

Division 27-1

Request:

Referring to the response to Division 19-15 (Docket 4770), please clarify whether the Company is affirmatively recommending to the Commission that it proceed on a Rhode Island-only basis for all the Grid Modernization initiatives set forth in Chapter 3 of PST-1 (other than DSCADA & ADMS) if the other jurisdictions do not provide assurance of cost recovery for their share of the multi-jurisdictional costs. If not, please explain what the Company is recommending for each initiative.

Response:

The Company is not affirmatively recommending to the Public Utilities Commission (PUC) that it proceed on a Rhode Island Only basis for all the Grid Modernization initiatives set forth in Schedule PST-1, Chapter 3 – Modern Grid if the other jurisdictions do not provide assurance of cost recovery for their share of the multi-jurisdictional costs. The Company presented both Rhode Island Only and Multi-Jurisdiction scenarios in the Power Sector Transformation (PST) Plan filing to show the significant synergies possible if the scope and schedule of various projects can be coordinated with similarly proposed initiatives in other jurisdictions. The intent of the Company's PST Plan filing is to seek feedback and input in advance of presenting final recommendations with regard to the proposed investment alternatives. The Company is also seeking findings from the PUC regarding whether the Company's proposed PST Provision may be the mechanism by which the Company recovers the costs of any or all categories of proposed PST Plan investment. Following the conclusion of Docket No 4780, the Company plans to file a comprehensive PST Implementation Plan by December 1, 2018. This plan will make affirmative recommendations to the PUC, including whether to proceed on a Rhode Island Only basis for various projects, based on the Company's judgment, status of proposed initiatives in other jurisdictions, and experience in consideration of the feedback received up to and through Docket No. 4780.

(This response is identical to the Company's response to Division 9-1 in Docket No. 4780.)

Division 27-2

Request:

Was it the Company's intention in filing the PST proposal to be setting forth a menu of choices of Grid Modernization initiatives that leave the decision to go forward or not to the Commission? Or is the Company using its judgment and experience to make affirmative decisions about what is reasonably needed to provide high quality distribution service and recommending affirmative action be taken for the Grid Modernization initiatives? Please explain.

Response:

In developing the Power System Transformation (PST) Plan, the Company has used its judgment and experience to present the portfolio of Grid Modernization initiatives the Company believes are necessary to progress the objectives of the State of Rhode Island. The Company's PST Plan filing identifies that the potential for significant synergies exists concerning the implementation of these initiatives if the scope and schedule of various projects can be coordinated with similarly proposed initiatives in other jurisdictions. In filing the PST Plan, the Company's intent was to seek feedback and input from the Public Utilities Commission (PUC) and other stakeholder parties in advance of presenting final recommendations and decisions with regard to the proposed investment alternatives. The Company has also requested that the PUC make findings regarding whether the Company's proposed PST Provision may be the mechanism by which the Company recovers the costs of any or all categories of proposed PST investments. Following the conclusion of Docket No. 4780 and pending the PUC's approval of the PST Provision, the Company intends to file a single comprehensive PST implementation plan by December 1, 2018. This plan will be based on the Company's judgment and experience, status of proposed initiatives in other jurisdictions, and consideration of the PUC's findings and feedback received through Docket No. 4780.

(This response is identical to the Company's response to Division 9-2 in Docket No. 4780.)

Division 27-3

Request:

Referring to Bates page 53 of PST-1 and the following statement: "Modern grid operations require increasing granularity, accuracy, and timeliness of data to achieve benefits associated with advanced systems functionality. GIS is the foundation on which many of these systems are built." Is it the Company's understanding that implementing the GIS Data System Enhancements is or will be an important component of providing electric distribution service within the next three years? If not, please explain why not. If yes, please explain why the Company is not simply going forward with the project much like the Company is doing in its gas business for Gas Business Enablement where it did not obtain regulatory approvals prior to advancement.

Response:

Chapter 3 of the Company's Power Sector Transformation (PST) Plan provides a holistic view of investments to enable a modern grid; GIS Data Enhancement is an important part of the plan. Presenting these investments as a holistic suite provides clarity and transparency for stakeholders in Rhode Island on the overall investment roadmap and associated cost. Although the GIS enhancements proposed will provide benefits within the next three years and will support the efforts for things such as hosting capacity analysis to be posted on the System Data Portal, the key driver for this initiative is the implementation of an Advanced Distribution Management System (ADMS). The Company is seeking findings from the Public Utilities Commission in Docket No. 4780 regarding whether the Company's proposed PST Provision may be the mechanism by which the Company recovers the costs of any or all categories of proposed PST investment, including GIS Data Enhancement and ADMS.

(This response is identical to the Company's response to Division 9-3 in Docket No. 4780.)

Division 27-4

Request:

Does implementing the GIS Data System enhancements without yet commencing implementation of the DSCADA & ADMS project achieve distribution planning, operational, or other benefits prior to implementation of DSCADA & ADMS? If yes, please explain the benefits. If no, please explain why not.

Response:

Yes. The additional data provided by GIS Data Enhancement will be beneficial for distribution planning, including System Data Portal map creation and other asset management activities that utilize the network model. The increased granularity of data is also critical to successful deployment of an Advanced Distribution Management System.

(This response is identical to the Company's response to Division 9-4 in Docket No. 4780.)

Division 27-5

Request:

If the Rhode Island Commission directed the Company to implement the GIS Data System Enhancements set forth in Chapter 3 of Power Sector Transformation PST-1, Bates pages 53-56 for the benefit of Rhode Island and the Company implemented the enhancements, would the GIS system enhancements benefit the Company's distribution affiliates in Massachusetts or New York when implemented? If yes, please identify which affiliates will benefit and how the enhanced system would benefit those affiliates. If no, please explain why not.

Response:

The GIS Data Enhancement project has two elements. One element upgrades the Company's current GIS system and software to accept and manage new data sets (i.e., GIS Data Enhancement (IS)), and the other element creates, captures, and populates the system with this enhanced data (i.e., GIS Data Enhancement (Non-IS)). If the GIS system and software is upgraded in Rhode Island, then it would provide similar benefits in New York and Massachusetts if the operating companies in those jurisdictions choose to move forward with a program to populate the system with the state-specific information.

(This response is identical to the Company's response to Division 9-5 in Docket No. 4780.)

Division 27-6

Request:

Are there Cybersecurity initiatives included in the cost estimate in PST-1 that are so inter-related to other grid modernization initiatives that the Company would recommend that they not be pursued until the related grid modernization initiative(s) are also being implemented? If so, please identify the initiatives that are inter-related. Conversely, are there Cybersecurity initiatives that have value in the context of grid modernization that the Company would recommend proceeding without other grid modernization being implemented? If so, please identify them and explain why they should go forward as self-standing Cybersecurity initiatives.

Response:

All Cybersecurity initiatives included in the costs estimates in Schedule PST-1 are inter-related to the Grid Modernization and Advanced Meter Functionality (AMF) initiatives presented in Schedule PST-1, Chapter 3 and Chapter 4, respectively. These initiatives only have value in the context of Grid Modernization and AMF being implemented in Rhode Island. The Company recommends that these Cybersecurity initiatives not be pursued until the related Grid Modernization initiative(s) are also implemented. The initiatives proposed will deliver the necessary capability to protect and ensure the resiliency of critical company systems and infrastructure deployed as part of Grid Modernization, such as Smart Meters and Grid Devices. The deferral of Cybersecurity initiatives while the Rhode Island Grid Modernization effort is underway leaves the Company at risk of unauthorized access, malware and virus attacks, external attacks, data leakage and loss, and regulatory non-compliance. These initiatives include the following:

- Network Security Services
- Data Security Services
- Identity & Access Management Services
- Threat and Vulnerability Management Services
- Security Operations Center Services
- Host and Endpoint Security
- Security Policy Management Services
- Cryptography Services
- Change & Configuration Management
- Security Awareness & Training Services
- Application Security Services
- Third Party Assurance Services
- Remote Access Services
- Privacy Services

(This response is identical to the Company's response to Division 9-6 in Docket No. 4780.)

Prepared by or under the supervision of: Robert Sheridan

Division 27-7

Request:

If the Rhode Island Commission directed the Company to implement the Cybersecurity enhancements for grid modernization set forth in Section 3.7 of PST-1, Bates pages 61-63 for the benefit of Rhode Island and the Company implemented the enhancements, would the Cybersecurity enhancements benefit the Company's distribution affiliates in Massachusetts or New York when implemented? If yes, please identify which affiliates will benefit and how the Cybersecurity enhancements would benefit those affiliates. If no, please explain why not.

Response:

If the Public Utilities Commission directed the Company to implement the Cybersecurity enhancements for Grid Modernization set forth in Section 3.7 of Schedule PST-1, Chapter 3 – Modern Grid (Bates Pages 61-63 of PST Book 1) for the benefit of Rhode Island and the Company implemented the enhancements, the Cybersecurity enhancement benefits would not benefit the Company's affiliates in Massachusetts or New York. In Section 3.7, "Table 3-20: Cybersecurity Cash Flow Estimate – Rhode Island Only Scenario" illustrates costs for a Rhode Island only deployment. The Cybersecurity enhancements have been scoped to account for necessary capabilities to protect critical company systems and infrastructure in a Rhode Island Only Scenario and do not seek to account for a concurrent initiative in New York or Massachusetts.

(This response is identical to the Company's response to Division 9-7 in Docket No. 4780.)

Division 27-8

Request:

Referring to the discussion relating to advanced analytics in Chapter 3 of PST-1, Bates page 58, it states: "The advanced analytics required to efficiently manage a modern grid required processing massive quantities of data from countless data sources. The Company's compute and storage strategy is based on a hybrid sourcing vision. Currently, the Service Company contracts with external service providers for agility and cost efficiency where appropriate. Benefits of cloud computing include: -- Reduced time to provide needed computing resources through administered governance; -- Quicker delivery of applications and business capabilities; -- Ability to dynamically scale/flex computing resources to meet business demand; and -- Ability to provide infrastructure at competitive costs." Is it the Company's understanding that implementing the advanced analytics is or will be an important component of providing electric distribution service within the next three years? If not, please explain why not. If yes, please explain why the Company is not simply going forward with advanced analytics much like the Company is doing in its gas business for Gas Business Enablement where it did not obtain regulatory approvals prior to advancement.

Response:

Advanced Analytics is an important part of providing electric distribution service now and within the next three years. The Company currently performs analytics on the data currently available. The advanced analytics platform envisioned in the Power Sector Transformation (PST) Plan are associated with utilization of the new data streams from the grid monitoring sensors, advanced meter functionality (AMF), and advanced distribution management system (ADMS) elements of PST Plan. The Company is seeking findings from the Public Utilities Commission in Docket No. 4780 regarding whether the Company's proposed PST Provision may be the mechanism by which the Company recovers the costs of any or all categories of proposed PST investment, including Advanced Analytics, Grid Monitoring Sensors, AMF, and ADMS.

Chapter 3 of the Company's PST Plan provides a holistic view of investments to enable a modern grid; Advanced Analytics is an important part of the plan. Presenting these investments as a holistic suite provides clarity and transparency for stakeholders in Rhode Island on the overall investment roadmap and associated cost.

(This response is identical to the Company's response to Division 9-8 in Docket No. 4780.)

Division 27-9

Request:

If the Rhode Island Commission directed the Company to implement the advanced analytics initiative described in Chapter 3 of PST-1, Bates page 58, for the benefit of Rhode Island and the Company implemented the initiative, would the advanced analytics benefit the Company's distribution affiliates in Massachusetts or New York when implemented? If yes, please identify which affiliates will benefit and how the advanced analytics would benefit those affiliates. If no, please explain why not.

Response:

If the Public Utilities Commission directed the Company to implement the Advanced Analytics initiative described in Schedule PST-1, Chapter 3 – Modern Grid (Bates Page 58 of PST Book 1) for the benefit of Rhode Island and the Company implemented the initiative, the Advanced Analytics benefits would not benefit the Company's affiliates in Massachusetts or New York. In Section 3.5, "Table 3-14: Advanced Analytics Cash Flow Estimate – Rhode Island Only Scenario" illustrates costs for a Rhode Island only deployment (Bates Page 59 of PST Book 1). The Rhode Island-Only Advanced Analytics work has been scoped to account for necessary capabilities in a Rhode Island Only Scenario and does not seek to account for a concurrent initiative in New York or Massachusetts.

(This response is identical to the Company's response to Division 9-9 in Docket No. 4780.)

Division 27-10

Request:

Referring to the response to DIV 19-6 (Docket 4770), the question specifically asked whether “there are any practical impediments to commencing [the System Data Portal project] sooner.” The Company did not directly answer this specific question. Yes or no, are there any practical impediments? If yes, please explain.

Response:

No. The Company is already planning to “commence” the System Data Portal work in Fiscal Year 2019 in accordance with the Company’s System Reliability Procurement (SRP) plan. Progressing the System Data Portal project sooner, beyond the scope of the SRP, is limited by the Company’s ability to secure and train the human resources necessary to perform the additional work.

(This response is identical to the Company’s response to Division 9-10 in Docket No. 4780.)

Division 27-11

Request:

Referring to the response to DIV 19-7 (Docket 4770), the question specifically asked whether “there are any reasons why the System Data Portal cannot be implemented sooner and the costs included in an amended cost of service filed in Docket 4770 that includes these costs in the revenue requirement for the Rate Year in that case.” The Company did not directly answer this specific question. Yes or no, are there any reasons why the costs could not be recovered in the revenue requirement allowed in Docket 4770? If yes, please explain.

Response:

No. If the Public Utilities Commission finds that the costs of the System Data Portal would be more appropriately recovered through base distribution rates, and there is a mechanism for including the initial set up and the on-going costs for the portal in Docket No. 4770 at this stage in the rate case process, the Company does not see any reason why this could not be achieved.

The Company would note, however, that the System Data Portal, along with the rest of the investments in Schedule PST-1, Chapter 3 – Modern Grid of the Company's Power Sector Transformation (PST) Plan, provides a holistic view of investments to enable a modern grid; the System Data Portal is an important part of the PST Plan. Presenting these investments as a holistic suite provides clarity and transparency for stakeholders in Rhode Island on the overall investment roadmap and associated costs. For these reasons, the Company submits that these costs should be recovered through the PST Provision.

(This response is identical to the Company's response to Division 9-11 in Docket No. 4780.)

Division 27-12

Request:

Referring to the response to Division 19-18 (Docket 4770), please explain why the Company is not proposing to follow the same sequence, accounting rules, and methods of charging affiliates for the Gas Business Enablement (GBE) costs as described in the response to DIV 19-18 for Grid Modernization initiatives, if Rhode Island or any other jurisdictions declined to approve the prospective costs requested for the GBE program.

Response:

The Company's response to Division 19-18 in this proceeding was provided consistent with the premise outlined in the request that a standalone Rhode Island Power Sector Transformation (PST) project, originally designed to benefit only Rhode Island customers, was in the future utilized by the Company's affiliates in New York and Massachusetts. This is a different scenario than the Gas Business Enablement Program.

From its inception, the Gas Business Enablement Program was designed as a centralized framework of core front office technology solutions for National Grid's US work, asset, and data management and scheduling solutions coupled with standardized business process changes that will be used by the Rhode Island, New York, and Massachusetts operating companies. The program was designed as a holistic transformation of National Grid's US gas business to replace, update, consolidate, and simplify aging and disparate systems to, among other things, strengthen operational and safety performance and build a platform that supports future growth and customer demands. The Gas Business Enablement Program has been fully scoped and functionality and capabilities will be implemented on a phased approach beginning with Rhode Island in April 2018, followed by Massachusetts, and thereafter New York. Under this phased implementation model, each affiliate company will only begin to incur rental expense on cumulative capital investment, once functionality for a given solution is placed into service.

In contrast, the Grid Modernization projects have been shaped in response to transformation efforts in multiple jurisdictions. These projects are still in their conceptual stages and have been presented in each jurisdiction for review and/or approval considering the varying regulatory schedules. At this point, the scope of these projects can still be increased or decreased in accordance with Public Utilities Commission approvals. Although these projects could be used in the future by other operating companies, at this time they are presented as localized Rhode Island-only projects. As Rhode Island-only projects, project costs will be allocated solely to Rhode Island and would only be reallocated if and when those projects were used by the Company's other affiliates.

(This response is identical to the Company's response to Division 9-12 in Docket No. 4780.)

Division 27-13

Request:

Referring to Appendix 10.2 and 10.3 of PST-2, and Attachment DIV 19-18-1 (Docket 4770), page 3 of 3, please explain why there are Capex and O&M costs from Power Sector Transformation being estimated for incurrence by the gas distribution business, in addition to the costs incurred by the electric distribution business.

Response:

The Company received clarification from the Division of Public Utilities and Carriers that this request relates to Attachment DIV 19-8-1 as opposed to Attachment DIV 19-18-1 as stated, and is responding accordingly.

The capital expenditure and operating and maintenance costs allocated to Narragansett Gas, as shown in Attachment DIV 19-8-1, Page 3 of 96, represent the portion of the Enterprise Service Bus, Data Lake, Advanced Analytics, Telecommunications, and Cybersecurity projects that will benefit Narragansett Gas in addition to Narragansett Electric. For example, some benefits that will accrue to both Narragansett Gas and Narragansett Electric include increased accuracy, consistency, and timely access to data enabling better decision making; robust analytics and reporting capabilities (e.g., predictive analytics, scenario analysis); improved data quality and integrity; protection of sensitive customer personally identifiable information (PII) and energy usage information; and ensure a resilient backbone of security services that can protect the reliable, flexible electric and gas services provided to all customers.

The Company inadvertently allocated a portion of the DSCADA and PI Historian costs to Narragansett Gas. Please see Attachment DIV 27-13-1 through Attachment DIV 27-13-3 (Rhode Island Only scenario) and Attachment DIV 27-13-4 through Attachment DIV 27-13-6 (Multi-Jurisdiction scenario) for the correction to the revenue requirement for the DSCADA and PI Historian initiatives, which are properly allocated to Narragansett Electric only.

(This response is identical to the Company's response to Division 9-13 in Docket No. 4780.)

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 1 of 3

The Narragansett Electric Company
d/b/a National Grid
Power Sector Transformation (PST)
Rhode Island Renewable Energy
Grid Mod Projects Annual Revenue Requirement Summary - RI Only

Line No.		Six Months Ended March 31, 2019	PST Year Ending March 31, 2020	PST Year Ending March 31, 2021	PST Year Ending March 31, 2022
Capex - Electric					
1	Feeder Monitoring Sensor	\$0	\$26,261	\$92,520	\$157,314
2	RTU Separation	\$0	\$30,709	\$129,979	\$218,855
3	Combined Capex Total	\$0	\$56,970	\$222,499	\$376,169
IS Capex - Electric & Gas					
4	Enterprise Service Bus	\$0	\$0	\$0	\$1,769,092
5	Data Lake	\$0	\$152,041	\$290,178	\$268,357
6	PI Historian	\$0	\$49,190	\$93,881	\$86,821
7	Advanced Analytics	\$0	\$515,564	\$1,586,465	\$2,434,763
8	Telecommunications	\$0	\$33,157	\$80,181	\$107,872
9	Cybersecurity	\$0	\$1,509,936	\$3,630,479	\$4,594,897
10	DSCADA	\$0	\$0	\$0	\$0
11	IS Capex Total	\$0	\$2,259,887	\$5,681,184	\$9,261,803
O&M - Electric & Gas					
12	Enterprise Service Bus	\$0	\$801,000	\$1,952,000	\$2,047,000
13	Data Lake	\$0	\$843,000	\$1,214,000	\$1,642,000
14	PI Historian	\$0	\$52,000	\$2,052,000	\$2,052,000
15	Advanced Analytics	\$0	\$108,000	\$1,349,000	\$1,589,000
16	Telecommunications	\$0	\$0	\$1,950,000	\$2,925,000
17	Cybersecurity	\$0	\$8,371,000	\$4,224,000	\$3,368,000
18	DSCADA	\$0	\$436,000	\$0	\$90,000
19	Feeder Monitoring Sensor	\$0	\$0	\$5,000	\$10,000
20	RTU Separation	\$0	\$60,000	\$60,000	\$60,000
21	GIS Data Enhancement (BR)	\$0	\$0	\$1,028,000	\$1,028,000
22	GIS Data Enhancement (IS)	\$3,049,000	\$0	\$0	\$0
23	System Data Portal	\$0	\$700,000	\$700,000	\$700,000
24	O&M Total	\$3,049,000	\$11,371,000	\$14,534,000	\$15,511,000
25	Total Revenue Requirement	\$3,049,000	\$13,687,858	\$20,437,682	\$25,148,972

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 2 of 3

The Narragansett Electric Company
d/b/a National Grid
Power Sector Transformation (PST)
Rhode Island Renewable Energy
Electric Grid Mod Projects Annual Revenue Requirement Summary - RI Only

Line No.		Six Months Ended March 31, 2019	PST Year Ending March 31, 2020	PST Year Ending March 31, 2021	PST Year Ending March 31, 2022
Electric Capex					
1	Feeder Monitoring Sensor	\$0	\$26,261	\$92,520	\$157,314
2	RTU Separation	\$0	\$30,709	\$129,979	\$218,855
3	Electric Capex Total	\$0	\$56,970	\$222,499	\$376,169
IS Capex - Electric Only					
4	Enterprise Service Bus	\$0	\$0	\$0	\$1,146,195
5	Data Lake	\$0	\$98,507	\$188,006	\$173,869
6	PI Historian	\$0	\$49,190	\$93,881	\$86,821
7	Advanced Analytics	\$0	\$334,034	\$1,027,871	\$1,577,483
8	Telecommunications	\$0	\$21,482	\$51,949	\$69,890
9	Cybersecurity	\$0	\$978,288	\$2,352,188	\$2,977,034
10	DSCADA	\$0	\$0	\$0	\$0
11	Electric IS Capex Total	\$0	\$1,481,501	\$3,713,894	\$6,031,292
O&M - Electric Only					
12	Enterprise Service Bus	\$0	\$518,968	\$1,264,701	\$1,326,251
13	Data Lake	\$0	\$546,180	\$786,551	\$1,063,852
14	PI Historian	\$0	\$52,000	\$2,052,000	\$2,052,000
15	Advanced Analytics	\$0	\$69,973	\$874,017	\$1,029,513
16	Telecommunications	\$0	\$0	\$1,263,405	\$1,895,108
17	Cybersecurity	\$0	\$5,423,571	\$2,736,730	\$2,182,127
18	DSCADA	\$0	\$436,000	\$0	\$90,000
19	Feeder Monitoring Sensor	\$0	\$0	\$5,000	\$10,000
20	RTU Separation	\$0	\$60,000	\$60,000	\$60,000
21	GIS Data Enhancement (BR)	\$0	\$0	\$1,028,000	\$1,028,000
22	GIS Data Enhancement (IS)	\$3,049,000	\$0	\$0	\$0
23	System Data Portal	\$0	\$700,000	\$700,000	\$700,000
24	Electric O&M Total	\$3,049,000	\$7,806,692	\$10,770,403	\$11,436,851
25	Total Electric Revenue Requirement	\$3,049,000	\$9,345,163	\$14,706,796	\$17,844,312

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 3 of 3

The Narragansett Electric Company
d/b/a National Grid
Power Sector Transformation (PST)
Rhode Island Renewable Energy
Gas Grid Mod Projects Annual Revenue Requirement Summary - RI Only

<u>Line No.</u>		<u>Six Months Ended March 31, 2019</u>	<u>PST Year Ending March 31, 2020</u>	<u>PST Year Ending March 31, 2021</u>	<u>PST Year Ending March 31, 2022</u>
Gas Capex					
1	Feeder Monitoring Sensor	\$0	\$0	\$0	\$0
2	RTU Separation	\$0	\$0	\$0	\$0
3	Gas Capex Total	\$0	\$0	\$0	\$0
IS Capex - Gas Only					
4	Enterprise Service Bus	\$0	\$0	\$0	\$622,897
5	Data Lake	\$0	\$53,534	\$102,172	\$94,489
6	PI Historian	\$0	\$0	\$0	\$0
7	Advanced Analytics	\$0	\$181,530	\$558,594	\$857,280
8	Telecommunications	\$0	\$11,674	\$28,232	\$37,982
9	Cybersecurity	\$0	\$531,649	\$1,278,292	\$1,617,863
10	DSCADA	\$0	\$0	\$0	\$0
11	Gas IS Capex Total	\$0	\$778,387	\$1,967,289	\$3,230,511
O&M - Gas Only					
12	Enterprise Service Bus	\$0	\$282,032	\$687,299	\$720,749
13	Data Lake	\$0	\$296,820	\$427,449	\$578,148
14	PI Historian	\$0	\$0	\$0	\$0
15	Advanced Analytics	\$0	\$38,027	\$474,983	\$559,487
16	Telecommunications	\$0	\$0	\$686,595	\$1,029,893
17	Cybersecurity	\$0	\$2,947,429	\$1,487,270	\$1,185,873
18	DSCADA	\$0	\$0	\$0	\$0
19	Feeder Monitoring Sensor	\$0	\$0	\$0	\$0
20	RTU Separation	\$0	\$0	\$0	\$0
21	GIS Data Enhancement (BR)	\$0	\$0	\$0	\$0
22	GIS Data Enhancement (IS)	\$0	\$0	\$0	\$0
23	System Data Portal	\$0	\$0	\$0	\$0
24	Gas O&M Total	\$0	\$3,564,308	\$3,763,597	\$4,074,149
25	Total Gas Revenue Requirement	\$0	\$4,342,695	\$5,730,886	\$7,304,660

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Grid Mod RI Only - DSCADA & ADMS
Annual Revenue Requirement Summary

Line No.		Fiscal Year Ending March 31, 2019 (a)	Fiscal Year Ending March 31, 2020 (b)	Fiscal Year Ending March 31, 2021 (c)	Fiscal Year Ending March 31, 2022 (d)
	Electric Operation and Maintenance (O&M) Expenses:				
1	System Data Portal	\$ -	\$ -	\$ -	\$ -
2	Feeder Monitoring Sensors	\$ -	\$ -	\$ -	\$ -
3	RTU Separation	\$ -	\$ -	\$ -	\$ -
4	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
5	DSCADA & ADMS	\$ -	\$ 436,000	\$ -	\$ 90,000
6	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
7	Enterprise Service Bus	\$ -	\$ -	\$ -	\$ -
8	Data Lake	\$ -	\$ -	\$ -	\$ -
9	PI Historian	\$ -	\$ -	\$ -	\$ -
10	Advanced Analytics	\$ -	\$ -	\$ -	\$ -
11	Telecommunications	\$ -	\$ -	\$ -	\$ -
12	Cybersecurity	\$ -	\$ -	\$ -	\$ -
13	Total Electric O&M costs	\$ -	\$ 436,000	\$ -	\$ 90,000
	Sum of Lines 1 through 12				
	Gas Operation and Maintenance (O&M) Expenses:				
14	DSCADA & ADMS	\$ -	\$ -	\$ -	\$ -
15	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
16	Enterprise Service Bus	\$ -	\$ -	\$ -	\$ -
17	Data Lake	\$ -	\$ -	\$ -	\$ -
18	PI Historian	\$ -	\$ -	\$ -	\$ -
19	Advanced Analytics	\$ -	\$ -	\$ -	\$ -
20	Telecommunications	\$ -	\$ -	\$ -	\$ -
21	Cybersecurity	\$ -	\$ -	\$ -	\$ -
22	Total Gas O&M costs	\$ -	\$ -	\$ -	\$ -
	Sum of Lines 14 through 21				
23	Total O&M Expenses	\$ -	\$ 436,000	\$ -	\$ 90,000
	Line 13 + Line 22				
24	Electric Capital Investment:				
25	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2020 Capital Investment		\$0	\$0	\$0
26	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2021 Capital Investment			\$0	\$0
27	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2022 Capital Investment				\$0
28	Total Electric Capital Investment Component of Revenue Requirement	Sum of Lines 25 through 27	\$0	\$0	\$0
29	Gas Capital Investment:				
30	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2020 Capital Investment		\$0	\$0	\$0
31	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2021 Capital Investment			\$0	\$0
32	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2022 Capital Investment				\$0
33	Total Gas Capital Investment Component of Revenue Requirement	Sum of Lines 30 through 32	\$0	\$0	\$0
34	Total Electric Revenue Requirement	Line 13 + Line 28	\$436,000	\$0	\$90,000
35	Total Gas Revenue Requirement	Line 22 + Line 33	\$0	\$0	\$0
36	Total Electric & Gas Revenue Requirement	Line 34 + Line 35	\$ 436,000	\$ -	\$ 90,000

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2020
RI Only Grid Mod - DSCADA & ADMS Electric

Line No.		Fiscal Year Ending March 31, 2020 (a)	Fiscal Year Ending March 31, 2021 (b)	Fiscal Year Ending March 31, 2022 (c)
<u>Estimated Capital Investment</u>				
1	Feeder Monitor Sensors	\$0	\$0	\$0
2	RTU Separation	\$0	\$0	\$0
3	DSCADA & ADMS	\$0	\$0	\$0
4	Total Estimated Capital Investment	Line 1 + Line 2 + Line 3	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>				
5	Total Allowed Capital Included in Rate Base in Current Year	Line 4	\$0	\$0
6	Retirements	Line 4 * 0%	\$0	\$0
7	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b and c) = Prior Year Line 6	\$0	\$0
<u>Change in Net Capital Included in Rate Base</u>				
8	Capital Included in Rate Base	Line 4	\$0	\$0
9	Cost of Removal		\$0	\$0
10	Total Net Plant in Service Including Cost of Removal	Line 7 + Line 9	\$0	\$0
<u>Tax Depreciation</u>				
11	Vintage Year Tax Depreciation:			
12	FY 2020 Spend	Page 3 of 10, Line 21	\$0	\$0
13	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	\$0	\$0
<u>Book Depreciation</u>				
14	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	14.29%	14.29%
15	Book Depreciation	Column (a) = Line 1 * Line 13 * 50%; Column (b and c) = Line 1 * Line 13	\$0	\$0
16	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$0	\$0
17	Total Cumulative Book Depreciation	Line 16	\$0	\$0
<u>Deferred Tax Calculation:</u>				
18	Cumulative Book / Tax Timer	Line 13 - Line 17	\$0	\$0
19	Effective Tax Rate		21.00%	21.00%
20	Deferred Tax Reserve	Line 18 * Line 19	\$0	\$0
21	Less: FY 2020 Federal NOL		\$ -	\$ -
22	Less: Proration Adjustment	Col (a) = Page 8 of 10, Line 40; Col (b) = Page 9 of 10, Line 40; Col (c) = Page 10 of 10, Line 40	\$ -	\$ -
23	Net Deferred Tax Reserve	Sum of Lines 20 through 22	\$0	\$0
<u>Rate Base Calculation:</u>				
24	Cumulative Incremental Capital Included in Rate Base	Line 10	\$ -	\$ -
25	Accumulated Depreciation	- Line 17	\$0	\$0
26	Deferred Tax Reserve	- Line 23	\$0	\$0
27	Year End Rate Base	Sum of Lines 24 through 26	\$ -	\$0
<u>Revenue Requirement Calculation:</u>				
28	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2; Column (b and c) = (Prior Year Line 29 + Current Year Line 39) ÷ 2	\$0	\$0
29	Pre-Tax ROR	1/	8.80%	8.80%
30	Return and Taxes	Line 28 * Line 29	\$0	\$0
31	Book Depreciation	Line 15 - Line 18	\$0	\$0
32	Property Taxes	Tax Rate 3.176% MAL-7 - Columns (b & c) Line 9 * 3.176%	\$0	\$0
33	Annual Revenue Requirement	Sum of Lines 30 through 32	\$0	\$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.2 - Grid Mod Stand Alone

Page 3 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2020 Electric Capital Investments

RI Only Grid Mod - DSCADA & ADMS Electric

Line No.			Fiscal Year Ending <u>March 31, 2020</u> (a)	Fiscal Year Ending <u>March 31, 2021</u> (b)	Fiscal Year Ending <u>March 31, 2022</u> (c)
	<u>Capital Repairs Deduction</u>				
1	Plant Additions	Page 2 of 10, Line 4	\$0		
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%		
3	Capital Repairs Deduction	Line 1 * Line 2	\$0		
	<u>Bonus Depreciation</u>				
4	Plant Additions	Line 1	\$0		
5	Less Capital Repairs Deduction	Line 3	\$0		
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$0		
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%		
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$0		
9	Bonus Depreciation Rate (April 2019 - December 2019)	1 * 75% * 100%	75.00%		
10	Bonus Depreciation Rate (January 2020 - Mar 2020)	1 * 25% * 0%	0.00%		
11	Total Bonus Depreciation Rate	Line 9 + Line 10	75.00%		
12	Bonus Depreciation	Line 8 * Line 11	\$0		
	<u>Remaining Tax Depreciation</u>				
13	Plant Additions	Line 1	\$0		
14	Less Capital Repairs Deduction	Line 3	\$0		
15	Less Bonus Depreciation	Line 12	\$0		
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$0	\$0	\$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	33.330%	44.450%	14.810%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$0	\$0	\$0
19	FY20 Loss incurred due to retirements	Per Tax Department	\$0	\$0	\$0
20	Cost of Removal	Page 2 of 10, Line 9	\$0		
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, and 20	\$0	\$0	\$0

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.2 - Grid Mod Stand Alone

Page 4 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2021

RI Only Grid Mod - DSCADA & ADMS Electric

Line No.		Fiscal Year Ending March 31, 2021 (a)	Fiscal Year Ending March 31, 2022 (b)
<u>Estimated Capital Investment</u>			
1	Feeder Monitor Sensors	\$0	
2	RTU Separation	\$0	
3	DSCADA & ADMS	\$0	
4	Total Estimated Capital Investment	Line 1 + Line 2 + Line 3	\$0
<u>Depreciable Net Capital Included in Rate Base</u>			
5	Total Allowed Capital Included in Rate Base in Current Year	Line 4	\$0
6	Retirements	Line 4 * 0%	\$0
7	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$0
<u>Change in Net Capital Included in Rate Base</u>			
8	Capital Included in Rate Base	Line 4	\$0
9	Cost of Removal	\$0	\$0
10	Total Net Plant in Service Including Cost of Removal	Line 7 + Line 9	\$0
<u>Tax Depreciation</u>			
11	Vintage Year Tax Depreciation:		
12	FY 2021 Spend	Page 5 of 10, Line 21	\$0
13	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	\$0
<u>Book Depreciation</u>			
14	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	14.29%
15	Book Depreciation	Column (a) = Line 1 * Line 13 * 50%; Column (b) = Line 1 * Line 13	\$0
16	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$0
17	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	2.09%
18	Book Depreciation	Column (a) = Line 2 * Line 16 * 50%; Column (b) = Line 2 * Line 16	\$0
19	Cumulative Book Depreciation	Prior Year Line 18 + Current Year Line 17	\$0
20	Total Cumulative Book Depreciation	Line 19 + Line 16	\$0
<u>Deferred Tax Calculation:</u>			
21	Cumulative Book / Tax Timer	Line 13 - Line 20	\$0
22	Effective Tax Rate	21.00%	21.00%
23	Deferred Tax Reserve	Line 21 * Line 22	\$0
24	Less: FY 2021 Federal NOL	\$0	\$0
25	Less: Proration Adjustment	Col (a) = Page 9 of 10, Line 40; Col (b) = Page 10 of 10, Line 40	\$0
26	Net Deferred Tax Reserve	Sum of Lines 23 through 25	\$0
<u>Rate Base Calculation:</u>			
27	Cumulative Incremental Capital Included in Rate Base	Line 10	\$ -
28	Accumulated Depreciation	- Line 20	\$0
29	Deferred Tax Reserve	- Line 26	\$0
30	Year End Rate Base	Sum of Lines 27 through 29	\$ -
<u>Revenue Requirement Calculation:</u>			
31	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2; Column (b) = (Prior Year Line 29 + Current Year Line 29) ÷ 2	\$0.00
32	Pre-Tax ROR	1/	8.80%
33	Return and Taxes	Line 31 * Line 32	\$0
34	Book Depreciation	Line 15 + Line 18	\$0
35	Property Taxes	Tax Rate 3.176% MAL-7 - Columns (b) Line 9 * 3.176%	\$0
36	Annual Revenue Requirement	Sum of Lines 33 through 35	\$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 5 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2021 Electric Capital Investments
RI Only Grid Mod - DSCADA & ADMS Electric

Line No.			Fiscal Year Ending March 31, 2021 (a)	Fiscal Year Ending March 31, 2022 (b)
	<u>Capital Repairs Deduction</u>			
1	Plant Additions	Page 4 of 10, Line 4	\$0	
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%	
3	Capital Repairs Deduction	Line 1 * Line 2	\$0	
	<u>Bonus Depreciation</u>			
4	Plant Additions	Line 1	\$0	
5	Less Capital Repairs Deduction	Line 3	\$0	
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$0	
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%	
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$0	
9	Bonus Depreciation Rate (April 2020 - December 2020)	0%	0.00%	
10	Bonus Depreciation Rate (January 2021 - Mar 2021)	0%	0.00%	
11	Total Bonus Depreciation Rate	Line 9 + Line 10	0.00%	
12	Bonus Depreciation	Line 8 * Line 11	\$0	
	<u>Remaining Tax Depreciation</u>			
13	Plant Additions	Line 1	\$0	
14	Less Capital Repairs Deduction	Line 3	\$0	
15	Less Bonus Depreciation	Line 12	\$0	
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$0	\$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	33.330%	44.450%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$0	\$0
19	FY21 Loss incurred due to retirements	Per Tax Department	\$0	\$0
20	Cost of Removal	Page 4 of 10, Line 9	\$0	\$0
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20	\$0	\$0

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 6 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2022
RI Only Grid Mod - DSCADA & ADMS Electric

Line No.		Fiscal Year Ending March 31, 2022 (a)
<u>Estimated Capital Investment</u>		
1	Feeder Monitor Sensors	\$0
2	RTU Separation	\$0
3	DSCADA & ADMS	\$0
4	Total Estimated Capital Investment	Line 1 + Line 2 + Line 3 \$0
<u>Depreciable Net Capital Included in Rate Base</u>		
5	Total Allowed Capital Included in Rate Base in Current Year	Line 4 \$0
6	Retirements	Line 4 * 0% \$0
7	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5 \$0
<u>Change in Net Capital Included in Rate Base</u>		
8	Capital Included in Rate Base	Line 4 \$0
9	Cost of Removal	\$0
10	Total Net Plant in Service Including Cost of Removal	Line 7 + Line 9 \$0
<u>Tax Depreciation</u>		
11	Vintage Year Tax Depreciation:	
12	FY 2022 Spend	Page 7 of 10, Line 21 \$0
13	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 13 \$0
<u>Book Depreciation</u>		
14	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4770 14.29%
15	Book Depreciation	Column (a) = Line 1 * Line 13 * 50% \$0
16	Cumulative Book Depreciation	Current Year Line 14 \$0
17	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4770 2.09%
18	Book Depreciation	Column (a) = Line 2 * Line 16 * 50% \$0
19	Cumulative Book Depreciation	Current Year Line 16 \$0
20	Total Cumulative Book Depreciation	Line 16 + Line 19 \$0
<u>Deferred Tax Calculation:</u>		
21	Cumulative Book / Tax Timer	Line 13 - Line 20 \$0
22	Effective Tax Rate	21.00%
23	Deferred Tax Reserve	Line 21 * Line 22 \$0
24	Less: FY 2022 Federal NOL	\$0
25	Less: Proration Adjustment	Col (a) = Page 10 of 10, Line 40 \$0
26	Net Deferred Tax Reserve	Sum of Lines 23 through 25 \$0
<u>Rate Base Calculation:</u>		
27	Cumulative Incremental Capital Included in Rate Base	Line 10 \$ -
28	Accumulated Depreciation	- Line 20 \$0
29	Deferred Tax Reserve	- Line 26 \$0
30	Year End Rate Base	Sum of Lines 27 through 29 \$ -
<u>Revenue Requirement Calculation:</u>		
31	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2 \$0
32	Pre-Tax ROR	1/ 8.80%
33	Return and Taxes	Line 31 * Line 32 \$0
34	Book Depreciation	Line 15 + Line 18 \$0
35	Property Taxes	Tax Rate 3.176% MAL-7 \$0
36	Annual Revenue Requirement	Sum of Lines 33 through 35 \$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 7 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2022 Electric Capital Investments
RI Only Grid Mod - DSCADA & ADMS Electric

Line No.		Fiscal Year Ending <u>March 31, 2022</u> (a)
	<u>Capital Repairs Deduction</u>	
1	Plant Additions	Page 6 of 10, Line 4 \$0
2	Capital Repairs Deduction Rate	Per Tax Department 0.00%
3	Capital Repairs Deduction	Line 1 * Line 2 \$0
	<u>Bonus Depreciation</u>	
4	Plant Additions	Line 1 \$0
5	Less Capital Repairs Deduction	Line 3 \$0
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5 \$0
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department 100.00%
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7 \$0
9	Bonus Depreciation Rate (April 2021 - December 2021)	0% 0.00%
10	Bonus Depreciation Rate (January 2022 - Mar 2022)	0% 0.00%
11	Total Bonus Depreciation Rate	Line 9 + Line 10 0.00%
12	Bonus Depreciation	Line 8 * Line 11 \$0
	<u>Remaining Tax Depreciation</u>	
13	Plant Additions	Line 1 \$0
14	Less Capital Repairs Deduction	Line 3 \$0
15	Less Bonus Depreciation	Line 12 \$0
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15 \$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946 33.330%
18	Remaining Tax Depreciation	Line 16 * Line 17 \$0
19	FY22 Loss incurred due to retirements	Per Tax Department \$0
20	Cost of Removal	Page 6 of 10, Line 9 \$0
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20 \$0

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.2 - Grid Mod Stand Alone

Page 8 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Calculation of Fiscal Year 2020 Net Deferred Tax Reserve Electric Proration

RI Only Grid Mod - DSCADA & ADMS Electric

Line No.			(a)= Column (b)	(b)
			Total	Vintage Year March 31, 2020
1	Deferred Tax Subject to Proration			
1	Book Depreciation	Page 2 of 10, Line 15 + Line 18	\$0	\$0
2	Bonus Depreciation	Page 3 of 10, Line 12	\$0	\$0
3	Remaining MACRS Tax Depreciation	Page 3 of 10, Line 18	\$0	\$0
4	FY20 tax (gain)/loss on retirements	Page 3 of 10, Line 19	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$0	\$0
6	Effective Tax Rate		21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$0	\$0
	Deferred Tax Not Subject to Proration			
8	Capital Repairs Deduction	Page 3 of 10, Line 3	\$0	\$0
9	Cost of Removal	Page 3 of 10, Line 20	\$0	\$0
10	Book/Tax Depreciation Timing Difference at 3/31/2020		\$0	\$0
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0
12	Effective Tax Rate		21.00%	21.00%
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$0	\$0
15	Net Operating Loss	Page 2 of 10, Line 21	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$0	\$0
	Allocation of FY 2020 Estimated Federal NOL			
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0
20	Total FY 2020 Federal NOL	Page 2 of 10, Line 21 / 21%	\$0	\$0
21	Allocated FY 2020 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0
22	Allocated FY 2020 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$0	\$0

(i) (j)

		Number of Days in		(k)= Sum of (l)	(l)
		Month	Proration Percentage		
26	Proration Calculation				
26	April 2019	30	91.78%	\$0	\$0
27	May 2019	31	83.29%	\$0	\$0
28	June 2019	30	75.07%	\$0	\$0
29	July 2019	31	66.58%	\$0	\$0
30	August 2019	31	58.08%	\$0	\$0
31	September 2019	30	49.86%	\$0	\$0
32	October 2019	31	41.37%	\$0	\$0
33	November 2019	30	33.15%	\$0	\$0
34	December 2019	31	24.66%	\$0	\$0
35	January 2020	31	16.16%	\$0	\$0
36	February 2020	28	8.49%	\$0	\$0
37	March 2020	31	0.00%	\$0	\$0
38	Total	365		\$0	\$0
39	Deferred Tax Without Proration	Line 25		\$0	\$0
40	Proration Adjustment	Line 38 - Line 39		\$0	\$0

Column Notes:

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

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

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.2 - Grid Mod Stand Alone

Page 9 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Calculation of Fiscal Year 2021 Net Deferred Tax Reserve Electric Proration

RI Only Grid Mod - DSCADA & ADMS Electric

Line No.	Deferred Tax Subject to Proration		(a)=Sum of (b) through (c)	(b) Vintage Year March 31, 2021	(c) Vintage Year March 31, 2020
			Total		
1	Book Depreciation	Col (b) = Page 4 of 10, Line 15 + Line 18 ; Col (c) = Page 2 of 10, Line 15 + Line 18	\$0	\$0	\$0
2	Bonus Depreciation	Page 5 of 10, Line 12	\$0	\$0	
3	Remaining MACRS Tax Depreciation	Col (b) = Page 5 of 10, Line 18 ; Col (c) = Page 3 of 10, Line 18	\$0	\$0	\$0
4	FY21 tax (gain)/loss on retirements	Col (b) = Page 5 of 10, Line 19 ; Col (c) = Page 3 of 10, Line 19	\$0	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$0	\$0	\$0
6	Effective Tax Rate	Per Tax Department	21.00%	21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$0	\$0	\$0
Deferred Tax Not Subject to Proration					
8	Capital Repairs Deduction	Page 7 of 10, Line 3	\$0	\$0	
9	Cost of Removal	Page 7 of 10, Line 20	\$0	\$0	
10	Book/Tax Depreciation Timing Difference at 3/31/2021		\$0	\$0	
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0	
12	Effective Tax Rate		21.00%	21.00%	
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0	
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$0	\$0	\$0
15	Net Operating Loss	Page 4 of 10, Line 24	\$0	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$0	\$0	\$0
Allocation of FY 2021 Estimated Federal NOL					
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0	
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0	
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0	
20	Total FY 2021 Federal NOL	Col (b) = Page 4 of 10, Line 24 / 21%	\$0	\$0	
21	Allocated FY 2021 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0	
22	Allocated FY 2021 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0	
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%	
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0	
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$0	\$0	\$0
		(i)	(j)		
		Number of Days in		(k)= Sum of (l) through (m)	
		Month	Proration Percentage	(l)	(m)
26	April 2020	30	91.78%	\$0	\$0
27	May 2020	31	83.29%	\$0	\$0
28	June 2020	30	75.07%	\$0	\$0
29	July 2020	31	66.58%	\$0	\$0
30	August 2020	31	58.08%	\$0	\$0
31	September 2020	30	49.86%	\$0	\$0
32	October 2020	31	41.37%	\$0	\$0
33	November 2020	30	33.15%	\$0	\$0
34	December 2020	31	24.66%	\$0	\$0
35	January 2021	31	16.16%	\$0	\$0
36	February 2021	28	8.49%	\$0	\$0
37	March 2021	31	0.00%	\$0	\$0
38	Total	365		\$0	\$0
39	Deferred Tax Without Proration	Line 25		\$0	\$0
40	Proration Adjustment	Line 38 - Line 39		\$0	\$0

Column Notes:

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

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

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Fiscal Year 2022 Net Deferred Tax Reserve Electric Proration
RI Only Grid Mod - DSCADA & ADMS Electric

Line No.	Deferred Tax Subject to Proration		(a)=Sum of (b) through (d)	(b) Vintage Year March 31, 2022	(c) Vintage Year March 31, 2021	(d) Vintage Year March 31, 2020
			Total			
1	Book Depreciation	Col (b) = Page 6 of 10, Line 15 + Line 18; Col (c) = Page 4 of 10, Line 15 + Line 18; Col (d) = Page 2 of 10, Line 15 + Line 18	\$0	\$0	\$0	\$0
2	Bonus Depreciation	Page 5 of 10, Line 12	\$0	\$0		
3	Remaining MACRS Tax Depreciation	Col (b) = Page 7 of 10, Line 18; Col (c) = Page 5 of 10, Line 18; Col (d) = Page 3 of 10, Line 18	\$0	\$0	\$0	\$0
4	FY22 tax (gain)/loss on retirements	Col (b) = Page 7 of 10, Line 19; Col (c) = Page 5 of 10, Line 19; Col (d) = Page 3 of 10, Line 19	\$0	\$0	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$0	\$0	\$0	\$0
6	Effective Tax Rate	Per Tax Department	21.00%	21.00%	21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$0	\$0	\$0	\$0
Deferred Tax Not Subject to Proration						
8	Capital Repairs Deduction	Page 7 of 10, Line 3	\$0	\$0		
9	Cost of Removal	Page 7 of 10, Line 20	\$0	\$0		
10	Book/Tax Depreciation Timing Difference at 3/31/2022		\$0	\$0		
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0		
12	Effective Tax Rate		21.00%	21.00%		
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0		
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$0	\$0	\$0	\$0
15	Net Operating Loss	Page 6 of 10, Line 24	\$0	\$0	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$0	\$0	\$0	\$0
Allocation of FY 2022 Estimated Federal NOL						
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0		
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0		
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0		
20	Total FY 2022 Federal NOL	Col (b) = Page 6 of 10, Line 24 / 21%	\$0	\$0		
21	Allocated FY 2022 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0		
22	Allocated FY 2022 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0		
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%		
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0		
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$0	\$0	\$0	\$0

		(i) Number of Days in Month	(j) Proration Percentage	(k)= Sum of (l) through (n)	(l)	(m)	(n)
26	April 2021	30	91.78%	\$0	\$0	\$0	\$0
27	May 2021	31	83.29%	\$0	\$0	\$0	\$0
28	June 2021	30	75.07%	\$0	\$0	\$0	\$0
29	July 2021	31	66.58%	\$0	\$0	\$0	\$0
30	August 2021	31	58.08%	\$0	\$0	\$0	\$0
31	September 2021	30	49.86%	\$0	\$0	\$0	\$0
32	October 2021	31	41.37%	\$0	\$0	\$0	\$0
33	November 2021	30	33.15%	\$0	\$0	\$0	\$0
34	December 2021	31	24.66%	\$0	\$0	\$0	\$0
35	January 2022	31	16.16%	\$0	\$0	\$0	\$0
36	February 2022	28	8.49%	\$0	\$0	\$0	\$0
37	March 2022	31	0.00%	\$0	\$0	\$0	\$0
38	Total	365		\$0	\$0	\$0	\$0
39	Deferred Tax Without Proration	Line 25		\$0	\$0	\$0	\$0
40	Proration Adjustment	Line 38 - Line 39		\$0	\$0	\$0	\$0

Column Notes:

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

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Grid Mod RI Only - PI Historian
Annual Revenue Requirement Summary

Line No.		Fiscal Year Ending March 31, 2019 (a)	Fiscal Year Ending March 31, 2020 (b)	Fiscal Year Ending March 31, 2021 (c)	Fiscal Year Ending March 31, 2022 (d)
	Electric Operation and Maintenance (O&M) Expenses:				
1	System Data Portal	\$ -	\$ -	\$ -	\$ -
2	Feeder Monitoring Sensors	\$ -	\$ -	\$ -	\$ -
3	RTU Separation	\$ -	\$ -	\$ -	\$ -
4	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
5	DSCADA & ADMS	\$ -	\$ -	\$ -	\$ -
6	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
7	Enterprise Service Bus	\$ -	\$ -	\$ -	\$ -
8	Data Lake	\$ -	\$ -	\$ -	\$ -
9	PI Historian	\$ -	\$ 52,000	\$ 2,052,000	\$ 2,052,000
10	Advanced Analytics	\$ -	\$ -	\$ -	\$ -
11	Telecommunications	\$ -	\$ -	\$ -	\$ -
12	Cybersecurity	\$ -	\$ -	\$ -	\$ -
13	Total Electric O&M costs	\$ -	\$ 52,000	\$ 2,052,000	\$ 2,052,000
	Gas Operation and Maintenance (O&M) Expenses:				
14	DSCADA & ADMS	\$ -	\$ -	\$ -	\$ -
15	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
16	Enterprise Service Bus	\$ -	\$ -	\$ -	\$ -
17	Data Lake	\$ -	\$ -	\$ -	\$ -
18	PI Historian	\$ -	\$ -	\$ -	\$ -
19	Advanced Analytics	\$ -	\$ -	\$ -	\$ -
20	Telecommunications	\$ -	\$ -	\$ -	\$ -
21	Cybersecurity	\$ -	\$ -	\$ -	\$ -
22	Total Gas O&M costs	\$ -	\$ -	\$ -	\$ -
23	Total O&M Expenses	\$ -	\$ 52,000	\$ 2,052,000	\$ 2,052,000
	Electric Capital Investment:				
25	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2020 Capital Investment		\$49,190	\$93,881	\$86,821
26	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2021 Capital Investment			\$0	\$0
27	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2022 Capital Investment				\$0
28	Total Electric Capital Investment Component of Revenue Requirement	\$ -	\$49,190	\$93,881	\$86,821
	Gas Capital Investment:				
30	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2020 Capital Investment		\$0	\$0	\$0
31	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2021 Capital Investment			\$0	\$0
32	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2022 Capital Investment				\$0
33	Total Gas Capital Investment Component of Revenue Requirement	\$ -	\$0	\$0	\$0
34	Total Electric Revenue Requirement	\$ -	\$101,190	\$2,145,881	\$2,138,821
35	Total Gas Revenue Requirement	\$ -	\$0	\$0	\$0
36	Total Electric & Gas Revenue Requirement	\$ -	\$ 101,190	\$ 2,145,881	\$ 2,138,821

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2020
RI Only Grid Mod - PI Historian Electric

Line No.		Fiscal Year Ending March 31, 2020 (a)	Fiscal Year Ending March 31, 2021 (b)	Fiscal Year Ending March 31, 2022 (c)
<u>Estimated Capital Investment</u>				
1	Feeder Monitor Sensors	\$0	\$0	\$0
2	RTU Separation	\$0	\$0	\$0
3	PI Historian	\$451,000	\$0	\$0
4	DSCADA & ADMS	\$0	\$0	\$0
5	Total Estimated Capital Investment	\$451,000	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>				
6	Total Allowed Capital Included in Rate Base in Current Year	Line 5	\$451,000	\$0
7	Retirements	Line 4 * 0%	\$0	\$0
8	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b and c) = Prior Year Line 6	\$451,000	\$451,000
<u>Change in Net Capital Included in Rate Base</u>				
9	Capital Included in Rate Base	Line 5	\$451,000	\$0
10	Cost of Removal	\$0	\$0	\$0
11	Total Net Plant in Service Including Cost of Removal	Line 8 + Line 10	\$451,000	\$451,000
<u>Tax Depreciation</u>				
12	Vintage Year Tax Depreciation:			
13	FY 2020 Spend	Page 3 of 10, Line 21	\$375,830	\$50,117
14	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	\$375,830	\$425,947
<u>Book Depreciation</u>				
15	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	14.29%	14.29%
16	Book Depreciation	Column (a) = Line 1 * Line 13 * 50%; Column (b and c) = Line 1 * Line 13	\$32,214	\$64,429
17	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$32,214	\$96,643
18	Total Cumulative Book Depreciation	Line 17	\$32,214	\$96,643
<u>Deferred Tax Calculation:</u>				
19	Cumulative Book / Tax Timer	Line 14 - Line 18	\$343,616	\$329,304
20	Effective Tax Rate		21.00%	21.00%
21	Deferred Tax Reserve	Line 19 * Line 20	\$72,159	\$69,154
22	Less: FY 2020 Federal NOL		\$ -	\$ -
23	Less: Proration Adjustment	Col (a) = Page 8 of 10, Line 40; Col (b) = Page 9 of 10, Line 40; Col (c) = Page 10 of 10, Line 40	\$ (39,177)	\$ 1,632
24	Net Deferred Tax Reserve	Sum of Lines 21 through 23	\$32,982	\$70,786
<u>Rate Base Calculation:</u>				
25	Cumulative Incremental Capital Included in Rate Base	Line 11	\$ 451,000	\$ 451,000
26	Accumulated Depreciation	- Line 18	(\$32,214)	(\$96,643)
27	Deferred Tax Reserve	- Line 24	(\$32,982)	(\$70,786)
28	Year End Rate Base	Sum of Lines 25 through 27	\$ 385,803	\$ 283,572
<u>Revenue Requirement Calculation:</u>				
29	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2; Column (b and c) = (Prior Year Line 29 + Current Year Line 39) ÷ 2	\$192,902	\$334,687
30	Pre-Tax ROR	1/	8.80%	8.80%
31	Return and Taxes	Line 29 * Line 30	\$16,975	\$29,452
32	Book Depreciation	Line 16 - Line 19	\$32,214	\$64,429
1	Annual Revenue Requirement	Sum of Lines 31 through	\$49,190	\$93,881

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.2 - Grid Mod Stand Alone

Page 3 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2020 Electric Capital Investments

RI Only Grid Mod - PI Historian Electric

Line No.			Fiscal Year Ending March 31, 2020 (a)	Fiscal Year Ending March 31, 2021 (b)	Fiscal Year Ending March 31, 2022 (c)
	<u>Capital Repairs Deduction</u>				
1	Plant Additions	Page 2 of 10, Line 5	\$451,000		
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%		
3	Capital Repairs Deduction	Line 1 * Line 2	\$0		
	<u>Bonus Depreciation</u>				
4	Plant Additions	Line 1	\$451,000		
5	Less Capital Repairs Deduction	Line 3	\$0		
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$451,000		
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%		
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$451,000		
9	Bonus Depreciation Rate (April 2019 - December 2019)	1 * 75% * 100%	75.00%		
10	Bonus Depreciation Rate (January 2020 - Mar 2020)	1 * 25% * 0%	0.00%		
11	Total Bonus Depreciation Rate	Line 9 + Line 10	75.00%		
12	Bonus Depreciation	Line 8 * Line 11	\$338,250		
	<u>Remaining Tax Depreciation</u>				
13	Plant Additions	Line 1	\$451,000		
14	Less Capital Repairs Deduction	Line 3	\$0		
15	Less Bonus Depreciation	Line 12	\$338,250		
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$112,750	\$112,750	\$112,750
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	33.33%	44.45%	14.81%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$37,580	\$50,117	\$16,698
19	FY20 Loss incurred due to retirements	Per Tax Department	\$0	\$0	\$0
20	Cost of Removal	Page 2 of 10, Line 10	\$0		
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, and 20	\$375,830	\$50,117	\$16,698

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.2 - Grid Mod Stand Alone

Page 4 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2021

RI Only Grid Mod - PI Historian Electric

Line No.			Fiscal Year Ending March 31, 2021 (a)	Fiscal Year Ending March 31, 2022 (b)
<u>Estimated Capital Investment</u>				
1	Feeder Monitor Sensors		\$0	
2	RTU Separation		\$0	
3	PI Historian		\$0	
4	DSCADA & ADMS		\$0	
5	Total Estimated Capital Investment	Line 1 + Line 2 + Line 4	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>				
6	Total Allowed Capital Included in Rate Base in Current Year	Line 5	\$0	\$0
7	Retirements	Line 4 * 0%	\$0	\$0
8	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$0	\$0
<u>Change in Net Capital Included in Rate Base</u>				
9	Capital Included in Rate Base	Line 5	\$0	\$0
10	Cost of Removal		\$0	\$0
11	Total Net Plant in Service Including Cost of Removal	Line 8 + Line 10	\$0	\$0
<u>Tax Depreciation</u>				
12	Vintage Year Tax Depreciation:			
13	FY 2021 Spend	Page 5 of 10, Line 21	\$0	\$0
14	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	\$0	\$0
<u>Book Depreciation</u>				
15	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	14.29%	14.29%
16	Book Depreciation	Column (a) = Line 1 * Line 13 * 50%; Column (b) = Line 1 * Line 13	\$0	\$0
17	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$0	\$0
18	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	2.09%	2.09%
19	Book Depreciation	Column (a) = Line 2 * Line 16 * 50%; Column (b) = Line 2 * Line 16	\$0	\$0
20	Cumulative Book Depreciation	Prior Year Line 18 + Current Year Line 17	\$0	\$0
21	Total Cumulative Book Depreciation	Line 20 + Line 17	\$0	\$0
<u>Deferred Tax Calculation:</u>				
22	Cumulative Book / Tax Timer	Line 14 - Line 21	\$0	\$0
23	Effective Tax Rate		21.00%	21.00%
24	Deferred Tax Reserve	Line 22 * Line 23	\$0	\$0
25	Less: FY 2021 Federal NOL		\$0	\$0
26	Less: Proration Adjustment	Col (a) = Page 9 of 10, Line 40; Col (b) = Page 10 of 10, Line 40	\$0	\$0
27	Net Deferred Tax Reserve	Sum of Lines 24 through 26	\$0	\$0
<u>Rate Base Calculation:</u>				
28	Cumulative Incremental Capital Included in Rate Base	Line 11	\$ -	\$0
29	Accumulated Depreciation	- Line 21	\$0	\$0
30	Deferred Tax Reserve	- Line 27	\$0	\$0
31	Year End Rate Base	Sum of Lines 28 through 30	\$ -	\$0
<u>Revenue Requirement Calculation:</u>				
32	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2; Column (b) = (Prior Year Line 29 + Current Year Line 29) ÷ 2	\$0.00	\$0
33	Pre-Tax ROR		1/ 8.80%	8.80%
34	Return and Taxes	Line 32 * Line 33	\$0	\$0
35	Book Depreciation	Line 16 + Line 19	\$0	\$0
36	Property Taxes	Tax Rate 3.176% MAL-7 - Columns (b) Line 9 * 3.176%	\$0	\$0
37	Annual Revenue Requirement	Sum of Lines 34 through 36	\$0	\$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 5 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2021 Electric Capital Investments
RI Only Grid Mod - PI Historian Electric

Line No.			Fiscal Year Ending March 31, 2021 (a)	Fiscal Year Ending March 31, 2022 (b)
	<u>Capital Repairs Deduction</u>			
1	Plant Additions	Page 4 of 10, Line 5	\$0	
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%	
3	Capital Repairs Deduction	Line 1 * Line 2	\$0	
	<u>Bonus Depreciation</u>			
4	Plant Additions	Line 1	\$0	
5	Less Capital Repairs Deduction	Line 3	\$0	
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$0	
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%	
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$0	
9	Bonus Depreciation Rate (April 2020 - December 2020)	0%	0.00%	
10	Bonus Depreciation Rate (January 2021 - Mar 2021)	0%	0.00%	
11	Total Bonus Depreciation Rate	Line 9 + Line 10	0.00%	
12	Bonus Depreciation	Line 8 * Line 11	\$0	
	<u>Remaining Tax Depreciation</u>			
13	Plant Additions	Line 1	\$0	
14	Less Capital Repairs Deduction	Line 3	\$0	
15	Less Bonus Depreciation	Line 12	\$0	
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$0	\$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	33.330%	44.450%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$0	\$0
19	FY21 Loss incurred due to retirements	Per Tax Department	\$0	\$0
20	Cost of Removal	Page 4 of 10, Line 10	\$0	\$0
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20	\$0	\$0

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 6 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2022
RI Only Grid Mod - PI Historian Electric

Line No.		Fiscal Year Ending March 31, 2022 (a)
<u>Estimated Capital Investment</u>		
1	Feeder Monitor Sensors	\$0
2	RTU Separation	\$0
3	PI Historian	\$0
4	DSCADA & ADMS	\$0
5	Total Estimated Capital Investment	Line 1 + Line 2 + Line 4 \$0
<u>Depreciable Net Capital Included in Rate Base</u>		
6	Total Allowed Capital Included in Rate Base in Current Year	Line 5 \$0
7	Retirements	Line 4 * 0% \$0
8	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5 \$0
<u>Change in Net Capital Included in Rate Base</u>		
9	Capital Included in Rate Base	Line 5 \$0
10	Cost of Removal	\$0
11	Total Net Plant in Service Including Cost of Removal	Line 8 + Line 10 \$0
<u>Tax Depreciation</u>		
12	Vintage Year Tax Depreciation:	
13	FY 2022 Spend	Page 7 of 10, Line 21 \$0
14	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 13 \$0
<u>Book Depreciation</u>		
15	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4770 14.29%
16	Book Depreciation	Column (a) = Line 1 * Line 13 * 50% \$0
17	Cumulative Book Depreciation	Current Year Line 14 \$0
18	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4770 2.09%
19	Book Depreciation	Column (a) = Line 2 * Line 16 * 50% \$0
20	Cumulative Book Depreciation	Current Year Line 16 \$0
21	Total Cumulative Book Depreciation	Line 17 + Line 20 \$0
<u>Deferred Tax Calculation:</u>		
22	Cumulative Book / Tax Timer	Line 14 - Line 21 \$0
23	Effective Tax Rate	21.00%
24	Deferred Tax Reserve	Line 22 * Line 23 \$0
25	Less: FY 2022 Federal NOL	\$0
26	Less: Proration Adjustment	Col (a) = Page 10 of 10, Line 40 \$0
27	Net Deferred Tax Reserve	Sum of Lines 24 through 26 \$0
<u>Rate Base Calculation:</u>		
28	Cumulative Incremental Capital Included in Rate Base	Line 11 \$ -
29	Accumulated Depreciation	- Line 21 \$0
30	Deferred Tax Reserve	- Line 27 \$0
31	Year End Rate Base	Sum of Lines 28 through 30 \$ -
<u>Revenue Requirement Calculation:</u>		
32	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2 \$0
33	Pre-Tax ROR	1/ 8.80%
34	Return and Taxes	Line 32 * Line 33 \$0
35	Book Depreciation	Line 16 + Line 19 \$0
36	Property Taxes	Tax Rate 3.176% MAL-7 \$0
37	Annual Revenue Requirement	Sum of Lines 34 through 36 \$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.2 - Grid Mod Stand Alone
Page 7 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2022 Electric Capital Investments
RI Only Grid Mod - PI Historian Electric

Line No.		Fiscal Year Ending <u>March 31, 2022</u> (a)
	<u>Capital Repairs Deduction</u>	
1	Plant Additions	Page 6 of 10, Line 5 \$0
2	Capital Repairs Deduction Rate	Per Tax Department 0.00%
3	Capital Repairs Deduction	Line 1 * Line 2 \$0
	<u>Bonus Depreciation</u>	
4	Plant Additions	Line 1 \$0
5	Less Capital Repairs Deduction	Line 3 \$0
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5 \$0
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department 100.00%
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7 \$0
9	Bonus Depreciation Rate (April 2021 - December 2021)	0% 0.00%
10	Bonus Depreciation Rate (January 2022 - Mar 2022)	0% 0.00%
11	Total Bonus Depreciation Rate	Line 9 + Line 10 0.00%
12	Bonus Depreciation	Line 8 * Line 11 \$0
	<u>Remaining Tax Depreciation</u>	
13	Plant Additions	Line 1 \$0
14	Less Capital Repairs Deduction	Line 3 \$0
15	Less Bonus Depreciation	Line 12 \$0
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15 \$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946 33.330%
18	Remaining Tax Depreciation	Line 16 * Line 17 \$0
19	FY22 Loss incurred due to retirements	Per Tax Department \$0
20	Cost of Removal	Page 6 of 10, Line 10 \$0
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20 \$0

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.2 - Grid Mod Stand Alone

Page 8 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Fiscal Year 2020 Net Deferred Tax Reserve Electric Proration
RI Only Grid Mod - PI Historian Electric

Line No.			(a)= Column (b)	(b) Vintage Year
			Total	March 31, 2020
1	Deferred Tax Subject to Proration			
1	Book Depreciation	Page 2 of 10, Line 16 + Line 19	\$32,214	\$32,214
2	Bonus Depreciation	Page 3 of 10, Line 12	(\$338,250)	(\$338,250)
3	Remaining MACRS Tax Depreciation	Page 3 of 10, Line 18	(\$37,580)	(\$37,580)
4	FY20 tax (gain)/loss on retirements	Page 3 of 10, Line 19	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	(\$343,616)	(\$343,616)
6	Effective Tax Rate		21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	(\$72,159)	(\$72,159)
	Deferred Tax Not Subject to Proration			
8	Capital Repairs Deduction	Page 3 of 10, Line 3	\$0	\$0
9	Cost of Removal	Page 3 of 10, Line 20	\$0	\$0
10	Book/Tax Depreciation Timing Difference at 3/31/2020		\$0	\$0
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0
12	Effective Tax Rate		21.00%	21.00%
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0
14	Total Deferred Tax Reserve	Line 7 + Line 13	(\$72,159)	(\$72,159)
15	Net Operating Loss	Page 2 of 10, Line 22	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	(\$72,159)	(\$72,159)
	Allocation of FY 2020 Estimated Federal NOL			
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	(\$343,616)	(\$343,616)
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	(\$343,616)	(\$343,616)
20	Total FY 2020 Federal NOL	Page 2 of 10, Line 22 / 21%	\$0	\$0
21	Allocated FY 2020 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0
22	Allocated FY 2020 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	(\$72,159)	(\$72,159)
		(i) (j)		
	Proration Calculation	<u>Number of Days in</u>		
		<u>Month</u>	<u>Proration Percentage</u>	(k)= Sum of (l) (l)
26	April 2019	30	91.78%	(\$5,519) (\$5,519)
27	May 2019	31	83.29%	(\$5,008) (\$5,008)
28	June 2019	30	75.07%	(\$4,514) (\$4,514)
29	July 2019	31	66.58%	(\$4,003) (\$4,003)
30	August 2019	31	58.08%	(\$3,493) (\$3,493)
31	September 2019	30	49.86%	(\$2,998) (\$2,998)
32	October 2019	31	41.37%	(\$2,488) (\$2,488)
33	November 2019	30	33.15%	(\$1,993) (\$1,993)
34	December 2019	31	24.66%	(\$1,483) (\$1,483)
35	January 2020	31	16.16%	(\$972) (\$972)
36	February 2020	28	8.49%	(\$511) (\$511)
37	March 2020	31	0.00%	\$0 \$0
38	Total	365		(\$32,982) (\$32,982)
39	Deferred Tax Without Proration	Line 25	(\$72,159)	(\$72,159)
40	Proration Adjustment	Line 38 - Line 39	\$39,177	\$39,177

Column Notes:

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

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

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.2 - Grid Mod Stand Alone

Page 9 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Calculation of Fiscal Year 2021 Net Deferred Tax Reserve Electric Proration

RI Only Grid Mod - PI Historian Electric

Line No.	Deferred Tax Subject to Proration		(a)=Sum of (b) through (c)	(b) Vintage Year March 31, 2021	(c) Vintage Year March 31, 2020
			Total		
1	Book Depreciation	Col (b) = Page 4 of 10, Line 16 + Line 19 ;Col (c) = Page 2 of 10, Line 16 + Line 19	\$64,429	\$0	\$64,429
2	Bonus Depreciation	Page 5 of 10, Line 12	\$0	\$0	
3	Remaining MACRS Tax Depreciation	Col (b) = Page 5 of 10, Line 18 ;Col (c) = Page 3 of 10, Line 18	(\$50,117)	\$0	(\$50,117)
4	FY21 tax (gain)/loss on retirements	Col (b) = Page 5 of 10, Line 19 ;Col (c) = Page 3 of 10, Line 19	\$0	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$14,312	\$0	\$14,312
6	Effective Tax Rate	Per Tax Department	21.00%	21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$3,005	\$0	\$3,005
Deferred Tax Not Subject to Proration					
8	Capital Repairs Deduction	Page 7 of 10, Line 3	\$0	\$0	
9	Cost of Removal	Page 7 of 10, Line 20	\$0	\$0	
10	Book/Tax Depreciation Timing Difference at 3/31/2021		\$0	\$0	
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0	
12	Effective Tax Rate		21.00%	21.00%	
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0	
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$3,005	\$0	\$3,005
15	Net Operating Loss	Page 4 of 10, Line 25	\$0	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$3,005	\$0	\$3,005
Allocation of FY 2021 Estimated Federal NOL					
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0	
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0	
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0	
20	Total FY 2021 Federal NOL	Col (b) = Page 4 of 10, Line 25 / 21%	\$0	\$0	
21	Allocated FY 2021 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0	
22	Allocated FY 2021 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0	
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%	
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0	
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$3,005	\$0	\$3,005

(i)

(j)

	Proration Calculation	(i)		(k)= Sum of (l) through (m)	(l)	(m)
		Number of Days in Month	Proration Percentage			
26	April 2020	30	91.78%	\$230	\$0	\$230
27	May 2020	31	83.29%	\$209	\$0	\$209
28	June 2020	30	75.07%	\$188	\$0	\$188
29	July 2020	31	66.58%	\$167	\$0	\$167
30	August 2020	31	58.08%	\$145	\$0	\$145
31	September 2020	30	49.86%	\$125	\$0	\$125
32	October 2020	31	41.37%	\$104	\$0	\$104
33	November 2020	30	33.15%	\$83	\$0	\$83
34	December 2020	31	24.66%	\$62	\$0	\$62
35	January 2021	31	16.16%	\$40	\$0	\$40
36	February 2021	28	8.49%	\$21	\$0	\$21
37	March 2021	31	0.00%	\$0	\$0	\$0
38	Total	365		\$1,374	\$0	\$1,374
39	Deferred Tax Without Proration	Line 25		\$3,005	\$0	\$3,005
40	Proration Adjustment	Line 38 - Line 39		(\$1,632)	\$0	(\$1,632)

Column Notes:

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

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

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Fiscal Year 2022 Net Deferred Tax Reserve Electric Proration
RI Only Grid Mod - PI Historian Electric

Line No.	Deferred Tax Subject to Proration		(a)=Sum of (b) through (d)	(b) Vintage Year March 31, 2022	(c) Vintage Year March 31, 2021	(d) Vintage Year March 31, 2020
			Total			
1	Book Depreciation	Col (b) = Page 6 of 10, Line 16 + Line 19; Col (c) = Page 4 of 10, Line 16 + Line 19; Col (d) = Page 2 of 10, Line 16 + Line 19	\$64,429	\$0	\$0	\$64,429
2	Bonus Depreciation	Page 5 of 10, Line 12	\$0	\$0		
3	Remaining MACRS Tax Depreciation	Col (b) = Page 7 of 10, Line 18; Col (c) = Page 5 of 10, Line 18; Col (d) = Page 3 of 10, Line 18	(\$16,698)	\$0	\$0	(\$16,698)
4	FY22 tax (gain)/loss on retirements	Col (b) = Page 7 of 10, Line 19; Col (c) = Page 5 of 10, Line 19; Col (d) = Page 3 of 10, Line 19	\$0	\$0	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$47,731	\$0	\$0	\$47,731
6	Effective Tax Rate	Per Tax Department	21.00%	21.00%	21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$10,023	\$0	\$0	\$10,023
Deferred Tax Not Subject to Proration						
8	Capital Repairs Deduction	Page 7 of 10, Line 3	\$0	\$0		
9	Cost of Removal	Page 7 of 10, Line 20	\$0	\$0		
10	Book/Tax Depreciation Timing Difference at 3/31/2022		\$0	\$0		
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0		
12	Effective Tax Rate		21.00%	21.00%		
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0		
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$10,023	\$0	\$0	\$10,023
15	Net Operating Loss	Page 6 of 10, Line 25	\$0	\$0	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$10,023	\$0	\$0	\$10,023
Allocation of FY 2022 Estimated Federal NOL						
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0		
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0		
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0		
20	Total FY 2022 Federal NOL	Col (b) = Page 6 of 10, Line 25 / 21%	\$0	\$0		
21	Allocated FY 2022 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0		
22	Allocated FY 2022 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0		
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%		
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0		
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$10,023	\$0	\$0	\$10,023
			(i)	(j)		
			Number of Days in	(k)= Sum of (l)		
			Month	through (n)	(l)	(m)
			Proration Percentage			(n)
26	April 2021	30	91.78%	\$767	\$0	\$767
27	May 2021	31	83.29%	\$696	\$0	\$696
28	June 2021	30	75.07%	\$627	\$0	\$627
29	July 2021	31	66.58%	\$556	\$0	\$556
30	August 2021	31	58.08%	\$485	\$0	\$485
31	September 2021	30	49.86%	\$416	\$0	\$416
32	October 2021	31	41.37%	\$346	\$0	\$346
33	November 2021	30	33.15%	\$277	\$0	\$277
34	December 2021	31	24.66%	\$206	\$0	\$206
35	January 2022	31	16.16%	\$135	\$0	\$135
36	February 2022	28	8.49%	\$71	\$0	\$71
37	March 2022	31	0.00%	\$0	\$0	\$0
38	Total	365		\$4,581	\$0	\$4,581
39	Deferred Tax Without Proration	Line 25		\$10,023	\$0	\$10,023
40	Proration Adjustment	Line 38 - Line 39		(\$5,442)	\$0	(\$5,442)

Column Notes:

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

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 1 of 1

The Narragansett Electric Company
d/b/a National Grid
Power Sector Transformation (PST)
Rhode Island Renewable Energy
Grid Mod Projects Annual Revenue Requirement Summary - Synergy

<u>Line No.</u>		<u>Six Months Ended March 31, 2019</u>	<u>PST Year Ending March 31, 2020</u>	<u>PST Year Ending March 31, 2021</u>	<u>PST Year Ending March 31, 2022</u>
Capex - Electric					
1	Feeder Monitoring Sensor	\$0	\$26,261	\$90,772	\$157,450
2	RTU Separation	\$0	\$30,709	\$129,979	\$218,855
3	Combined Capex Total	\$0	\$56,970	\$220,751	\$376,305
IS Capex - Electric & Gas					
4	Enterprise Service Bus	\$0	\$0	\$0	\$690,204
5	Data Lake	\$0	\$38,174	\$72,857	\$67,378
6	PI Historian	\$0	\$12,325	\$23,522	\$21,753
7	Advanced Analytics	\$0	\$343,346	\$818,728	\$1,024,351
8	Telecommunications	\$0	\$13,088	\$31,650	\$42,581
9	Cybersecurity	\$0	\$431,691	\$1,038,037	\$1,314,878
10	DSCADA	\$0	\$0	\$0	\$0
11	IS Capex Total	\$0	\$838,623	\$1,984,795	\$3,161,144
O&M - Electric & Gas					
12	Enterprise Service Bus	\$0	\$273,000	\$621,000	\$778,000
13	Data Lake	\$0	\$365,000	\$599,000	\$842,000
14	PI Historian	\$0	\$13,000	\$515,000	\$515,000
15	Advanced Analytics	\$0	\$108,000	\$463,000	\$523,000
16	Telecommunications	\$0	\$0	\$656,000	\$983,000
17	Cybersecurity	\$0	\$2,422,000	\$1,238,000	\$962,000
18	DSCADA	\$0	\$436,000	\$0	\$90,000
19	Feeder Monitoring Sensor	\$0	\$0	\$5,000	\$10,000
20	RTU Separation	\$0	\$60,000	\$60,000	\$60,000
21	GIS Data Enhancements (BR)	\$0	\$0	\$1,028,000	\$1,028,000
22	GIS Data Enhancements (IS)	\$427,000	\$0	\$0	\$0
23	System Data Portal	\$0	\$700,000	\$700,000	\$700,000
24	O&M Total	\$427,000	\$4,377,000	\$5,885,000	\$6,491,000
25	Total Revenue Requirement	\$427,000	\$5,272,594	\$8,090,546	\$10,028,449

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 2 of 3

The Narragansett Electric Company
d/b/a National Grid
Power Sector Transformation (PST)
Rhode Island Renewable Energy
Electric Grid Mod Projects Annual Revenue Requirement Summary - Synergy

Line No.		Six Months Ended March 31, 2019	PST Year Ending March 31, 2020	PST Year Ending March 31, 2021	PST Year Ending March 31, 2022
Electric Capex					
1	Feeder Monitoring Sensor	\$0	\$26,261	\$90,772	\$157,450
2	RTU Separation	\$0	\$30,709	\$129,979	\$218,855
3	Electric Capex Total	\$0	\$56,970	\$220,751	\$376,305
IS Capex - Electric Only					
4	Enterprise Service Bus	\$0	\$0	\$0	\$447,183
5	Data Lake	\$0	\$24,733	\$47,204	\$43,654
6	PI Historian	\$0	\$12,325	\$23,522	\$21,753
7	Advanced Analytics	\$0	\$222,454	\$530,454	\$663,677
8	Telecommunications	\$0	\$8,480	\$20,506	\$27,588
9	Cybersecurity	\$0	\$279,692	\$672,544	\$851,909
10	DSCADA	\$0	\$0	\$0	\$0
11	Electric IS Capex Total	\$0	\$547,684	\$1,294,231	\$2,055,765
O&M - Electric Only					
12	Enterprise Service Bus	\$0	\$176,877	\$402,346	\$504,066
13	Data Lake	\$0	\$236,484	\$388,092	\$545,532
14	PI Historian	\$0	\$13,000	\$515,000	\$515,000
15	Advanced Analytics	\$0	\$69,973	\$299,978	\$338,852
16	Telecommunications	\$0	\$0	\$425,022	\$636,886
17	Cybersecurity	\$0	\$1,569,214	\$802,100	\$623,280
18	DSCADA	\$0	\$436,000	\$0	\$90,000
19	Feeder Monitoring Sensor	\$0	\$0	\$5,000	\$10,000
20	RTU Separation	\$0	\$60,000	\$60,000	\$60,000
21	GIS Data Enhancements (BR)	\$0	\$0	\$1,028,000	\$1,028,000
22	GIS Data Enhancements (IS)	\$427,000	\$0	\$0	\$0
23	System Data Portal	\$0	\$700,000	\$700,000	\$700,000
24	Electric O&M Total	\$427,000	\$3,261,547	\$4,625,538	\$5,051,615
25	Total Electric Revenue Requirement	\$427,000	\$3,866,201	\$6,140,520	\$7,483,685

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 3 of 3

The Narragansett Electric Company
d/b/a National Grid
Power Sector Transformation (PST)
Rhode Island Renewable Energy
Gas Grid Mod Projects Annual Revenue Requirement Summary - Synergy

Line No.		Six Months Ended March 31, 2019	PST Year Ending March 31, 2020	PST Year Ending March 31, 2021	PST Year Ending March 31, 2022
Gas Capex					
1	Feeder Monitoring Sensor	\$0	\$0	\$0	\$0
2	RTU Separation	\$0	\$0	\$0	\$0
3	Gas Capex Total	\$0	\$0	\$0	\$0
IS Capex - Gas Only					
4	Enterprise Service Bus	\$0	\$0	\$0	\$243,021
5	Data Lake	\$0	\$13,441	\$25,653	\$23,724
6	PI Historian	\$0	\$0	\$0	\$0
7	Advanced Analytics	\$0	\$120,892	\$288,274	\$360,674
8	Telecommunications	\$0	\$4,608	\$11,144	\$14,993
9	Cybersecurity	\$0	\$151,998	\$365,493	\$462,968
10	DSCADA	\$0	\$0	\$0	\$0
11	Gas IS Capex Total	\$0	\$290,940	\$690,564	\$1,105,380
O&M - Gas Only					
12	Enterprise Service Bus	\$0	\$96,123	\$218,654	\$273,934
13	Data Lake	\$0	\$128,517	\$210,908	\$296,468
14	PI Historian	\$0	\$0	\$0	\$0
15	Advanced Analytics	\$0	\$38,027	\$163,022	\$184,148
16	Telecommunications	\$0	\$0	\$230,978	\$346,114
17	Cybersecurity	\$0	\$852,786	\$435,900	\$338,720
18	DSCADA	\$0	\$0	\$0	\$0
19	Feeder Monitoring Sensor	\$0	\$0	\$0	\$0
20	RTU Separation	\$0	\$0	\$0	\$0
21	GIS Data Enhancements (BR)	\$0	\$0	\$0	\$0
22	GIS Data Enhancements (IS)	\$0	\$0	\$0	\$0
23	System Data Portal	\$0	\$0	\$0	\$0
24	Gas O&M Total	\$0	\$1,115,453	\$1,259,462	\$1,439,385
25	Total Gas Revenue Requirement	\$0	\$1,406,393	\$1,950,026	\$2,544,764

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Grid Synergy - DSCADA & ADMS
Annual Revenue Requirement Summary

Line No.		Fiscal Year Ending March 31, 2019 (a)	Fiscal Year Ending March 31, 2020 (b)	Fiscal Year Ending March 31, 2021 (c)	Fiscal Year Ending March 31, 2022 (d)
	Electric Operation and Maintenance (O&M) Expenses:				
1	System Data Portal	\$ -	\$ -	\$ -	\$ -
2	Feeder Monitoring Sensors	\$ -	\$ -	\$ -	\$ -
3	RTU Separation	\$ -	\$ -	\$ -	\$ -
4	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
5	DSCADA & ADMS	\$ -	\$ 436,000	\$ -	\$ 90,000
6	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
7	Enterprise Service Bus	\$ -	\$ -	\$ -	\$ -
8	Data Lake	\$ -	\$ -	\$ -	\$ -
9	PI Historian	\$ -	\$ -	\$ -	\$ -
10	Advanced Analytics	\$ -	\$ -	\$ -	\$ -
11	Telecommunications	\$ -	\$ -	\$ -	\$ -
12	Cybersecurity	\$ -	\$ -	\$ -	\$ -
13	Total Electric O&M costs	\$ -	\$ 436,000	\$ -	\$ 90,000
	Sum of Lines 1 through 12				
	Gas Operation and Maintenance (O&M) Expenses:				
14	DSCADA & ADMS	\$ -	\$ -	\$ -	\$ -
15	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
16	Enterprise Service Bus	\$ -	\$ -	\$ -	\$ -
17	Data Lake	\$ -	\$ -	\$ -	\$ -
18	PI Historian	\$ -	\$ -	\$ -	\$ -
19	Advanced Analytics	\$ -	\$ -	\$ -	\$ -
20	Telecommunications	\$ -	\$ -	\$ -	\$ -
21	Cybersecurity	\$ -	\$ -	\$ -	\$ -
22	Total Gas O&M costs	\$ -	\$ -	\$ -	\$ -
	Sum of Lines 14 through 21				
23	Total O&M Expenses	\$ -	\$ 436,000	\$ -	\$ 90,000
	Line 13 + Line 22				
24	Electric Capital Investment:				
25	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2020 Capital Investment		\$0	\$0	\$0
26	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2021 Capital Investment			\$0	\$0
27	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2022 Capital Investment				\$0
28	Total Electric Capital Investment Component of Revenue Requirement	Sum of Lines 25 through 27	\$0	\$0	\$0
29	Gas Capital Investment:				
30	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2020 Capital Investment		\$0	\$0	\$0
31	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2021 Capital Investment			\$0	\$0
32	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2022 Capital Investment				\$0
33	Total Gas Capital Investment Component of Revenue Requirement	Sum of Lines 30 through 32	\$0	\$0	\$0
34	Total Electric Revenue Requirement	Line 13 + Line 28	\$436,000	\$0	\$90,000
35	Total Gas Revenue Requirement	Line 22 + Line 33	\$0	\$0	\$0
36	Total Electric & Gas Revenue Requirement	Line 34 + Line 35	\$ 436,000	\$ -	\$ 90,000

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2020
Synergy Grid Mod - DSCADA & ADMS Electric

Line No.		Fiscal Year Ending March 31, 2020 (a)	Fiscal Year Ending March 31, 2021 (b)	Fiscal Year Ending March 31, 2022 (c)
<u>Estimated Capital Investment</u>				
1	Feeder Monitor Sensors	\$0	\$0	\$0
2	RTU Separation	\$0	\$0	\$0
3	DSCADA & ADMS	\$0	\$0	\$0
4	Total Estimated Capital Investment	Line 1 + Line 2	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>				
5	Total Allowed Capital Included in Rate Base in Current Year	Line 4	\$0	\$0
6	Retirements	Line 4 * 0%	\$0	\$0
7	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b and c) = Prior Year Line 6	\$0	\$0
<u>Change in Net Capital Included in Rate Base</u>				
8	Capital Included in Rate Base	Line 4	\$0	\$0
9	Cost of Removal		\$0	\$0
10	Total Net Plant in Service Including Cost of Removal	Line 7 + Line 9	\$0	\$0
<u>Tax Depreciation</u>				
11	Vintage Year Tax Depreciation:			
12	FY 2020 Spend	Page 3 of 10, Line 21	\$0	\$0
13	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	\$0	\$0
<u>Book Depreciation</u>				
14	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	2.89%	2.89%
15	Book Depreciation	Column (a) = Line 1 * Line 13 * 50%; Column (b and c) = Line 1 * Line 13	\$0	\$0
16	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$0	\$0
17	Total Cumulative Book Depreciation	Line 19 + Line 16	\$0	\$0
<u>Deferred Tax Calculation:</u>				
18	Cumulative Book / Tax Timer	Line 13 - Line 17	\$0	\$0
19	Effective Tax Rate		21.00%	21.00%
20	Deferred Tax Reserve	Line 18 * Line 19	\$0	\$0
21	Less: FY 2020 Federal NOL		\$ -	\$ -
22	Less: Proration Adjustment	Col (a) = Page 8 of 10, Line 40; Col (b) = Page 9 of 10, Line 40; Col (c) = Page 10 of 10, Line 40	\$ -	\$ -
23	Net Deferred Tax Reserve	Sum of Lines 20 through 22	\$0	\$0
<u>Rate Base Calculation:</u>				
24	Cumulative Incremental Capital Included in Rate Base	Line 10	\$ -	\$ -
25	Accumulated Depreciation	- Line 17	\$0	\$0
26	Deferred Tax Reserve	- Line 23	\$0	\$0
27	Year End Rate Base	Sum of Lines 24 through 26	\$ -	\$0
<u>Revenue Requirement Calculation:</u>				
28	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2; Column (b and c) = (Prior Year Line 29 + Current Year Line 39) ÷ 2	\$0	\$0
29	Pre-Tax ROR	1/	8.80%	8.80%
30	Return and Taxes	Line 28 * Line 29	\$0	\$0
31	Book Depreciation	Line 15 - Line 18	\$0	\$0
32	Annual Revenue Requirement	#REF!	\$0	\$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 3 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2020 Electric Capital Investments
Synergy Grid Mod - DSCADA & ADMS Electric

Line No.			Fiscal Year Ending March 31, 2020 (a)	Fiscal Year Ending March 31, 2021 (b)	Fiscal Year Ending March 31, 2022 (c)
	<u>Capital Repairs Deduction</u>				
1	Plant Additions	Page 2 of 10, Line 4	\$0		
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%		
3	Capital Repairs Deduction	Line 1 * Line 2	\$0		
	<u>Bonus Depreciation</u>				
4	Plant Additions	Line 1	\$0		
5	Less Capital Repairs Deduction	Line 3	\$0		
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$0		
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%		
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$0		
9	Bonus Depreciation Rate (April 2019 - December 2019)	1 * 75% * 0%	0.00%		
10	Bonus Depreciation Rate (January 2020 - Mar 2020)	1 * 25% * 0%	0.00%		
11	Total Bonus Depreciation Rate	Line 9 + Line 10	0.00%		
12	Bonus Depreciation	Line 8 * Line 11	\$0		
	<u>Remaining Tax Depreciation</u>				
13	Plant Additions	Line 1	\$0		
14	Less Capital Repairs Deduction	Line 3	\$0		
15	Less Bonus Depreciation	Line 12	\$0		
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$0	\$0	\$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	7.219%	6.677%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$0	\$0	\$0
19	FY20 Loss incurred due to retirements	Per Tax Department	\$0	\$0	\$0
20	Cost of Removal	Page 2 of 10, Line 9	\$0		
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, and 20	\$0	\$0	\$0

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.3 - Grid Mod Shared

Page 4 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2021

Synergy Grid Mod - DSCADA & ADMS Electric

Line No.		Fiscal Year Ending March 31, 2021 (a)	Fiscal Year Ending March 31, 2022 (b)
<u>Estimated Capital Investment</u>			
1	Feeder Monitor Sensors	\$0	
2	RTU Separation	\$0	
3	DSCADA & ADMS	\$0	
4	Total Estimated Capital Investment	Line 1 + Line 2	\$0
<u>Depreciable Net Capital Included in Rate Base</u>			
5	Total Allowed Capital Included in Rate Base in Current Year	Line 4	\$0
6	Retirements	Line 4 * 0%	\$0
7	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$0
<u>Change in Net Capital Included in Rate Base</u>			
8	Capital Included in Rate Base	Line 4	\$0
9	Cost of Removal	\$0	\$0
10	Total Net Plant in Service Including Cost of Removal	Line 7 + Line 9	\$0
<u>Tax Depreciation</u>			
11	Vintage Year Tax Depreciation:		
12	FY 2021 Spend	Page 5 of 10, Line 21	\$0
13	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	\$0
<u>Book Depreciation</u>			
14	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	2.89%
15	Book Depreciation	Column (a) = Line 1 * Line 13 * 50%; Column (b) = Line 1 * Line 13	\$0
16	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$0
17	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	2.09%
18	Book Depreciation	Column (a) = Line 2 * Line 16 * 50%; Column (b) = Line 2 * Line 16	\$0
19	Cumulative Book Depreciation	Prior Year Line 18 + Current Year Line 17	\$0
20	Total Cumulative Book Depreciation	Line 19 + Line 16	\$0
<u>Deferred Tax Calculation:</u>			
21	Cumulative Book / Tax Timer	Line 13 - Line 20	\$0
22	Effective Tax Rate	21.00%	21.00%
23	Deferred Tax Reserve	Line 21 * Line 22	\$0
24	Less: FY 2021 Federal NOL	\$0	\$0
25	Less: Proration Adjustment	Col (a) = Page 9 of 10, Line 40; Col (b) = Page 10 of 10, Line 40	\$0
26	Net Deferred Tax Reserve	Sum of Lines 23 through 25	\$0
<u>Rate Base Calculation:</u>			
27	Cumulative Incremental Capital Included in Rate Base	Line 10	\$ -
28	Accumulated Depreciation	- Line 20	\$0
29	Deferred Tax Reserve	- Line 26	\$0
30	Year End Rate Base	Sum of Lines 27 through 29	\$ -
<u>Revenue Requirement Calculation:</u>			
31	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2; Column (b) = (Prior Year Line 29 + Current Year Line 29) ÷ 2	\$0.00
32	Pre-Tax ROR	1/	8.80%
33	Return and Taxes	Line 31 * Line 32	\$0
34	Book Depreciation	Line 15 + Line 18	\$0
35	Property Taxes	Tax Rate 3.176% MAL-7 - Columns (b) Line 9 * 3.176%	\$0
36	Annual Revenue Requirement	Sum of Lines 33 through 35	\$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 5 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2021 Electric Capital Investments
Synergy Grid Mod - DSCADA & ADMS Electric

Line No.			Fiscal Year Ending March 31, 2021 (a)	Fiscal Year Ending March 31, 2022 (b)
	<u>Capital Repairs Deduction</u>			
1	Plant Additions	Page 4 of 10, Line 4	\$0	
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%	
3	Capital Repairs Deduction	Line 1 * Line 2	\$0	
	<u>Bonus Depreciation</u>			
4	Plant Additions	Line 1	\$0	
5	Less Capital Repairs Deduction	Line 3	\$0	
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$0	
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%	
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$0	
9	Bonus Depreciation Rate (April 2020 - December 2020)	0%	0.00%	
10	Bonus Depreciation Rate (January 2021 - Mar 2021)	0%	0.00%	
11	Total Bonus Depreciation Rate	Line 9 + Line 10	0.00%	
12	Bonus Depreciation	Line 8 * Line 11	\$0	
	<u>Remaining Tax Depreciation</u>			
13	Plant Additions	Line 1	\$0	
14	Less Capital Repairs Deduction	Line 3	\$0	
15	Less Bonus Depreciation	Line 12	\$0	
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$0	\$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%	7.219%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$0	\$0
19	FY21 Loss incurred due to retirements	Per Tax Department	\$0	\$0
20	Cost of Removal	Page 4 of 10, Line 9	\$0	\$0
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20	\$0	\$0

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 6 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2022
Synergy Grid Mod - DSCADA & ADMS Electric

Line No.		Fiscal Year Ending March 31, 2022 (a)
<u>Estimated Capital Investment</u>		
1	Feeder Monitor Sensors	\$0
2	RTU Separation	\$0
3	DSCADA & ADMS	\$0
4	Total Estimated Capital Investment	Line 1 + Line 2 \$0
<u>Depreciable Net Capital Included in Rate Base</u>		
5	Total Allowed Capital Included in Rate Base in Current Year	Line 4 \$0
6	Retirements	Line 4 * 0% \$0
7	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5 \$0
<u>Change in Net Capital Included in Rate Base</u>		
8	Capital Included in Rate Base	Line 4 \$0
9	Cost of Removal	\$0
10	Total Net Plant in Service Including Cost of Removal	Line 7 + Line 9 \$0
<u>Tax Depreciation</u>		
11	Vintage Year Tax Depreciation:	
12	FY 2022 Spend	Page 7 of 10, Line 21 \$0
13	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 13 \$0
<u>Book Depreciation</u>		
14	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4770 2.89%
15	Book Depreciation	Column (a) = Line 1 * Line 13 * 50% \$0
16	Cumulative Book Depreciation	Current Year Line 14 \$0
17	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4770 2.09%
18	Book Depreciation	Column (a) = Line 2 * Line 16 * 50% \$0
19	Cumulative Book Depreciation	Current Year Line 16 \$0
20	Total Cumulative Book Depreciation	Line 16 + Line 19 \$0
<u>Deferred Tax Calculation:</u>		
21	Cumulative Book / Tax Timer	Line 13 - Line 20 \$0
22	Effective Tax Rate	21.00% \$0
23	Deferred Tax Reserve	Line 21 * Line 22 \$0
24	Less: FY 2022 Federal NOL	\$0
25	Less: Proration Adjustment	Col (a) = Page 10 of 10, Line 40 \$0
26	Net Deferred Tax Reserve	Sum of Lines 23 through 25 \$0
<u>Rate Base Calculation:</u>		
27	Cumulative Incremental Capital Included in Rate Base	Line 10 \$ -
28	Accumulated Depreciation	- Line 20 \$0
29	Deferred Tax Reserve	- Line 26 \$0
30	Year End Rate Base	Sum of Lines 27 through 29 \$ -
<u>Revenue Requirement Calculation:</u>		
31	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2 \$0
32	Pre-Tax ROR	1/ 8.80% \$0
33	Return and Taxes	Line 31 * Line 32 \$0
34	Book Depreciation	Line 15 + Line 18 \$0
35	Property Taxes	Tax Rate 3.176% MAL-7 \$0
36	Annual Revenue Requirement	Sum of Lines 33 through 35 \$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 7 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2022 Electric Capital Investments
Synergy Grid Mod - DSCADA & ADMS Electric

Line No.			Fiscal Year Ending <u>March 31, 2022</u> (a)
	<u>Capital Repairs Deduction</u>		
1	Plant Additions	Page 6 of 10, Line 4	\$0
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%
3	Capital Repairs Deduction	Line 1 * Line 2	\$0
	<u>Bonus Depreciation</u>		
4	Plant Additions	Line 1	\$0
5	Less Capital Repairs Deduction	Line 3	\$0
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$0
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$0
9	Bonus Depreciation Rate (April 2021 - December 2021)	0%	0.00%
10	Bonus Depreciation Rate (January 2022 - Mar 2022)	0%	0.00%
11	Total Bonus Depreciation Rate	Line 9 + Line 10	0.00%
12	Bonus Depreciation	Line 8 * Line 11	\$0
	<u>Remaining Tax Depreciation</u>		
13	Plant Additions	Line 1	\$0
14	Less Capital Repairs Deduction	Line 3	\$0
15	Less Bonus Depreciation	Line 12	\$0
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	3.750%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$0
19	FY22 Loss incurred due to retirements	Per Tax Department	\$0
20	Cost of Removal	Page 6 of 10, Line 9	\$0
		Sum of Lines 3, 12, 18, 19, and 20	\$0
21	Total Tax Depreciation and Repairs Deduction		\$0

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.3 - Grid Mod Shared

Page 8 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Calculation of Fiscal Year 2020 Net Deferred Tax Reserve Electric Proration

Synergy Grid Mod - DSCADA & ADMS Electric

Line No.			(a)= Column (b)	(b)
			Total	Vintage Year March 31, 2020
1	Deferred Tax Subject to Proration			
1	Book Depreciation	Page 2 of 10, Line 15 + Line 18	\$0	\$0
2	Bonus Depreciation	Page 3 of 10, Line 12	\$0	\$0
3	Remaining MACRS Tax Depreciation	Page 3 of 10, Line 18	\$0	\$0
4	FY20 tax (gain)/loss on retirements	Page 3 of 10, Line 19	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$0	\$0
6	Effective Tax Rate		21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$0	\$0
	Deferred Tax Not Subject to Proration			
8	Capital Repairs Deduction	Page 3 of 10, Line 3	\$0	\$0
9	Cost of Removal	Page 3 of 10, Line 20	\$0	\$0
10	Book/Tax Depreciation Timing Difference at 3/31/2020		\$0	\$0
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0
12	Effective Tax Rate		21.00%	21.00%
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$0	\$0
15	Net Operating Loss	Page 2 of 10, Line 21	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$0	\$0
	Allocation of FY 2020 Estimated Federal NOL			
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0
20	Total FY 2020 Federal NOL	Page 2 of 10, Line 21 / 21%	\$0	\$0
21	Allocated FY 2020 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0
22	Allocated FY 2020 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$0	\$0

(i)

(j)

		Number of Days in		(k)= Sum of (l)	(l)
		Month	Proration Percentage		
26	Proration Calculation				
26	April 2019	30	91.78%	\$0	\$0
27	May 2019	31	83.29%	\$0	\$0
28	June 2019	30	75.07%	\$0	\$0
29	July 2019	31	66.58%	\$0	\$0
30	August 2019	31	58.08%	\$0	\$0
31	September 2019	30	49.86%	\$0	\$0
32	October 2019	31	41.37%	\$0	\$0
33	November 2019	30	33.15%	\$0	\$0
34	December 2019	31	24.66%	\$0	\$0
35	January 2020	31	16.16%	\$0	\$0
36	February 2020	28	8.49%	\$0	\$0
37	March 2020	31	0.00%	\$0	\$0
38	Total	365		\$0	\$0
39	Deferred Tax Without Proration	Line 25		\$0	\$0
40	Proration Adjustment	Line 38 - Line 39		\$0	\$0

Column Notes:

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

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

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 9 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Fiscal Year 2021 Net Deferred Tax Reserve Electric Proration
Synergy Grid Mod - DSCADA & ADMS Electric

Line No.	Deferred Tax Subject to Proration		(a)=Sum of (b) through (c)	(b) Vintage Year March 31, 2021	(c) Vintage Year March 31, 2020
			Total		
1	Book Depreciation	Col (b) = Page 4 of 10, Line 15 + Line 18 ; Col (c) = Page 2 of 10, Line 15 + Line 18 Page 5 of 10, Line 12	\$0	\$0	\$0
2	Bonus Depreciation		\$0	\$0	
3	Remaining MACRS Tax Depreciation	Col (b) = Page 5 of 10, Line 18 ; Col (c) = Page 3 of 10, Line 18	\$0	\$0	\$0
4	FY21 tax (gain)/loss on retirements	Col (b) = Page 5 of 10, Line 19 ; Col (c) = Page 3 of 10, Line 19	\$0	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$0	\$0	\$0
6	Effective Tax Rate	Per Tax Department	21.00%	21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$0	\$0	\$0
Deferred Tax Not Subject to Proration					
8	Capital Repairs Deduction	Page 7 of 10, Line 3	\$0	\$0	
9	Cost of Removal	Page 7 of 10, Line 20	\$0	\$0	
10	Book/Tax Depreciation Timing Difference at 3/31/2021		\$0	\$0	
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0	
12	Effective Tax Rate		21.00%	21.00%	
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0	
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$0	\$0	\$0
15	Net Operating Loss	Page 4 of 10, Line 24	\$0	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$0	\$0	\$0
Allocation of FY 2021 Estimated Federal NOL					
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0	
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0	
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0	
20	Total FY 2021 Federal NOL	Col (b) = Page 4 of 10, Line 24 / 21%	\$0	\$0	
21	Allocated FY 2021 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0	
22	Allocated FY 2021 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0	
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%	
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0	
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$0	\$0	\$0
		(i) Number of Days in Month	(j) Proration Percentage	(k)= Sum of (l) through (m)	(l) (m)
26	April 2020	30	91.78%	\$0	\$0
27	May 2020	31	83.29%	\$0	\$0
28	June 2020	30	75.07%	\$0	\$0
29	July 2020	31	66.58%	\$0	\$0
30	August 2020	31	58.08%	\$0	\$0
31	September 2020	30	49.86%	\$0	\$0
32	October 2020	31	41.37%	\$0	\$0
33	November 2020	30	33.15%	\$0	\$0
34	December 2020	31	24.66%	\$0	\$0
35	January 2021	31	16.16%	\$0	\$0
36	February 2021	28	8.49%	\$0	\$0
37	March 2021	31	0.00%	\$0	\$0
38	Total	365		\$0	\$0
39	Deferred Tax Without Proration	Line 25		\$0	\$0
40	Proration Adjustment	Line 38 - Line 39		\$0	\$0

Column Notes:

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

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.3 - Grid Mod Shared

Page 10 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Calculation of Fiscal Year 2022 Net Deferred Tax Reserve Electric Proration

Synergy Grid Mod - DSCADA & ADMS Electric

Line No.	Deferred Tax Subject to Proration		(a)=Sum of (b) through (d)	(b) Vintage Year March 31, 2022	(c) Vintage Year March 31, 2021	(d) Vintage Year March 31, 2020
			Total			
1	Book Depreciation	Col (b) = Page 6 of 10, Line 15 + Line 18; Col (c) = Page 4 of 10, Line 15 + Line 18; Col (d) = Page 2 of 10, Line 15 + Line 18	\$0	\$0	\$0	\$0
2	Bonus Depreciation	Page 5 of 10, Line 12	\$0	\$0		
3	Remaining MACRS Tax Depreciation	Col (b) = Page 7 of 10, Line 18; Col (c) = Page 5 of 10, Line 18; Col (d) = Page 3 of 10, Line 18	\$0	\$0	\$0	\$0
4	FY22 tax (gain)/loss on retirements	Col (b) = Page 7 of 10, Line 19; Col (c) = Page 5 of 10, Line 19; Col (d) = Page 3 of 10, Line 19	\$0	\$0	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$0	\$0	\$0	\$0
6	Effective Tax Rate	Per Tax Department	21.00%	21.00%	21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$0	\$0	\$0	\$0
Deferred Tax Not Subject to Proration						
8	Capital Repairs Deduction	Page 7 of 10, Line 3	\$0	\$0		
9	Cost of Removal	Page 7 of 10, Line 20	\$0	\$0		
10	Book/Tax Depreciation Timing Difference at 3/31/2022		\$0	\$0		
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0		
12	Effective Tax Rate		21.00%	21.00%		
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0		
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$0	\$0	\$0	\$0
15	Net Operating Loss	Page 6 of 10, Line 24	\$0	\$0	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$0	\$0	\$0	\$0
Allocation of FY 2022 Estimated Federal NOL						
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0		
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0		
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0		
20	Total FY 2022 Federal NOL	Col (b) = Page 6 of 10, Line 24 / 21%	\$0	\$0		
21	Allocated FY 2022 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0		
22	Allocated FY 2022 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0		
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%		
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0		
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$0	\$0	\$0	\$0

Line No.	Proration Calculation	(i) Number of Days in Month	(j) Proration Percentage	(k)= Sum of (l) through (n)	(l)	(m)	(n)
26	April 2021	30	91.78%	\$0	\$0	\$0	\$0
27	May 2021	31	83.29%	\$0	\$0	\$0	\$0
28	June 2021	30	75.07%	\$0	\$0	\$0	\$0
29	July 2021	31	66.58%	\$0	\$0	\$0	\$0
30	August 2021	31	58.08%	\$0	\$0	\$0	\$0
31	September 2021	30	49.86%	\$0	\$0	\$0	\$0
32	October 2021	31	41.37%	\$0	\$0	\$0	\$0
33	November 2021	30	33.15%	\$0	\$0	\$0	\$0
34	December 2021	31	24.66%	\$0	\$0	\$0	\$0
35	January 2022	31	16.16%	\$0	\$0	\$0	\$0
36	February 2022	28	8.49%	\$0	\$0	\$0	\$0
37	March 2022	31	0.00%	\$0	\$0	\$0	\$0
38	Total	365		\$0	\$0	\$0	\$0
39	Deferred Tax Without Proration	Line 25		\$0	\$0	\$0	\$0
40	Proration Adjustment	Line 38 - Line 39		\$0	\$0	\$0	\$0

Column Notes:

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

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

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Grid Mod Synergy - PI Historian
Annual Revenue Requirement Summary

Synergy Grid

Line No.		Fiscal Year Ending March 31, 2019 (a)	Fiscal Year Ending March 31, 2020 (b)	Fiscal Year Ending March 31, 2021 (c)	Fiscal Year Ending March 31, 2022 (d)
	Electric Operation and Maintenance (O&M) Expenses:				
1	System Data Portal	\$ -	\$ -	\$ -	\$ -
2	Feeder Monitoring Sensors	\$ -	\$ -	\$ -	\$ -
3	RTU Separation	\$ -	\$ -	\$ -	\$ -
4	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
5	DSCADA & ADMS	\$ -	\$ -	\$ -	\$ -
6	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
7	Enterprise Service Bus	\$ -	\$ -	\$ -	\$ -
8	Data Lake	\$ -	\$ -	\$ -	\$ -
9	PI Historian	\$ -	\$ 13,000	\$ 515,000	\$ 515,000
10	Advanced Analytics	\$ -	\$ -	\$ -	\$ -
11	Telecommunications	\$ -	\$ -	\$ -	\$ -
12	Cybersecurity	\$ -	\$ -	\$ -	\$ -
13	Total Electric O&M costs	\$ -	\$ 13,000	\$ 515,000	\$ 515,000
	Gas Operation and Maintenance (O&M) Expenses:				
14	DSCADA & ADMS	\$ -	\$ -	\$ -	\$ -
15	GIS Data Enhancement	\$ -	\$ -	\$ -	\$ -
16	Enterprise Service Bus	\$ -	\$ -	\$ -	\$ -
17	Data Lake	\$ -	\$ -	\$ -	\$ -
18	PI Historian	\$ -	\$ -	\$ -	\$ -
19	Advanced Analytics	\$ -	\$ -	\$ -	\$ -
20	Telecommunications	\$ -	\$ -	\$ -	\$ -
21	Cybersecurity	\$ -	\$ -	\$ -	\$ -
22	Total Gas O&M costs	\$ -	\$ -	\$ -	\$ -
23	Total O&M Expenses	\$ -	\$ 13,000	\$ 515,000	\$ 515,000
24	Electric Capital Investment:				
25	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2020 Capital Investment		\$12,325	\$23,522	\$21,753
26	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2021 Capital Investment			\$0	\$0
27	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2022 Capital Investment				\$0
28	Total Electric Capital Investment Component of Revenue Requirement	-	\$12,325	\$23,522	\$21,753
29	Gas Capital Investment:				
30	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2020 Capital Investment		\$0	\$0	\$0
31	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2021 Capital Investment			\$0	\$0
32	Estimated Revenue Requirement on Fiscal Year Ending March 31, 2022 Capital Investment				\$0
33	Total Gas Capital Investment Component of Revenue Requirement	-	\$0	\$0	\$0
34	Total Electric Revenue Requirement	-	\$25,325	\$538,522	\$536,753
35	Total Gas Revenue Requirement	-	\$0	\$0	\$0
36	Total Electric & Gas Revenue Requirement	-	\$ 25,325	\$ 538,522	\$ 536,753

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2020
Synergy Grid Mod - PI Historian Electric

Line No.		Fiscal Year Ending March 31, 2020 (a)	Fiscal Year Ending March 31, 2021 (b)	Fiscal Year Ending March 31, 2022 (c)
<u>Estimated Capital Investment</u>				
1	Feeder Monitor Sensors	\$0	\$0	\$0
2	RTU Separation	\$0	\$0	\$0
3	PI Historian	\$113,000	\$0	\$0
4	DSCADA & ADMS	\$0	\$0	\$0
5	Total Estimated Capital Investment	\$113,000	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>				
6	Total Allowed Capital Included in Rate Base in Current Year	Line 5	\$113,000	\$0
7	Retirements	Line 4 * 0%	\$0	\$0
8	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b and c) = Prior Year Line 6	\$113,000	\$113,000
<u>Change in Net Capital Included in Rate Base</u>				
9	Capital Included in Rate Base	Line 5	\$113,000	\$0
10	Cost of Removal	\$0	\$0	\$0
11	Total Net Plant in Service Including Cost of Removal	Line 8 + Line 10	\$113,000	\$113,000
<u>Tax Depreciation</u>				
12	Vintage Year Tax Depreciation:			
13	FY 2020 Spend	Page 3 of 10, Line 21	\$94,166	\$12,557
14	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	\$94,166	\$106,723
<u>Book Depreciation</u>				
15	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	14.29%	14.29%
16	Book Depreciation	Column (a) = Line 1 * Line 13 * 50%; Column (b and c) = Line 1 * Line 13	\$8,071	\$16,143
17	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$8,071	\$24,214
18	Total Cumulative Book Depreciation	Line 20 + Line 17	\$8,071	\$24,214
<u>Deferred Tax Calculation:</u>				
19	Cumulative Book / Tax Timer	Line 14 - Line 18	\$86,095	\$82,509
20	Effective Tax Rate		21.00%	21.00%
21	Deferred Tax Reserve	Line 19 * Line 20	\$18,080	\$17,327
22	Less: FY 2020 Federal NOL		\$ -	\$ -
23	Less: Proration Adjustment	Col (a) = Page 8 of 10, Line 40; Col (b) = Page 9 of 10, Line 40; Col (c) = Page 10 of 10, Line 40	\$ (9,816)	\$ 409
24	Net Deferred Tax Reserve	Sum of Lines 21 through 23	\$8,264	\$17,736
<u>Rate Base Calculation:</u>				
25	Cumulative Incremental Capital Included in Rate Base	Line 11	\$ 113,000	\$ 113,000
26	Accumulated Depreciation	- Line 18	(\$8,071)	(\$24,214)
27	Deferred Tax Reserve	- Line 24	(\$8,264)	(\$17,736)
28	Year End Rate Base	Sum of Lines 25 through 27	\$ 96,665	\$71,050
<u>Revenue Requirement Calculation:</u>				
29	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2; Column (b and c) = (Prior Year Line 29 + Current Year Line 39) ÷ 2	\$48,332	\$83,857
30	Pre-Tax ROR	1/	8.80%	8.80%
31	Return and Taxes	Line 29 * Line 30	\$4,253	\$7,379
32	Book Depreciation	Line 16 - Line 19	\$8,071	\$16,143
33	Annual Revenue Requirement	Sum of Lines 31 through	\$12,325	\$23,522

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 3 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2020 Electric Capital Investments
Synergy Grid Mod - PI Historian Electric

Line No.			Fiscal Year Ending March 31, 2020 (a)	Fiscal Year Ending March 31, 2021 (b)	Fiscal Year Ending March 31, 2022 (c)
	<u>Capital Repairs Deduction</u>				
1	Plant Additions	Page 2 of 10, Line 5	\$113,000		
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%		
3	Capital Repairs Deduction	Line 1 * Line 2	\$0		
	<u>Bonus Depreciation</u>				
4	Plant Additions	Line 1	\$113,000		
5	Less Capital Repairs Deduction	Line 3	\$0		
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$113,000		
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%		
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$113,000		
9	Bonus Depreciation Rate (April 2019 - December 2019)	1 * 75% * 100%	75.00%		
10	Bonus Depreciation Rate (January 2020 - Mar 2020)	1 * 25% * 0%	0.00%		
11	Total Bonus Depreciation Rate	Line 9 + Line 10	75.00%		
12	Bonus Depreciation	Line 8 * Line 11	\$84,750		
	<u>Remaining Tax Depreciation</u>				
13	Plant Additions	Line 1	\$113,000		
14	Less Capital Repairs Deduction	Line 3	\$0		
15	Less Bonus Depreciation	Line 12	\$84,750		
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$28,250	\$28,250	\$28,250
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	33.330%	44.450%	14.810%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$9,416	\$12,557	\$4,184
19	FY20 Loss incurred due to retirements	Per Tax Department	\$0	\$0	\$0
20	Cost of Removal	Page 2 of 10, Line 10	\$0		
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, and 20	\$94,166	\$12,557	\$4,184

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.3 - Grid Mod Shared

Page 4 of 10

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

Power Sector Transformation (PST)

Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2021

Synergy Grid Mod - PI Historian Electric

Line No.			Fiscal Year Ending March 31, 2021 (a)	Fiscal Year Ending March 31, 2022 (b)
<u>Estimated Capital Investment</u>				
1	Feeder Monitor Sensors		\$0	
2	RTU Separation		\$0	
3	PI Historian		\$0	
4	DSCADA & ADMS		\$0	
5	Total Estimated Capital Investment	Line 1 + Line 2 + Line 4	\$0	\$0
<u>Depreciable Net Capital Included in Rate Base</u>				
6	Total Allowed Capital Included in Rate Base in Current Year	Line 5	\$0	\$0
7	Retirements	Line 4 * 0%	\$0	\$0
8	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5; Column (b) = Prior Year Line 6	\$0	\$0
<u>Change in Net Capital Included in Rate Base</u>				
9	Capital Included in Rate Base	Line 5	\$0	\$0
10	Cost of Removal		\$0	\$0
11	Total Net Plant in Service Including Cost of Removal	Line 8 + Line 10	\$0	\$0
<u>Tax Depreciation</u>				
12	Vintage Year Tax Depreciation:			
13	FY 2021 Spend	Page 5 of 10, Line 21	\$0	\$0
14	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 11	\$0	\$0
<u>Book Depreciation</u>				
15	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	14.29%	14.29%
16	Book Depreciation	Column (a) = Line 1 * Line 13 * 50%; Column (b) = Line 1 * Line 13	\$0	\$0
17	Cumulative Book Depreciation	Prior Year Line 15 + Current Year Line 14	\$0	\$0
18	Composite Book Depreciation Rate	As filed per R.I.P.U.C. Docket No. 4770	2.09%	2.09%
19	Book Depreciation	Column (a) = Line 2 * Line 16 * 50%; Column (b) = Line 2 * Line 16	\$0	\$0
20	Cumulative Book Depreciation	Prior Year Line 18 + Current Year Line 17	\$0	\$0
21	Total Cumulative Book Depreciation	Line 20 + Line 17	\$0	\$0
<u>Deferred Tax Calculation:</u>				
22	Cumulative Book / Tax Timer	Line 14 - Line 21	\$0	\$0
23	Effective Tax Rate		21.00%	21.00%
24	Deferred Tax Reserve	Line 22 * Line 23	\$0	\$0
25	Less: FY 2021 Federal NOL		\$0	\$0
26	Less: Proration Adjustment	Col (a) = Page 9 of 10, Line 40; Col (b) = Page 10 of 10, Line 40	\$0	\$0
27	Net Deferred Tax Reserve	Sum of Lines 24 through 26	\$0	\$0
<u>Rate Base Calculation:</u>				
28	Cumulative Incremental Capital Included in Rate Base	Line 11	\$ -	\$0
29	Accumulated Depreciation	- Line 21	\$0	\$0
30	Deferred Tax Reserve	- Line 27	\$0	\$0
31	Year End Rate Base	Sum of Lines 28 through 30	\$ -	\$0
<u>Revenue Requirement Calculation:</u>				
32	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2; Column (b) = (Prior Year Line 29 + Current Year Line 29) ÷ 2	\$0.00	\$0
33	Pre-Tax ROR		1/ 8.80%	8.80%
34	Return and Taxes	Line 32 * Line 33	\$0	\$0
35	Book Depreciation	Line 16 + Line 19	\$0	\$0
36	Property Taxes	Tax Rate 3.176% MAL-7 - Columns (b) Line 9 * 3.176%	\$0	\$0
37	Annual Revenue Requirement	Sum of Lines 34 through 36	\$0	\$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 5 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2021 Electric Capital Investments
Synergy Grid Mod - PI Historian Electric

Line No.			Fiscal Year Ending March 31, 2021 (a)	Fiscal Year Ending March 31, 2022 (b)
	<u>Capital Repairs Deduction</u>			
1	Plant Additions	Page 4 of 10, Line 5	\$0	
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%	
3	Capital Repairs Deduction	Line 1 * Line 2	\$0	
	<u>Bonus Depreciation</u>			
4	Plant Additions	Line 1	\$0	
5	Less Capital Repairs Deduction	Line 3	\$0	
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$0	
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%	
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$0	
9	Bonus Depreciation Rate (April 2020 - December 2020)	0%	0.00%	
10	Bonus Depreciation Rate (January 2021 - Mar 2021)	0%	0.00%	
11	Total Bonus Depreciation Rate	Line 9 + Line 10	0.00%	
12	Bonus Depreciation	Line 8 * Line 11	\$0	
	<u>Remaining Tax Depreciation</u>			
13	Plant Additions	Line 1	\$0	
14	Less Capital Repairs Deduction	Line 3	\$0	
15	Less Bonus Depreciation	Line 12	\$0	
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$0	\$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	33.330%	44.450%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$0	\$0
19	FY21 Loss incurred due to retirements	Per Tax Department	\$0	\$0
20	Cost of Removal	Page 4 of 10, Line 10	\$0	\$0
21	Total Tax Depreciation and Repairs Deduction	Sum of Lines 3, 12, 18, 19, and 20	\$0	\$0

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 6 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Revenue Requirement on Estimated Electric Capital Investment 12 months ending March 31, 2022
Synergy Grid Mod - PI Historian Electric

Line No.		Fiscal Year Ending March 31, 2022 (a)
<u>Estimated Capital Investment</u>		
1	Feeder Monitor Sensors	\$0
2	RTU Separation	\$0
3	PI Historian	\$0
4	DSCADA & ADMS	\$0
5	Total Estimated Capital Investment	Line 1 + Line 2 + Line 4 \$0
<u>Depreciable Net Capital Included in Rate Base</u>		
6	Total Allowed Capital Included in Rate Base in Current Year	Line 5 \$0
7	Retirements	Line 4 * 0% \$0
8	Net Depreciable Capital Included in Rate Base	Column (a) = Line 4 - Line 5 \$0
<u>Change in Net Capital Included in Rate Base</u>		
9	Capital Included in Rate Base	Line 5 \$0
10	Cost of Removal	\$0
11	Total Net Plant in Service Including Cost of Removal	Line 8 + Line 10 \$0
<u>Tax Depreciation</u>		
12	Vintage Year Tax Depreciation:	
13	FY 2022 Spend	Page 7 of 10, Line 21 \$0
14	Cumulative Tax Depreciation	Prior Year Line 12 + Current Year Line 13 \$0
<u>Book Depreciation</u>		
15	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4770 14.29%
16	Book Depreciation	Column (a) = Line 1 * Line 13 * 50% \$0
17	Cumulative Book Depreciation	Current Year Line 14 \$0
18	Composite Book Depreciation Rate	As approved per R.I.P.U.C. Docket No. 4770 2.09%
19	Book Depreciation	Column (a) = Line 2 * Line 16 * 50% \$0
20	Cumulative Book Depreciation	Current Year Line 16 \$0
21	Total Cumulative Book Depreciation	Line 17 + Line 20 \$0
<u>Deferred Tax Calculation:</u>		
22	Cumulative Book / Tax Timer	Line 14 - Line 21 \$0
23	Effective Tax Rate	21.00%
24	Deferred Tax Reserve	Line 22 * Line 23 \$0
25	Less: FY 2022 Federal NOL	\$0
26	Less: Proration Adjustment	Col (a) = Page 10 of 10, Line 40 \$0
27	Net Deferred Tax Reserve	Sum of Lines 24 through 26 \$0
<u>Rate Base Calculation:</u>		
28	Cumulative Incremental Capital Included in Rate Base	Line 11 \$ -
29	Accumulated Depreciation	- Line 21 \$0
30	Deferred Tax Reserve	- Line 27 \$0
31	Year End Rate Base	Sum of Lines 28 through 30 \$ -
<u>Revenue Requirement Calculation:</u>		
32	Average Rate Base	Column (a) = Current Year Line 29 ÷ 2 \$0
33	Pre-Tax ROR	1/ 8.80%
34	Return and Taxes	Line 32 * Line 33 \$0
35	Book Depreciation	Line 16 + Line 19 \$0
36	Property Taxes	Tax Rate 3.176% MAL-7 \$0
37	Annual Revenue Requirement	Sum of Lines 34 through 36 \$0

1/ Weighted Average Cost of Capital as file in R.I.P.U.C. Docket No. 4770, Schedule MAL-1-ELEC

	Ratio	Rate	Rate	Taxes	Return
Long Term Debt	48.47%	4.69%	2.27%		2.27%
Short Term Debt	0.45%	1.76%	0.01%		0.01%
Preferred Stock	0.11%	4.50%	0.00%		0.00%
Common Equity	50.97%	10.10%	5.15%	1.37%	6.52%
	100.00%		7.43%	1.37%	8.80%

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 7 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Tax Depreciation and Repairs Deduction on Fiscal Year 2022 Electric Capital Investments
Synergy Grid Mod - PI Historian Electric

Line No.			Fiscal Year Ending <u>March 31, 2022</u> (a)
	<u>Capital Repairs Deduction</u>		
1	Plant Additions	Page 6 of 10, Line 5	\$0
2	Capital Repairs Deduction Rate	Per Tax Department	0.00%
3	Capital Repairs Deduction	Line 1 * Line 2	\$0
	<u>Bonus Depreciation</u>		
4	Plant Additions	Line 1	\$0
5	Less Capital Repairs Deduction	Line 3	\$0
6	Plant Additions Net of Capital Repairs Deduction	Line 4 - Line 5	\$0
7	Percent of Plant Eligible for Bonus Depreciation	Per Tax Department	100.00%
8	Plant Eligible for Bonus Depreciation	Line 6 * Line 7	\$0
9	Bonus Depreciation Rate (April 2021 - December 2021)	0%	0.00%
10	Bonus Depreciation Rate (January 2022 - Mar 2022)	0%	0.00%
11	Total Bonus Depreciation Rate	Line 9 + Line 10	0.00%
12	Bonus Depreciation	Line 8 * Line 11	\$0
	<u>Remaining Tax Depreciation</u>		
13	Plant Additions	Line 1	\$0
14	Less Capital Repairs Deduction	Line 3	\$0
15	Less Bonus Depreciation	Line 12	\$0
16	Remaining Plant Additions Subject to 20 YR MACRS Tax Depreciation	Line 13 - Line 14 - Line 15	\$0
17	20 YR MACRS Tax Depreciation Rates	Per IRS Publication 946	33.330%
18	Remaining Tax Depreciation	Line 16 * Line 17	\$0
19	FY22 Loss incurred due to retirements	Per Tax Department	\$0
20	Cost of Removal	Page 6 of 10, Line 10	\$0
		Sum of Lines 3, 12, 18, 19, and 20	
21	Total Tax Depreciation and Repairs Deduction		\$0

THE NARRAGANSETT ELECTRIC COMPANY

d/b/a NATIONAL GRID

RIPUC Docket No. 4770

Appendix 10.3 - Grid Mod Shared

Page 8 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Fiscal Year 2020 Net Deferred Tax Reserve Electric Proration
Synergy Grid Mod - PI Historian Electric

Line No.			(a)= Column (b)	(b)
			Total	Vintage Year March 31, 2020
1	Deferred Tax Subject to Proration			
1	Book Depreciation	Page 2 of 10, Line 16 + Line 19	\$8,071	\$8,071
2	Bonus Depreciation	Page 3 of 10, Line 12	(\$84,750)	(\$84,750)
3	Remaining MACRS Tax Depreciation	Page 3 of 10, Line 18	(\$9,416)	(\$9,416)
4	FY20 tax (gain)/loss on retirements	Page 3 of 10, Line 19	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	(\$86,095)	(\$86,095)
6	Effective Tax Rate		21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	(\$18,080)	(\$18,080)
	Deferred Tax Not Subject to Proration			
8	Capital Repairs Deduction	Page 3 of 10, Line 3	\$0	\$0
9	Cost of Removal	Page 3 of 10, Line 20	\$0	\$0
10	Book/Tax Depreciation Timing Difference at 3/31/2020		\$0	\$0
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0
12	Effective Tax Rate		21.00%	21.00%
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0
14	Total Deferred Tax Reserve	Line 7 + Line 13	(\$18,080)	(\$18,080)
15	Net Operating Loss	Page 2 of 10, Line 22	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	(\$18,080)	(\$18,080)
	Allocation of FY 2020 Estimated Federal NOL			
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	(\$86,095)	(\$86,095)
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	(\$86,095)	(\$86,095)
20	Total FY 2020 Federal NOL	Page 2 of 10, Line 22 / 21%	\$0	\$0
21	Allocated FY 2020 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0
22	Allocated FY 2020 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	(\$18,080)	(\$18,080)
		(i) (j)		
	Proration Calculation	<u>Number of Days in</u>		
		<u>Month</u>	<u>Proration Percentage</u>	(k)= Sum of (l) (l)
26	April 2019	30	91.78%	(\$1,383) (\$1,383)
27	May 2019	31	83.29%	(\$1,255) (\$1,255)
28	June 2019	30	75.07%	(\$1,131) (\$1,131)
29	July 2019	31	66.58%	(\$1,003) (\$1,003)
30	August 2019	31	58.08%	(\$875) (\$875)
31	September 2019	30	49.86%	(\$751) (\$751)
32	October 2019	31	41.37%	(\$623) (\$623)
33	November 2019	30	33.15%	(\$499) (\$499)
34	December 2019	31	24.66%	(\$372) (\$372)
35	January 2020	31	16.16%	(\$244) (\$244)
36	February 2020	28	8.49%	(\$128) (\$128)
37	March 2020	31	0.00%	\$0 \$0
38	Total	365		(\$8,264) (\$8,264)
39	Deferred Tax Without Proration	Line 25	(\$18,080)	(\$18,080)
40	Proration Adjustment	Line 38 - Line 39	\$9,816	\$9,816

Column Notes:

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

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

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Fiscal Year 2021 Net Deferred Tax Reserve Electric Proration
Synergy Grid Mod - PI Historian Electric

Line No.	Deferred Tax Subject to Proration	(a)=Sum of (b) through (c)	(b) Vintage Year March 31, 2021	(c) Vintage Year March 31, 2020
1	Book Depreciation	Col (b) = Page 4 of 10, Line 16 + Line 19 ;Col (c) = Page 2 of 10, Line 16 + Line 19	\$16,143	\$16,143
2	Bonus Depreciation	Page 5 of 10, Line 12	\$0	\$0
3	Remaining MACRS Tax Depreciation	Col (b) = Page 5 of 10, Line 18 ;Col (c) = Page 3 of 10, Line 18	(\$12,557)	(\$12,557)
4	FY21 tax (gain)/loss on retirements	Col (b) = Page 5 of 10, Line 19 ;Col (c) = Page 3 of 10, Line 19	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$3,586	\$3,586
6	Effective Tax Rate	Per Tax Department	21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$753	\$753
Deferred Tax Not Subject to Proration				
8	Capital Repairs Deduction	Page 7 of 10, Line 3	\$0	\$0
9	Cost of Removal	Page 7 of 10, Line 20	\$0	\$0
10	Book/Tax Depreciation Timing Difference at 3/31/2021		\$0	\$0
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0
12	Effective Tax Rate		21.00%	21.00%
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$753	\$753
15	Net Operating Loss	Page 4 of 10, Line 25	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$753	\$753
Allocation of FY 2021 Estimated Federal NOL				
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0
20	Total FY 2021 Federal NOL	Col (b) = Page 4 of 10, Line 25 / 21%	\$0	\$0
21	Allocated FY 2021 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0
22	Allocated FY 2021 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$753	\$753

		(i) Number of Days in Month	(j) Proration Percentage	(k)= Sum of (l) through (m)	(l)	(m)
Proration Calculation						
26	April 2020	30	91.78%	\$58	\$0	\$58
27	May 2020	31	83.29%	\$52	\$0	\$52
28	June 2020	30	75.07%	\$47	\$0	\$47
29	July 2020	31	66.58%	\$42	\$0	\$42
30	August 2020	31	58.08%	\$36	\$0	\$36
31	September 2020	30	49.86%	\$31	\$0	\$31
32	October 2020	31	41.37%	\$26	\$0	\$26
33	November 2020	30	33.15%	\$21	\$0	\$21
34	December 2020	31	24.66%	\$15	\$0	\$15
35	January 2021	31	16.16%	\$10	\$0	\$10
36	February 2021	28	8.49%	\$5	\$0	\$5
37	March 2021	31	0.00%	\$0	\$0	\$0
38	Total	365		\$344	\$0	\$344
39	Deferred Tax Without Proration	Line 25		\$753	\$0	\$753
40	Proration Adjustment	Line 38 - Line 39		(\$409)	\$0	(\$409)

Column Notes:

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

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
RIPUC Docket No. 4770
Appendix 10.3 - Grid Mod Shared
Page 10 of 10

THE NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID
Power Sector Transformation (PST)
Calculation of Fiscal Year 2022 Net Deferred Tax Reserve Electric Proration
Synergy Grid Mod - PI Historian Electric

Line No.	Deferred Tax Subject to Proration		(a)=Sum of (b) through (d)	(b) Vintage Year March 31, 2022	(c) Vintage Year March 31, 2021	(d) Vintage Year March 31, 2020
			Total			
1	Book Depreciation	Col (b) = Page 6 of 10, Line 16 + Line 19; Col (c) = Page 4 of 10, Line 16 + Line 19; Col (d) = Page 2 of 10, Line 16 + Line 19	\$16,143	\$0	\$0	\$16,143
2	Bonus Depreciation	Page 5 of 10, Line 12	\$0	\$0		
3	Remaining MACRS Tax Depreciation	Col (b) = Page 7 of 10, Line 18; Col (c) = Page 5 of 10, Line 18; Col (d) = Page 3 of 10, Line 18	(\$4,184)	\$0	\$0	(\$4,184)
4	FY22 tax (gain)/loss on retirements	Col (b) = Page 7 of 10, Line 19; Col (c) = Page 5 of 10, Line 19; Col (d) = Page 3 of 10, Line 19	\$0	\$0	\$0	\$0
5	Cumulative Book / Tax Timer	Sum of Lines 1 through 4	\$11,959	\$0	\$0	\$11,959
6	Effective Tax Rate	Per Tax Department	21.00%	21.00%	21.00%	21.00%
7	Deferred Tax Reserve	Line 5 * Line 6	\$2,511	\$0	\$0	\$2,511
Deferred Tax Not Subject to Proration						
8	Capital Repairs Deduction	Page 7 of 10, Line 3	\$0	\$0		
9	Cost of Removal	Page 7 of 10, Line 20	\$0	\$0		
10	Book/Tax Depreciation Timing Difference at 3/31/2022		\$0	\$0		
11	Cumulative Book / Tax Timer	Line 8 + Line 9 + Line 10	\$0	\$0		
12	Effective Tax Rate		21.00%	21.00%		
13	Deferred Tax Reserve	Line 11 * Line 12	\$0	\$0		
14	Total Deferred Tax Reserve	Line 7 + Line 13	\$2,511	\$0	\$0	\$2,511
15	Net Operating Loss	Page 6 of 10, Line 25	\$0	\$0	\$0	\$0
16	Net Deferred Tax Reserve	Line 14 + Line 15	\$2,511	\$0	\$0	\$2,511
Allocation of FY 2022 Estimated Federal NOL						
17	Cumulative Book/Tax Timer Subject to Proration	Col (b) = Line 5	\$0	\$0		
18	Cumulative Book/Tax Timer Not Subject to Proration	Line 11	\$0	\$0		
19	Total Cumulative Book/Tax Timer	Line 17 + Line 18	\$0	\$0		
20	Total FY 2022 Federal NOL	Col (b) = Page 6 of 10, Line 25 / 21%	\$0	\$0		
21	Allocated FY 2022 Federal NOL Not Subject to Proration	(Line 18 / Line 19) * Line 20	\$0	\$0		
22	Allocated FY 2022 Federal NOL Subject to Proration	(Line 17 / Line 19) * Line 20	\$0	\$0		
23	Effective Tax Rate	Per Tax Department	21.00%	21.00%		
24	Deferred Tax Benefit subject to proration	Line 22 * Line 23	\$0	\$0		
25	Net Deferred Tax Reserve subject to proration	Line 7 + Line 24	\$2,511	\$0	\$0	\$2,511
			(i)	(j)		
			Number of Days in	(k)= Sum of (l) through (n)	(l)	(m)
			Month	Proration Percentage		(n)
26	April 2021	30	91.78%	\$192	\$0	\$192
27	May 2021	31	83.29%	\$174	\$0	\$174
28	June 2021	30	75.07%	\$157	\$0	\$157
29	July 2021	31	66.58%	\$139	\$0	\$139
30	August 2021	31	58.08%	\$122	\$0	\$122
31	September 2021	30	49.86%	\$104	\$0	\$104
32	October 2021	31	41.37%	\$87	\$0	\$87
33	November 2021	30	33.15%	\$69	\$0	\$69
34	December 2021	31	24.66%	\$52	\$0	\$52
35	January 2022	31	16.16%	\$34	\$0	\$34
36	February 2022	28	8.49%	\$18	\$0	\$18
37	March 2022	31	0.00%	\$0	\$0	\$0
38	Total	365		\$1,148	\$0	\$1,148
39	Deferred Tax Without Proration	Line 25		\$2,511	\$0	\$2,511
40	Proration Adjustment	Line 38 - Line 39		(\$1,363)	\$0	(\$1,363)

Column Notes:

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

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

Division 27-14

Request:

Are the PST costs that would be incurred by the gas distribution business for gas grid mod, as shown in Appendix 10.2 and 10.3 of PST-2 and on page 3 of 3 of Attachment DIV 19-18-1, being proposed for recovery (i) through the electric PST tracker proposed in docket 4780, (ii) through a different PST tracker applicable to the gas business, (iii) within the Gas Business Enablement cost recovery, or (iv) through another means? Please explain.

Response:

The Company included in Appendix 10.11 a proposed new section to Narragansett Gas' Distribution Adjustment Clause, which is a component of its gas tariff. Please see Bates Pages 295-300 of PST Book 2 of the November 27, 2017 initial filing in this proceeding. The Company is proposing to recover costs applicable to the gas component of its PST Plan from gas customers, not from electric customers.

(This response is identical to the Company's response to Division 9-14 in Docket No. 4780.)

Division 27-15

Request:

Referring to Attachment DIV 19-8-1 (Docket 4770), pages 1 through 3, which shows cost incurrence by Fiscal Year for Rhode Island only, please provide a similar estimate showing cost incurrence for all the grid modernization initiatives shown therein as such costs would be incurred in Rate Year 1, assuming each initiative commences on the schedule assumed in DIV 19-8-1.

Response:

The Fiscal Year 2020 revenue requirements shown in Attachment DIV 19-8-1 (Docket No. 4770), Pages 1 through 3, would include the same costs depicted for Rate Year 1 (i.e., September 1, 2018 – August 31, 2019) because the Company would shift the operating and maintenance costs by six months, in accordance with the schedule assumed in Attachment DIV 19-8-1. The capital investment revenue requirements shown in Attachment DIV 19-8-1 (Docket No. 4770), Pages 1 through 3, assumes a half-year convention; therefore, the revenue requirements associated with the capital spend would not change the schedule assumed in Attachment DIV 19-8-1.

(This response is identical to the Company's response to Division 9-15 in Docket No. 4780.)

Division 27-16

Request:

Referring to Attachment DIV 19-8-2 (Docket 4770), pages 1 through 3, which shows cost incurrence by Fiscal Year for the multi-jurisdictional implementation, please provide an estimate showing cost incurrence for all the grid modernization initiatives shown therein as such costs would be incurred in Rate Year 1, assuming each initiative commences on the schedule assumed in DIV 19-8-2.

Response:

The Fiscal Year 2020 revenue requirements shown in Attachment DIV 19-8-2 (Docket No. 4770), Pages 1 through 3, would include the same costs depicted for Rate Year 1 (i.e., September 1, 2018 – August 31, 2019) because the Company would shift the operating and maintenance costs by six months, in accordance with the schedule assumed in Attachment DIV 19-8-2. The capital investment revenue requirements shown in Attachment DIV 19-8-2 (Docket No. 4770), Pages 1 through 3, assumes a half-year convention; therefore, the revenue requirements associated with the capital spend would not change the schedule assumed in Attachment DIV 19-8-2.

(This response is identical to the Company's response to Division 9-16 in Docket No. 4780.)

Division 27-17

Request:

Referring to Attachment DIV 19-8-1(Docket 4770), pages 1 through 3, which shows cost incurrence by Fiscal Year for Rhode Island only, please provide a similar estimate showing cost incurrence for all the grid modernization initiatives shown therein as such costs would be incurred in Rate Years 2 and 3, assuming each initiative commences on the schedule assumed in DIV 19-8-1.

Response:

The Fiscal Year (FY) 2021 and FY 2022 revenue requirements shown in Attachment DIV 19-8-1 (Docket No. 4770), Pages 1 through 3, would include the same costs depicted for Rate Year 2 (i.e., September 1, 2019 – August 31, 2020) and Rate Year 3 (i.e., September 1, 2020 – August 31, 2021) because the Company would shift the operating and maintenance costs by six months, in accordance with the schedule assumed in Attachment DIV 19-8-1. The capital investment revenue requirements shown in Attachment DIV 19-8-1 (Docket No. 4770), Pages 1 through 3, assumes a half-year convention; therefore, the revenue requirements associated with the capital spend would not change the schedule assumed in Attachment DIV 19-8-1.

(This response is identical to the Company's response to Division 9-17 in Docket No. 4780.)

Division 27-18

Request:

Referring to Attachment DIV 19-8-2 (Docket 4770), pages 1 through 3, which shows cost incurrence by Fiscal Year for the multi-jurisdictional implementation, please provide a similar estimate showing cost incurrence for all the grid modernization initiatives shown therein as such costs would be incurred in Rate Years 2 and 3, assuming each initiative commences on the schedule assumed in DIV 19-8-2.

Response:

The Fiscal Year (FY) 2021 and FY 2022 revenue requirements shown in Attachment DIV 19-8-2 (Docket No. 4770), Pages 1 through 3, would include the same costs depicted for Rate Year 2 (i.e., September 1, 2019 – August 31, 2020) and Rate Year 3 (i.e., September 1, 2020 – August 31, 2021) because the Company would shift the operating and maintenance costs by six months, in accordance with the schedule assumed in Attachment DIV 19-8-2. The capital investment revenue requirements shown in Attachment DIV 19-8-2 (Docket No. 4770), Pages 1 through 3, assumes a half-year convention; therefore, the revenue requirements associated with the capital spend would not change the schedule assumed in Attachment DIV 19-8-2.

(This response is identical to the Company's response to Division 9-18 in Docket No. 4780.)