.69         \$4.69         \$4.69         \$4.69         \$4.69         \$4.69         \$4.69         \$4.69         \$4.69         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093         \$6.00093 <t< td=""><td>Transmission Uncollectible</td><td>Factor</td><td></td><td></td><td></td><td>\$0.00029</td><td></td><td></td><td></td><td>\$0.00029</td><td>í</td><td>ndismission value</td><td>1100</td><td></td><td></td><td></td><td></td><td></td></t<>	Transmission Uncollectible	Factor				\$0.00029				\$0.00029	í	ndismission value	1100					
Charge         \$0.00004)         \$0.00004)         \$0.00004)         \$0.00004         Buttery Efficiency Programs           Charge         \$0.00850)         \$0.00880         \$0.00880         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.00004         \$0.000004         \$0.000004         \$0.000004         \$0.000	Base Transition Charge					(\$0.00083)				(\$0.00083)	T	ransition Charge						
Declarate   Stanton   Stanton   Declarate   Stanton   Stanto	Fransition Adjustment					(\$0.00004)				(\$0.00004)		2 200						
Section (S0.000830)   S0.00074   Supply Services Energy Charge   S0.00074   S0.00077	Standard Offer Service Base	Charge				\$0.01002				\$0.07861	ŭ.	nergy Eurciency	rrograms					
SOS Administrative Cost Adjustment Factor         \$0.00174         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014         \$0.00014	SOS Adjustment Factor	0				(\$0.00830)				(\$0.00830)	ć		ŧ					
Line float on Bill         \$825.00         \$825.00           Customer Charge         \$0.81         \$0.81           St. Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec	SOS Adminstrative Cost Ad Renewable Energy Standard	djustment Factor 1 Charge				\$0.00174				\$0.00174	á	uppiy services Eil	lergy charge					
Customer Charge         \$82.5.00         \$82.5.00         \$82.5.00         \$82.5.00         \$8.8.5.00         \$8.8.5.00         \$8.8.5.00         \$8.8.5.00         \$8.8.5.00         \$8.8.5.00         \$8.8.5.00         \$8.8.5.00         \$8.8.5.00         \$8.8.5.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00         \$8.9.00	Line Item on Bill	,																
\$56.86 \$66.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.86 \$86.00.0083\$\$  \$50.00.0087 \$50.00.0087 \$80.00.0087 \$80.00.0087 \$80.00.0087 \$80.00.0087 \$80.00.0087 \$80.00.0087 \$80.00.0087 \$80.00.0087 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00.0097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.00097 \$80.000097 \$80.00009 \$80.00007 \$80.00007 \$80.00007 \$80.00007 \$80.00007 \$	Customer Charge					\$825.00				\$825.00								
Sec. 85. 85. 85. 85. 85. 85. 85. 85. 85. 85	LIHEAP Enhancement Cha	nge				\$0.81				\$0.81								
St. 000972 \$0.00972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009972 \$0.009	KE Growth Program Transmission Adiustment					\$80.80				\$86.86								
Exp. \$4.57 \$4.57 \$4.57 \$4.57 \$4.57 \$4.57 \$4.57 \$4.57 \$4.57 \$4.57 \$4.57 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$4.50 \$	Distribution Energy Charge					\$0.00972				\$0.00991								
Pa Se	Distribution Demand Charge	ē.				\$4.57				\$4.57								
Page (20,0000K) (20,000K)	Fransmission Demand Char	rge				\$4.69				\$4.69								
OD SU07209 SU0	Iransition Charge Freezy Efficiency Programs					(\$0.00087)				\$0.00087)								
SO 072008 80.07008	Renewable Energy Distribut	s tion Charge				\$0.00.00				\$0.00690								
	Supply Services Energy Cha	arge				\$0.07209				\$0.07209								

Column (0); per Summany of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 7/1/2018, and Summany of Retail Office Service uniff, R.I.P.U.C. No. 2095, effective 7/1/2018, and Summany of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 7/1/2018 Line (7) Per Att. ASC-3, Page 1, Line (7); Line (9) per Att. ASC-2, Page 1, Column (e), Line (10)

The Narragansett Electric Company
d/b/a National Grid
RIPUC Docket No. 4682
FY 2018 Electric Infrastructure, Safety,
and Reliability Plan Reconciliation
Attachment ASC-4
Page 6 of 6

The Narragansett Electric Company Calculation of Monthly Typical Bill Total Bill Impact of Proposed Rates Applicable to G-62 Rate Customers

			Precent Rates				Drono	Proposed Rates Effective October 1 2018	October 1 20	18		& Increase (Decrease)	(6366)		ď	Increase (Decrease) % of Total Bill	% of Total Bill	
Monthly Power			Delivery	Supply			Delivery	Supply	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	Delivery	Supply	(amara)			Supply		
kW	Hours Use	kWh	Services	Services	GET	Total	Services	Services	GET	Total	Services	Services	GET	Total		Services	GET	Total
000 6	(a)	000000	(b)	(c)	(p)	(e)	(b)	(c)	(p)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)
3,000	200	0000001	\$63,796.89	\$43,254.00	\$4,460.45	\$1.115,1118 \$1.707,0718	\$63,928.89	\$43,254.00	\$4,465.95	\$111,648.84	\$132.00	\$0.00	05.50 51.00	\$137.50	0.1% % % 1.8%	0.0%	0.0%	8 8
7.500	200	150000	\$131.098.89	\$108.135.00	\$9.968.08	\$249.201.97	\$131,428.89	\$12,030.00	\$9.981.83	\$249,545.72	\$330.00	00.08	\$13.75	\$343.75	0.1%	%0.0 0	%0:0 0	8 150
10,000	200	2000000	\$168,488.89	\$144,180.00	\$13,027.87	\$325,696.76	\$168,928.89	\$144,180.00	\$13,046.20	\$326,155.09	\$440.00	\$0.00	\$18.33	\$458.33	0.1%	0.0%	0.0%	0.1%
20,000	200	4000000	\$318,048.89	\$288,360.00	\$25,267.04	\$631,675.93	\$318,928.89	\$288,360.00	\$25,303.71	\$632,592.60	\$880.00	\$0.00	\$36.67	\$916.67	0.1%	0.0%	0.0%	0.1%
3,000	300	000006	\$74,950.89	\$64,881.00	\$5,826.33	\$145,658.22	\$75,148.89	\$64,881.00	\$5,834.58	\$145,864.47	\$198.00	\$0.00	\$8.25	\$206.25	0.1%	0.0%	0.0%	0.1%
2,000	300	1500000	\$112,298.89	\$108,135.00	\$9,184.75	\$229,618.64	\$112,628.89	\$108,135.00	\$9,198.50	\$229,962.39	\$330.00	\$0.00	\$13.75	\$343.75	0.1%	0.0%	0.0%	0.1%
7,500	300	2250000	\$158,983.89	\$162,202.50	\$13,382.77	\$334,569.16	\$159,478.89	\$162,202.50	\$13,403.39	\$335,084.78	\$495.00	\$0.00	\$20.62	\$515.62	0.1%	%0.0 %0.0	%0.0	0.2%
00000	300	300000	\$205,068.89	\$216,2/0.00	\$17,580.79	\$459,519.68	\$206,328.89	\$216,270.00	\$17,608.29	\$440,207.18	\$660.00	\$0.00	\$27.50	\$687.50	0.2% 0.3%	0:0% 0:0%	% O:O 0	0.2%
3,000	300	1200000	\$392,406.69	\$432,340.00	57,572.07	\$170.805.00	\$593,726.69	\$452,340.00	\$7.203.20	\$600,096,70	\$1,320.00	\$0.00	\$23.00	\$1,375.00	0.2%	0.0%	0.0%	0.2%
2,000	400	2000000	\$130,888.89	\$144,180.00	\$11,461.20	\$286,530,09	\$131,328.89	\$144,180.00	\$11.479.54	\$286,988,43	\$440.00	\$0.00	\$18.34	\$458.34	0.2%	%0:0 %0:0	%0:0 %0:0	0.2%
7,500	400	3000000	\$186,868.89	\$216,270.00	\$16,797.46	\$419,936,35	\$187,528.89	\$216,270.00	\$16,824.96	\$420,623.85	\$660.00	\$0.00	\$27.50	\$687.50	0.2%	0.0%	0.0%	0.2%
10.000	400	400000	\$242.848.89	\$288.360.00	\$22.133.71	\$553.342.60	\$243.728.89	\$288.360.00	\$22,170.37	\$554.259.26	\$880.00	80.00	\$36.66	\$916.66	0.2%	%0.0	0.0%	0.2%
20,000	400	8000000	\$466,768,89	\$576,720,00	\$43,478,71	81.086,967.60	\$468,528,89	\$576,720,00		\$1,088,800,93	\$1,760.00	\$0.00	\$73.33	\$1,833,33	0.2%	0.0%	0.0%	0.2%
3,000	200	1500000	\$97,258.89	\$108,135.00	\$8,558.08	\$213,951.97	\$97,588.89	\$108,135.00		\$214,295.72	\$330.00	\$0.00	\$13.75	\$343.75	0.2%	0.0%	0.0%	0.2%
2,000	200	2500000	\$149,478.89	\$180,225.00	\$13,737.66	\$343,441.55	\$150,028.89	\$180,225.00	\$13,760.58	\$344,014.47	\$550.00	\$0.00	\$22.92	\$572.92	0.2%	0.0%	0.0%	0.2%
7,500	200	3750000	\$214,753.89	\$270,337.50	\$20,212.14	\$505,303.53	\$215,578.89	\$270,337.50	\$20,246.52	\$506,162.91	\$825.00	\$0.00	\$34.38	\$859.38	0.2%	0.0%	%0.0	0.2%
10,000	200	2000000	\$280,028.89	\$360,450.00	\$26,686.62	\$667,165.51	\$281,128.89	\$360,450.00	\$26,732.46	\$668,311.35	\$1,100.00	\$0.00	\$45.84	\$1,145.84	0.2%	0.0%	0.0%	0.2%
20,000	200	10000000	\$541,128.89	\$720,900.00		\$1,314,613.43	\$543,328.89	\$720,900.00	\$52,676.21	\$1,316,905.10	\$2,200.00	\$0.00	\$91.67	\$2,291.67	0.2%	0.0%	0.0%	0.2%
3,000	009	1800000	\$108,412.89	\$129,762.00	\$9,923.95	\$248,098.84	\$108,808.89	\$129,762.00	\$9,940.45	\$248,511.34	\$396.00	\$0.00	\$16.50	\$412.50	0.2%	0.0%	0.0%	0.2%
5,000	009	3000000	\$168,068.89	\$216,270.00	\$16,014.12	\$400,353.01	\$168,728.89	\$216,270.00	\$16,041.62	\$401,040.51	\$660.00	\$0.00	\$27.50	\$687.50	0.2%	0.0%	0.0%	0.2%
7,500	000	4500000	\$242,638.89	\$324,405.00	\$23,626.83	\$590,670.72	\$243,628.89	\$324,405.00	\$23,668.08	\$591,701.97	\$990.00	\$0.00	\$41.25	\$1,031.25	0.2%	%0:0 %0:0	0:0% 0:0%	0.2%
20,000	009	12000000	\$517,208.89	\$452,540.00		\$780,988.43	\$518,528.89	\$865,080.00		\$1,545,009.27	\$2,640.00	\$0.00	\$55.00	\$2,750.00	0.2%	0.0% 0.0%	0.0% 0.0%	0.2%
						Present Rates		Proposed R	Proposed Rates Effective October 1, 2018	October 1, 2018		Line Item on Bill						
	i									<u> </u>								
(1) Distribution Customer Charge	omer Charge					\$17,000.00				\$17,000.00	ō I	Customer Charge	Chouse					
	v Growth Prog	ram Charge				\$1.928.08				\$1.928.08	I 2	RE Growth Program	em cua ge					
	Demand Char	ge per kW				\$2.99				\$2.99	D	Distribution Demand Charge	d Charge					
	ge (per kWh)					\$0.00000				\$0.00000								
	ntenance Exper	nse Charge per	KW			\$0.41				\$0.41								
	ntenance Exper	nse Reconciliat	ion Factor			(\$0.00001)				(\$0.00002)								
	tor Demand C.	harge per kW				\$0.72			Ĺ	\$0.72	i		ı					
(9) CapEx Reconcination Factor (10) Descent Decombing Adjustment Ecotor	ation Factor	+ Danton				(\$0.00038)				(\$0.00015)	ď	Distribution Energy Charge	Charge					
	ent Factor	TO THE REAL PROPERTY.				(\$0.00085)				(\$0.00085)								
	enishment Fact	tor				\$0.00288				\$0.00288								
(13) Arrearage Management Adjustment Factor	ement Adjustn	nent Factor	F			\$0.00002				\$0.00002								
	TEE	ewante Lifet gy	CII di Be			\$0.00043				\$0.00043	Re	Renewable Energy Distribution Charge	Distribution Cha.	rge				
(16) Transmission Demand Charge	mand Charge					\$3.40				\$3.40								
(17) Base Transmission Charge	n Charge					\$0.01489				\$0.01489								
(18) Transmission Adjustment Factor (19) Transmission Uncollectible Factor	justment Factor	_ 5				\$0.00242				\$0.00242	Į.	I ransmission Adjustmen	tment					
(20) Base Transition Charge	harge					(\$0.00083)				(\$0.00083)	É							
	ment					(\$0.00004)				(\$0.00004)		ransinon Charge						
(22) Energy Efficiency Program Charge	y Program Cha	rge				\$0.01002				\$0.01002	E	Energy Efficiency Programs	rograms					
(23) Standard Offer Service E (24) SOS Adjustment Factor	ervice Base Ch Factor	arge				\$0.07861				\$0.07861								
24) SOS Adjustrative Cost Adjustment Eactor	ractor ve Cost Adiusti	ment Factor				\$0.00174				\$0.00830)	Sı	Supply Services Energy Charge	ergy Charge					
(26) Renewable Energy Standard Charge	y Standard Ch.	arge				\$0.00004				\$0.0004								
						\$17,000.00				\$17,000.00								
<ol> <li>LIHEAP Enhancement Charge</li> <li>DE Grouth Program</li> </ol>	ement Charge					\$0.81				\$0.81								-
	instment					\$0.01763				\$0.01763								A
(31) Distribution Energy Charge	gy Charge					\$0.00350				\$0.00372								tt
	and Charge					\$4.12				\$4.12								ac
	mand Charge					\$3.40				\$3.40								h
(32) Fransition Charge (33) Fransition Charge	. Programs					(\$0.00087)				\$0.00087)								
	y Distribution	Charge				\$0.00690				\$0.00690								
(35) Supply Services Energy Charge	Snergy Charge					\$0.07209				\$0.07209								ıt . ge

Column (o): per Summary of Retail Delivery Service Rates, R.L.P.U.C., No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service infif, R.L.P.U.C. No. 2095 effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 7/1/2018, and Summary of Rates Standard Offer Service tariff, R.L.P.U.C. No. 2096, effective 7/1/2018
Line (7) per Att. ASC-3, Page 1, Line (9) per Att. ASC-2, Page 1, Column (6), Line (10)