

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4770  
Responses to Division's Twenty-Third Set of Data Requests  
Issued February 12, 2018

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Division 23-1

Request:

Please provide the amount of cost reflected separately in Rate Years 1, 2, and 3 relating to the gas meter replacement program.

Response:

The plant balances in the revenue requirements in this case are derived using the approved Fiscal Year (FY) 2018 Gas Infrastructure, Safety, and Reliability (ISR) Plan for each year. In the FY18 Gas ISR Plan, the gas meter replacement program costs were \$2.367 million; however, because the difference between the rate allowance and actual costs will be recovered through the ISR, the Company is providing the latest estimate of these costs.

The gas meter replacement program costs in the FY19 Gas ISR Plan are provided in the table below. The capital costs include the equipment and installation costs of the new gas meters and ERTs (i.e., encoder receiver transmitter). The O&M costs include the labor costs associated with gas meter removals.

Program	FY19	FY20	FY21	FY22
Gas Meter Replacement (CAPEX)	\$4.371M	\$4.459M	\$4.548M	\$4.638M
Gas Meter Replacement (O&M)	\$1.485M	\$1.515M	\$1.545M	\$1.576M

(This response is identical to the Company's response to Division 7-1 in Docket No. 4780.)

Division 23-2

Request:

Please provide the amount of cost reflected separately in Rate Years 1, 2, and 3 relating to the electric meter replacement program.

Response:

The plant balances in the revenue requirements in this case are derived using the approved Fiscal Year (FY) 2018 Electric Infrastructure, Safety, and Reliability (ISR) Plan for each year. In the FY18 Electric ISR Plan, the electric meter replacement program costs were \$1.030 million; however, because the difference between the rate allowance and actual costs will be recovered through the ISR, the Company is providing the latest estimate of these costs.

The electric meter replacement program costs in the FY19 Electric ISR Plan are provided in the table below. The amounts include equipment and labor costs that are both capitalized.

Program	FY19	FY20	FY21	FY22
Electric Meter Replacement Program	\$1.954M	\$2.046M	\$2.143M	\$2.245M

(This response is identical to the Company's response to Division 7-2 in Docket No. 4780.)

Division 23-3

Request:

Please identify the allocator used to allocate the estimated costs of AMI in the multi-jurisdictional scenarios (including the description and SAP Allocation Code from Attachment DIV 12-13).

Response:

The allocator used to allocate the common costs of the multi-jurisdictional, Rhode Island, and New York Niagara Mohawk Power Corporation deployment scenario to Rhode Island is 25.12 percent. This allocator was developed using National Grid USA Service Company, Inc. figures included on Page 1 of 162 of Attachment DIV 12-13. These figures have been reproduced in the table below:

<b>SAP Allocation Code</b>	<b>SAP Co./Seg</b>	<b>Company Description</b>	<b>FY 2018 Number of Installed Meters</b>
5210	5210E	Niagara Mohawk Power Corp. – Electric Distr.	1,718,053
5210	5210G	Niagara Mohawk Power Corp. – Gas	639,493
5360	5360E	Narragansett Electric	512,318
5360	5360G	Narragansett Gas	278,403

Allocator Calculation:

Step 1:  $1,718,053 + 639,493 = 2,357,546$   
Step 2:  $512,318 + 278,403 = 790,721$   
Step 3:  $790,721 / (2,357,546 + 790,721) = 25.12$  percent

The allocator is applied to the information systems and cyber security costs estimates of the multi-jurisdictional scenario. The information systems and cyber security costs are identified as elements 501 through 536, and 600 through 604, respectively, in Workpaper 4.1 – AMF costs (PST Book 3, Bates Pages 37 through 38).

(This response is identical to the Company's response to Division 7-3 in Docket No. 4780.)

#	Description	Category	Group	NPV	FY 20	FY 21	FY 22	FY 23 - FY 39
<b>COSTS (COMBINED)</b>								
100	AMF electric meter equipment cost	Capex	AMF Electric Meter Equipment and Installation	\$50.50	\$ -	\$ 20.03	\$ 41.21	\$ -
102	AMF electric meter installation cost - Capex portion	Capex	AMF Electric Meter Equipment and Installation	\$23.35	\$ -	\$ 9.25	\$ 19.08	\$ -
104	AMF failed meter equipment replacement cost	Capex	Equipment and Installation Refresh Cost	\$0.89	\$ -	\$ 0.03	\$ 0.09	\$ 1.86
105	AMF demonstration period cost	Opex	AMF Electric Meter Equipment and Installation	\$1.43	\$ 1.54	\$ -	\$ -	\$ -
110	AMF network engineering, design, contracting cost	Capex	Network Equipment and Installation	\$0.10	\$ 0.10	\$ -	\$ -	\$ -
111	Network communications equipment cost, Electric Meters	Capex	Network Equipment and Installation	\$1.29	\$ -	\$ 0.51	\$ 1.05	\$ -
112	Network communications equipment cost, Gas Meters	Capex	Network Equipment and Installation	\$0.18	\$ -	\$ 0.07	\$ 0.15	\$ -
113	Network communications installation cost, Electric Meters	Capex	Network Equipment and Installation	\$0.10	\$ -	\$ 0.04	\$ 0.09	\$ -
114	Network communications installation cost, Gas Meters	Capex	Network Equipment and Installation	\$0.01	\$ -	\$ 0.01	\$ 0.01	\$ -
115	Network communications LTE backhaul cost, Electric Meters	Opex	Backhaul	\$0.95	\$ -	\$ 0.03	\$ 0.09	\$ 2.00
116	Network communications LTE backhaul cost, Gas Meters	Opex	Backhaul	\$0.11	\$ -	\$ 0.00	\$ 0.00	\$ 0.25
117	AMF meter cellular service cost, Electric Meters	Opex	Equipment and Installation Refresh Cost	\$1.55	\$ -	\$ 0.05	\$ 0.15	\$ 3.25
118	Network communications equipment cost upgrade	Capex	Network Equipment and Installation	\$1.14	\$ -	\$ -	\$ -	\$ 2.35
119	AMF communications failed equipment replacement cost	Opex	Equipment and Installation Refresh Cost	\$0.19	\$ -	\$ -	\$ 0.01	\$ 0.42
120	AMF communications equipment O&M cost (outside warranty)	Opex	Equipment and Installation Refresh Cost	\$0.36	\$ -	\$ -	\$ -	\$ 0.85
121	AMF External Project Management labor cost - Capex portion	Capex	Project Management	\$1.75	\$ -	\$ 2.02	\$ -	\$ -
123	Cost from call center and AMO, implementation	Opex	Project Management	\$4.87	\$ -	\$ 2.15	\$ 3.74	\$ -
124	AMF Internal Project Management Leadership Staff - Capex portion	Capex	Project Management	\$0.72	\$ -	\$ 0.42	\$ 0.44	\$ -
125	AMF Internal Project Management Business Support - Capex portion	Capex	Project Management	\$2.42	\$ 1.28	\$ 1.42	\$ -	\$ -
126	AMF electric meter installation cost - COR portion	COR	AMF Electric Meter Equipment and Installation	\$0.72	\$ -	\$ 0.29	\$ 0.59	\$ -
128	AMF External Project Management labor cost - Opex portion	Opex	Project Management	\$1.83	\$ 1.97	\$ -	\$ -	\$ -
129	AMF Internal Project Management Leadership Staff - Opex portion	Opex	Project Management	\$0.38	\$ 0.41	\$ -	\$ -	\$ -
130	AMF Internal Project Management Business Support- Opex portion	Opex	Project Management	\$1.28	\$ 1.38	\$ -	\$ -	\$ -
134	AMF inventory equipment cost	Capex	AMF Inventory	\$1.26	\$ -	\$ 0.50	\$ -	\$ -
135	Professional Services - Field Deployment Support Workstream cost	Capex	Communication Network Installation Management	\$3.21	\$ -	\$ 0.42	\$ 2.00	\$ 1.65
136	Professional Services - Field Deployment Support Workstream Travel Expenses cost	Opex	Communication Network Installation Management	\$0.48	\$ -	\$ 0.06	\$ 0.30	\$ 0.25
201	Back-Office Revenue Assurance Analyst cost	Opex	Ongoing Business Management	\$0.00	\$ -	\$ -	\$ -	\$ -
202	Cost of theft investigations	Opex	Ongoing Business Management	\$0.00	\$ -	\$ -	\$ -	\$ -
203	CMS Deployment Center, Facility cost	Capex	Support Infrastructure	\$1.35	\$ -	\$ 1.06	\$ 0.54	\$ -
204	CMS Back Office & Clerical cost	Capex	Support Infrastructure	\$1.86	\$ -	\$ 1.46	\$ 0.75	\$ -
205	Service Representative Tools / Uniform cost	Capex	Support Infrastructure	\$0.19	\$ -	\$ 0.16	\$ 0.06	\$ -
206	Installed meter Quality Assurance / Quality Check cost	Capex	Support Infrastructure	\$0.61	\$ -	\$ 0.48	\$ 0.25	\$ -
207	CMS Deployment Coordination Labor cost	Capex	Support Infrastructure	\$0.82	\$ -	\$ 0.64	\$ 0.33	\$ -
208	CMS Field Installer Initial Training	Capex	Support Infrastructure	\$0.78	\$ 0.43	\$ 0.44	\$ -	\$ -
209	CMS Cellular Communication cost	Capex	Support Infrastructure	\$0.06	\$ -	\$ 0.04	\$ 0.02	\$ -
210	Handheld Devices cost	Capex	Support Infrastructure	\$0.05	\$ -	\$ 0.06	\$ -	\$ -
300	AMF Additional Meter Data Services labor cost	Opex	Ongoing Business Management	\$4.18	\$ -	\$ 0.34	\$ 0.70	\$ 7.84
301	Billing System Development Testing	Opex	Ongoing Business Management	\$2.09	\$ -	\$ 0.17	\$ 0.35	\$ 3.92
302	MDS System Development Testing	Capex	Support Infrastructure	\$0.61	\$ 0.49	\$ 0.17	\$ -	\$ -
400	Customer Engagement Plan Cost	Opex	Customer Engagement Cost	\$8.30	\$ 0.93	\$ 3.39	\$ 2.00	\$ 4.62
501	CSS Enhancements Capex Cost	Capex	Customer Service System					
502	Professional Services - Head End/MDM Solution Program Management cost	Opex	AMF Head-end and Meter Data Management Systems*					
503	Energy Monitoring Portal Opex Cost	Opex	Customer Engagement Products and Services					
504	Green Button Connect Capex Cost	Capex	Customer Engagement Products and Services					
513	Telecom Capex cost	Capex	IS Infrastructure					
514	ESB Capex cost	Capex	IS Infrastructure					
516	Information Management Capex cost	Capex	IS Infrastructure					
517	Data Lake Capex cost	Capex	IS Infrastructure					
518	Professional Services - Head End/MDM Systems Implementation Workstream cost	Opex	AMF Head-end and Meter Data Management Systems*					
519	SaaS Setup Fees - One Time Setup (Version upgrade and scale-up existing system) cost	Opex	AMF Head-end and Meter Data Management Systems*					

#	Description	Category	Group	NPV	FY 20	FY 21	FY 22	FY 23 - FY 39
<b>COSTS (COMBINED)</b>								
520	SaaS Fees - Headend Software (OWOCCM, OWOC PM, IEE MDM, IoT FND, FDM) cost	Opex	AMF Head-end and Meter Data Management Systems*					
521	Professional Services - System and Meter Firmware Upgrade cost	Opex	AMF Head-end and Meter Data Management Systems*					
522	Telecom Opex cost	Opex	IS Infrastructure					
523	Telecom RTB Cost	Opex	IS Infrastructure					
524	ESB Opex cost	Opex	IS Infrastructure					
525	ESB RTB Cost	Opex	IS Infrastructure					
526	Data Lake Opex cost	Opex	IS Infrastructure					
527	Professional Services - Head End/MDM Solution Program Management Travel Expenses cc Opex	Opex	AMF Head-end and Meter Data Management Systems*					
528	Professional Services - Head End/MDM Systems Implementation Workstream Travel Expen Opex	Opex	AMF Head-end and Meter Data Management Systems*					
529	Green Button Connect Opex Cost	Opex	Customer Engagement Products and Services					
530	Information Management Opex cost	Opex	IS Infrastructure					
531	Information Management RTB Cost	Opex	IS Infrastructure					
532	Energy Monitoring Portal RTB Cost	Opex	Customer Engagement Products and Services					
533	CSS Enhancements Opex Cost	Opex	Customer Service System					
534	CSS Enhancements RTB Cost	Opex	Customer Service System					
535	Green Button Connect RTB Cost	Opex	Customer Engagement Products and Services					
536	Data Lake RTB cost	Opex	IS Infrastructure					
600	Cyber Security Project Capex Initial	Capex	Cyber Security	\$7.31	\$ 4.29	\$ 2.52	\$ 1.41	\$ -
601	Cyber Security Project Opex Initial	Opex	Cyber Security	\$3.26	\$ 2.01	\$ 1.04	\$ 0.60	\$ -
602	Cyber Security Project RTB O&M	Opex	Cyber Security	\$5.25	\$ 0.03	\$ 0.16	\$ 0.37	\$ 11.63
603	Cyber Security Refresh / Removal Capital	Capex	Cyber Security	\$7.91	\$ -	\$ -	\$ -	\$ 18.94
604	Cyber Security Capital Refresh / Removal Opex	Opex	Cyber Security	\$3.94	\$ -	\$ -	\$ 0.00	\$ 8.85
<b>Total Cost</b>				\$ 259.75	\$ 32.55	\$ 62.32	\$ 85.70	\$ 246.74
100-400's								
Capex				\$ 93.43	\$ 2.30	\$ 39.23	\$ 67.10	\$ 6.28
Opex				\$ 27.81	\$ 6.22	\$ 6.20	\$ 7.33	\$ 22.97
Total				\$ 121.24	\$ 8.53	\$ 45.43	\$ 74.44	\$ 29.25
500's								
Capex				\$ 20.47	\$ 10.58	\$ 7.60	\$ 1.17	\$ 6.35
Opex				\$ 89.65	\$ 7.12	\$ 5.29	\$ 7.12	\$ 171.71
Total				\$ 110.12	\$ 17.69	\$ 12.89	\$ 8.29	\$ 178.07
600's								
Capex				\$ 15.22	\$ 4.29	\$ 2.52	\$ 1.41	\$ 18.94
Opex				\$ 12.45	\$ 2.04	\$ 1.20	\$ 0.97	\$ 20.49
Total				\$ 27.67	\$ 6.33	\$ 3.72	\$ 2.39	\$ 39.42
Total Capex				\$ 129.11	\$ 17.17	\$ 49.35	\$ 69.68	\$ 31.57
Total Opex				\$ 129.91	\$ 15.38	\$ 12.68	\$ 15.43	\$ 215.17

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4770  
Responses to Division's Twenty-Third Set of Data Requests  
Issued February 12, 2018

Division 23-4

Request:

Please identify the allocator used to allocate any metering-related costs shared with other jurisdictions that are included in the Historical Test Year and Rate Year 1 (including the description and SAP Allocation Code from Attachment DIV 12-13). Please also identify the total shared cost in Rate Year 1.

Response:

The summary table below provides a view of all costs charged from National Grid USA Service Company, Inc. to Narragansett Electric and Narragansett Gas for the Test Year and Rate Year 1 relating to meter-related costs using the Allocation Codes from Attachment DIV 12-13. For each amount, this summary identifies which FERC code, allocation code, originating order, and receiving order relate to that amount. This summary provides the FERC codes that relate to meter-expenses (586 Meter Expense, 597 Maintenance of Meters, 878 Meter and House Regulator Expense, and 893 Maintenance of Meters and House Regulators). The Rate Year 1 column was developed by applying an inflation rate of 4.63 percent to the Test Year dollars.

FERC Indicator	Allocation Code - Key	Originating WBS - Key	Receiving WBS - Key	Test Year OpEx	Rate Year 1 OpEX
586	C194	X012264.DO1742	Y060398.DO1742	1,070.78	1,120.35
	C284	X000624.AG0665	Y023806.AG0665	56,443.60	59,056.94
	C284	X001474.DO1706	Y024287.DO1706	22,017.03	23,036.42
	C284	X001474.DO1742	Y024287.DO1742	90,313.04	94,494.53
	C284	X001474.DO1909	Y024287.DO1909	8,968.08	9,383.30
	C290	X001980.DO1742	Y024552.DO1742	22.55	23.59
	T198	X015498.DO1742	Y074829.DO1742	211.14	220.92
	T284	X002479.DE0657	Y024850.DE0657	13,145.38	13,754.01
	T284	X002479.DE0658	Y024850.DE0658	23,299.94	24,378.73
597	536E	X008618.DM1711	Y051816.DM1711	3,813.19	3,989.74
	536E	X008618.DM1847	Y051816.DM1847	48,416.26	50,657.93
	G186	X015143.CM8019	Y073169.CMD103	14,356.43	15,021.13
878	536E	X008618.AG0009	Y051816.AG0009	9,037.07	9,455.49
	536G	X014419.GOC878	N011800.GOC878	8,339.07	8,725.17
	536T	X008777.AG0009	Y051818.AG0009	3,411.87	3,569.84
	C210	X012265.G00132	Y060402.G00132	566.44	592.67
	G313	X001479.G00121	Y026874.G00121	79.90	83.60
	G313	X001479.G00136	Y026874.G00136	963.28	1,007.88
893	G313	X001479.GM0102	Y026874.GM0102	23,132.01	24,203.02
	G313	X001479.GM0103	Y026874.GM0103	39,971.68	41,822.36
	G313	X001479.GM0104	Y026874.GM0104	2,348.16	2,456.88
	G313	X001479.GM0115	Y026874.GM0115	23,926.61	25,034.41
Grand Total				393,853.51	412,088.93

(This response is identical to the Company's response to Division 7-4 in Docket No. 4780.)

Division 23-5

Request:

Please provide an itemization of the estimated costs used to develop the estimate for the cost of the AMI study. Please also provide an itemization of the estimated costs used to develop the estimates for the AMI study proposed for New York. If the Company expects the parts of the studies for both jurisdictions will have overlap, please also show the itemization on a combined basis.

Response:

The Company developed the \$2 million estimate of Rhode Island AMI study costs by taking into consideration the estimate for the Niagara Mohawk Power Corporation (Niagara Mohawk) AMI study. Attachment DIV 23-5, Page 1, provides the itemization of the estimated costs of the AMI work activities that Niagara Mohawk plans to undertake in 2018 to continue the development of its AMI plan. Those costs are estimated at \$2.988 million, as shown in the attachment. The Company expects to undertake similar activities and incur a similar level of costs in Rhode Island to advance the Rhode Island AMI plan. The itemization of estimated costs on a combined Rhode Island and Niagara Mohawk basis is included on Page 2 of Attachment DIV 23-5. The estimate for the combined study is \$4.045 million.

(This response is identical to the Company's response to Division 7-5 in Docket No. 4780.)

Niagara Mohawk 2018 AMI Work Plan Activities and Estimated Costs

Activities	Scope	Required Functions													
		Project Lead/Staff	Procurement	IS	Cyber/ Digital Security	Meter Eng.	MDS	NES/Customer	Pricing/Regulatory	CMS	Telecom	Meter Asset Mgmt.	Legal	Consultants	Total
Stakeholder Collaboration	Meeting preparation , documentation, follow-up Input to detailed plan elements Options development & analysis	X	AN	X	AN	X	X	X	X	X	AN	X	X	X	
Customer Engagement Plan	Customer education Data sharing : GBC/Portal Rate design pilots Collaboration/revenue oport. AMI opt-out Data privacy/Cyber	X		X	X		X	X	X				X	X	
Metrics	Measures/frequency Customer surveys	X					X	X	X	X					
Meter deployment plan	Geographic plan/logistics	X				X	X	X	X	X	X	X			
Organization and Process Change Assessment (Day-1 Readiness related)	Identify organization and process impacts	X			X	X	X	X		X	X	X		X	
Procurement	RFP SaaS vs own, Multi-comp	X	X	X	X	X	X	X	X	X	X	X		X	
Business Case/BCA filing	Revised business case	X						X	X			X	X		
FTEs	Annual estimate	3	1	1	0.25	0.5	0.5	1	1	0.5	0.5	1	0.5		10.75
<b>Costs</b>		<b>\$ 498,900.00</b>	<b>\$ 166,300.00</b>	<b>\$ 166,300.00</b>	<b>\$ 41,575.00</b>	<b>\$ 83,150.00</b>	<b>\$ 83,150.00</b>	<b>\$ 166,300.00</b>	<b>\$ 166,300.00</b>	<b>\$ 83,150.00</b>	<b>\$ 83,150.00</b>	<b>\$ 166,300.00</b>	<b>\$ 83,150.00</b>	<b>\$ 1,200,000</b>	<b>\$ 2,987,725.00</b>

AN - Function Support As Needed

X - Function Support Required



Rhode Island and Niagara Mohawk 2018 AMI Work Plan Activities and Estimated Costs

Activities	Scope	Required Functions													
		Project Lead/Staff	Procurement	IS	Cyber/ Digital Security	Meter Eng.	MDS	NES/Customer	Pricing/Regulatory	CMS	Telecom	Meter Asset Mgmt.	Legal	Consultants	Total
Stakeholder Collaboration	<ul style="list-style-type: none"> <li>Meeting preparation , documentation, follow-up</li> <li>Input to detailed plan elements</li> <li>Options development &amp; analysis</li> </ul>	X	AN	X	AN	X	X	X	X	X	AN	X	X	X	
Customer Engagement Plan	<ul style="list-style-type: none"> <li>Customer education</li> <li>Data sharing : GBC/Portal</li> <li>Rate design pilots</li> <li>Collaboration/revenue opport.</li> <li>AMI opt-out</li> <li>Data privacy/Cyber</li> </ul>	X		X	X		X	X	X				X	X	
Metrics	<ul style="list-style-type: none"> <li>Measures/frequency</li> <li>Customer surveys</li> </ul>	X					X	X	X	X					
Meter deployment plan	<ul style="list-style-type: none"> <li>Geographic plan/logistics</li> </ul>	X				X	X	X	X	X	X	X			
Organization and Process Change Assessment (Day-1 Readiness related)	<ul style="list-style-type: none"> <li>Identify organization and process impacts</li> </ul>	X			X	X	X	X		X	X	X		X	
Procurement	<ul style="list-style-type: none"> <li>RFP</li> <li>SaaS vs own, Multi-comp</li> </ul>	X	X	X	X	X	X	X	X	X	X	X		X	
Business Case/BCA filing	<ul style="list-style-type: none"> <li>Revised business case</li> </ul>	X						X	X			X	X		
FTEs	<ul style="list-style-type: none"> <li>Annual estimate</li> </ul>	3	1	1	0.5	0.5	1.5	1.5	1	0.5	1	1	1		13.5
<b>Costs</b>		<b>\$ 498,900.00</b>	<b>\$ 166,300.00</b>	<b>\$ 166,300.00</b>	<b>\$ 83,150.00</b>	<b>\$ 83,150.00</b>	<b>\$ 249,450.00</b>	<b>\$ 249,450.00</b>	<b>\$ 166,300.00</b>	<b>\$ 83,150.00</b>	<b>\$ 166,300.00</b>	<b>\$ 166,300.00</b>	<b>\$ 166,300.00</b>	<b>\$ 1,800,000.00</b>	<b>\$ 4,045,050.00</b>

AN - Function Support As Needed  
X - Function Support Required

Division 23-6

Request:

Please indicate what the annual Service Company Rent would be to Rhode Island for the AMI study if the cost of the AMI study was capitalized over the expected life of the AMI program. Please provide a schedule showing the calculation for this item over the life of the AMI program.

Response:

The AMI Study represents the Preliminary Project Stage of this project. The accounting for the costs of computer software developed or purchased for internal use is driven by the Statement of Position 98-1 as codified by the Financial Accounting Standards Board as ASC 350-40. The Preliminary Project Stage of Information Services (IS) investments must be charged to O&M expense under these accounting rules.

The annual National Grid USA Service Company, Inc. (Service Company) rent assuming that the costs of the AMI study are capitalized and amortized over the life of the AMI program would be as follows –

Year	Electric	Gas	Total
1	\$104,336	\$56,654	\$160,991
2	\$100,285	\$54,455	\$154,740
3	\$96,235	\$52,255	\$148,490
4	\$92,184	\$50,055	\$142,239
5	\$88,133	\$47,856	\$135,989
6	\$84,082	\$45,656	\$129,738
7	\$80,031	\$43,457	\$123,487
8	\$75,980	\$41,257	\$117,237
9	\$71,929	\$39,057	\$110,986
10	\$67,878	\$36,858	\$104,736
Total	\$861,072	\$467,560	\$1,328,633

Please see Attachment DIV 23-6 for the calculation of the Service Company rent for the AMI study costs. For this schedule, the Company used the joint Niagara Mohawk Power Corporation and Company study cost estimate of \$4.045 million included in the Company's response to Division 23-5 and amortized the costs over 10 years to match the other Service Company assets related to AMI.

(This response is identical to the Company's response to Division 7-6 in Docket No. 4780.)

Investment			Amortization	Beginning	Ending	Average	Service Co	Rate Year	RY Return on	Total	Rate Year	Narragansett	Narragansett	Narragansett	Narragansett	Narragansett
Name	Total Spend	In Service Date	Period	Balance	Balance	Balance	Return	Return	Accum Taxes	Return	Amortization	Electric	Electric RY Rent	Electric RY Rent -	Gas	Gas RY Rent
												Return	Depn		Return	Depn
1	AMT Study	\$4,045,000	9/2/2019	120	\$4,045,000	\$4,011,292	\$4,028,146	0.71%	\$28,411	(\$7,762)	\$20,649	\$33,708	16.28%	\$3,362	\$5,488	\$1,825
2		\$4,011,292	10/1/2019	119	\$4,011,292	\$3,977,583	\$3,994,438	0.71%	\$28,174	(\$7,697)	\$20,477	\$33,708	16.28%	\$3,334	\$5,488	\$1,810
3		\$3,977,583	11/1/2019	118	\$3,977,583	\$3,943,875	\$3,960,729	0.71%	\$27,936	(\$7,632)	\$20,304	\$33,708	16.28%	\$3,305	\$5,488	\$1,795
4		\$3,943,875	12/1/2019	117	\$3,943,875	\$3,910,167	\$3,927,021	0.71%	\$27,698	(\$7,567)	\$20,131	\$33,708	16.28%	\$3,277	\$5,488	\$1,780
5		\$3,910,167	1/1/2020	116	\$3,910,167	\$3,876,458	\$3,893,313	0.71%	\$27,460	(\$7,502)	\$19,958	\$33,708	16.28%	\$3,249	\$5,488	\$1,764
6		\$3,876,458	2/1/2020	115	\$3,876,458	\$3,842,750	\$3,859,604	0.71%	\$27,223	(\$7,437)	\$19,785	\$33,708	16.28%	\$3,221	\$5,488	\$1,749
7		\$3,842,750	3/1/2020	114	\$3,842,750	\$3,809,042	\$3,825,896	0.71%	\$26,985	(\$7,372)	\$19,613	\$33,708	16.28%	\$3,193	\$5,488	\$1,734
8		\$3,809,042	4/1/2020	113	\$3,809,042	\$3,775,333	\$3,792,188	0.71%	\$26,747	(\$7,307)	\$19,440	\$33,708	16.28%	\$3,165	\$5,488	\$1,718
9		\$3,775,333	5/1/2020	112	\$3,775,333	\$3,741,625	\$3,758,479	0.71%	\$26,509	(\$7,242)	\$19,267	\$33,708	16.28%	\$3,137	\$5,488	\$1,703
10		\$3,741,625	6/1/2020	111	\$3,741,625	\$3,707,917	\$3,724,771	0.71%	\$26,272	(\$7,177)	\$19,094	\$33,708	16.28%	\$3,109	\$5,488	\$1,688
11		\$3,707,917	7/1/2020	110	\$3,707,917	\$3,674,208	\$3,691,063	0.71%	\$26,034	(\$7,112)	\$18,921	\$33,708	16.28%	\$3,080	\$5,488	\$1,673
12		\$3,674,208	8/1/2020	109	\$3,674,208	\$3,640,500	\$3,657,354	0.71%	\$25,796	(\$7,047)	\$18,749	\$33,708	16.28%	\$3,052	\$5,488	\$1,657
13		\$3,640,500	9/1/2020	108	\$3,640,500	\$3,606,792	\$3,623,646	0.71%	\$25,558	(\$6,983)	\$18,576	\$33,708	16.28%	\$3,024	\$5,488	\$1,642
14		\$3,606,792	10/1/2020	107	\$3,606,792	\$3,573,083	\$3,589,938	0.71%	\$25,320	(\$6,918)	\$18,403	\$33,708	16.28%	\$2,996	\$5,488	\$1,627
15		\$3,573,083	11/1/2020	106	\$3,573,083	\$3,539,375	\$3,556,229	0.71%	\$25,083	(\$6,853)	\$18,230	\$33,708	16.28%	\$2,968	\$5,488	\$1,612
16		\$3,539,375	12/1/2020	105	\$3,539,375	\$3,505,667	\$3,522,521	0.71%	\$24,845	(\$6,788)	\$18,057	\$33,708	16.28%	\$2,940	\$5,488	\$1,596
17		\$3,505,667	1/1/2021	104	\$3,505,667	\$3,471,958	\$3,488,813	0.71%	\$24,607	(\$6,723)	\$17,885	\$33,708	16.28%	\$2,912	\$5,488	\$1,581
18		\$3,471,958	2/1/2021	103	\$3,471,958	\$3,438,250	\$3,455,104	0.71%	\$24,369	(\$6,658)	\$17,712	\$33,708	16.28%	\$2,883	\$5,488	\$1,566
19		\$3,438,250	3/1/2021	102	\$3,438,250	\$3,404,542	\$3,421,396	0.71%	\$24,132	(\$6,593)	\$17,539	\$33,708	16.28%	\$2,855	\$5,488	\$1,550
20		\$3,404,542	4/1/2021	101	\$3,404,542	\$3,370,833	\$3,387,688	0.71%	\$23,894	(\$6,528)	\$17,366	\$33,708	16.28%	\$2,827	\$5,488	\$1,535
21		\$3,370,833	5/1/2021	100	\$3,370,833	\$3,337,125	\$3,353,979	0.71%	\$23,656	(\$6,463)	\$17,193	\$33,708	16.28%	\$2,799	\$5,488	\$1,520
22		\$3,337,125	6/1/2021	99	\$3,337,125	\$3,303,417	\$3,320,271	0.71%	\$23,418	(\$6,398)	\$17,021	\$33,708	16.28%	\$2,771	\$5,488	\$1,505
23		\$3,303,417	7/1/2021	98	\$3,303,417	\$3,269,708	\$3,286,563	0.71%	\$23,181	(\$6,333)	\$16,848	\$33,708	16.28%	\$2,743	\$5,488	\$1,489
24		\$3,269,708	8/1/2021	97	\$3,269,708	\$3,236,000	\$3,252,854	0.71%	\$22,943	(\$6,268)	\$16,675	\$33,708	16.28%	\$2,715	\$5,488	\$1,474
25		\$3,236,000	9/1/2021	96	\$3,236,000	\$3,202,292	\$3,219,146	0.71%	\$22,705	(\$6,203)	\$16,502	\$33,708	16.28%	\$2,687	\$5,488	\$1,459
26		\$3,202,292	10/1/2021	95	\$3,202,292	\$3,168,583	\$3,185,438	0.71%	\$22,467	(\$6,138)	\$16,329	\$33,708	16.28%	\$2,658	\$5,488	\$1,444
27		\$3,168,583	11/1/2021	94	\$3,168,583	\$3,134,875	\$3,151,729	0.71%	\$22,230	(\$6,073)	\$16,157	\$33,708	16.28%	\$2,630	\$5,488	\$1,428
28		\$3,134,875	12/1/2021	93	\$3,134,875	\$3,101,167	\$3,118,021	0.71%	\$21,992	(\$6,008)	\$15,984	\$33,708	16.28%	\$2,602	\$5,488	\$1,413
29		\$3,101,167	1/1/2022	92	\$3,101,167	\$3,067,458	\$3,084,313	0.71%	\$21,754	(\$5,943)	\$15,811	\$33,708	16.28%	\$2,574	\$5,488	\$1,398
30		\$3,067,458	2/1/2022	91	\$3,067,458	\$3,033,750	\$3,050,604	0.71%	\$21,516	(\$5,878)	\$15,638	\$33,708	16.28%	\$2,546	\$5,488	\$1,382
31		\$3,033,750	3/1/2022	90	\$3,033,750	\$3,000,042	\$3,016,896	0.71%	\$21,279	(\$5,813)	\$15,465	\$33,708	16.28%	\$2,518	\$5,488	\$1,367
32		\$3,000,042	4/1/2022	89	\$3,000,042	\$2,966,333	\$2,983,188	0.71%	\$21,041	(\$5,748)	\$15,293	\$33,708	16.28%	\$2,490	\$5,488	\$1,352
33		\$2,966,333	5/1/2022	88	\$2,966,333	\$2,932,625	\$2,949,479	0.71%	\$20,803	(\$5,683)	\$15,120	\$33,708	16.28%	\$2,462	\$5,488	\$1,337
34		\$2,932,625	6/1/2022	87	\$2,932,625	\$2,898,917	\$2,915,771	0.71%	\$20,565	(\$5,618)	\$14,947	\$33,708	16.28%	\$2,433	\$5,488	\$1,321
35		\$2,898,917	7/1/2022	86	\$2,898,917	\$2,865,208	\$2,882,062	0.71%	\$20,328	(\$5,554)	\$14,774	\$33,708	16.28%	\$2,405	\$5,488	\$1,306
36		\$2,865,208	8/1/2022	85	\$2,865,208	\$2,831,500	\$2,848,354	0.71%	\$20,090	(\$5,489)	\$14,601	\$33,708	16.28%	\$2,377	\$5,488	\$1,291
37		\$2,831,500	9/1/2022	84	\$2,831,500	\$2,797,792	\$2,814,646	0.71%	\$19,852	(\$5,424)	\$14,429	\$33,708	16.28%	\$2,349	\$5,488	\$1,275
38		\$2,797,792	10/1/2022	83	\$2,797,792	\$2,764,083	\$2,780,937	0.71%	\$19,614	(\$5,359)	\$14,256	\$33,708	16.28%	\$2,321	\$5,488	\$1,260
39		\$2,764,083	11/1/2022	82	\$2,764,083	\$2,730,375	\$2,747,229	0.71%	\$19,377	(\$5,294)	\$14,083	\$33,708	16.28%	\$2,293	\$5,488	\$1,245
40		\$2,730,375	12/1/2022	81	\$2,730,375	\$2,696,667	\$2,713,521	0.71%	\$19,139	(\$5,229)	\$13,910	\$33,708	16.28%	\$2,265	\$5,488	\$1,230
41		\$2,696,667	1/1/2023	80	\$2,696,667	\$2,662,958	\$2,679,812	0.71%	\$18,901	(\$5,164)	\$13,737	\$33,708	16.28%	\$2,236	\$5,488	\$1,214
42		\$2,662,958	2/1/2023	79	\$2,662,958	\$2,629,250	\$2,646,104	0.71%	\$18,663	(\$5,099)	\$13,565	\$33,708	16.28%	\$2,208	\$5,488	\$1,199
43		\$2,629,250	3/1/2023	78	\$2,629,250	\$2,595,542	\$2,612,396	0.71%	\$18,426	(\$5,034)	\$13,392	\$33,708	16.28%	\$2,180	\$5,488	\$1,184
44		\$2,595,542	4/1/2023	77	\$2,595,542	\$2,561,833	\$2,578,687	0.71%	\$18,188	(\$4,969)	\$13,219	\$33,708	16.28%	\$2,152	\$5,488	\$1,169
45		\$2,561,833	5/1/2023	76	\$2,561,833	\$2,528,125	\$2,544,979	0.71%	\$17,950	(\$4,904)	\$13,046	\$33,708	16.28%	\$2,124	\$5,488	\$1,153
46		\$2,528,125	6/1/2023	75	\$2,528,125	\$2,494,417	\$2,511,271	0.71%	\$17,712	(\$4,839)	\$12,873	\$33,708	16.28%	\$2,096	\$5,488	\$1,138
47		\$2,494,417	7/1/2023	74	\$2,494,417	\$2,460,708	\$2,477,562	0.71%	\$17,475	(\$4,774)	\$12,701	\$33,708	16.28%	\$2,068	\$5,488	\$1,123
48		\$2,460,708	8/1/2023	73	\$2,460,708	\$2,427,000	\$2,443,854	0.71%	\$17,237	(\$4,709)	\$12,528	\$33,708	16.28%	\$2,040	\$5,488	\$1,107
49		\$2,427,000	9/1/2023	72	\$2,427,000	\$2,393,292	\$2,410,146	0.71%	\$16,999	(\$4,644)	\$12,355	\$33,708	16.28%	\$2,011	\$5,488	\$1,092
50		\$2,393,292	10/1/2023	71	\$2,393,292	\$2,359,583	\$2,376,437	0.71%	\$16,761	(\$4,579)	\$12,182	\$33,708	16.28%	\$1,983	\$5,488	\$1,077
51		\$2,359,583	11/1/2023	70	\$2,359,583	\$2,325,875	\$2,342,729	0.71%	\$16,524	(\$4,514)	\$12,009	\$33,708	16.28%	\$1,955	\$5,488	\$1,062
52		\$2,325,875	12/1/2023	69	\$2,325,875	\$2,292,167	\$2,309,021	0.71%	\$16,286	(\$4,449)	\$11,837	\$33,708	16.28%	\$1,927	\$5,488	\$1,046
53		\$2,292,167	1/1/2024	68	\$2,292,167	\$2,258,458	\$2,275,312	0.71%	\$16,048	(\$4,384)	\$11,664	\$33,708	16.28%	\$1,899	\$5,488	\$1,031
54		\$2,258,458	2/1/2024	67	\$2,258,458	\$2,224,750	\$2,241,604	0.71%	\$15,810	(\$4,319)	\$11,491	\$33,708	16.28%	\$1,871	\$5,488	\$1,016
55		\$2,224,750	3/1/2024	66	\$2,224,750	\$2,191,042	\$2,207,896	0.71%	\$15,573	(\$4,254)	\$11,318	\$33,708	16.28%	\$1,843	\$5,488	\$1,001
56		\$2,191,042	4/1/2024	65	\$2,191,042	\$2,157,333	\$2,174,188	0.71%	\$15,335	(\$4,190)	\$11,145	\$33,708	16.28%	\$1,814	\$5,488	\$985
57		\$2,157,333	5/1/2024	64	\$2,157,333	\$2,123,625	\$2,140,479	0.71%	\$15,097	(\$4,125)	\$10,973	\$33,708	16.28%	\$1,786	\$5,488	\$970
58		\$2,123,625	6/1/2024	63	\$2,123,625	\$2,089,917	\$2,106,771	0.71%	\$14,859	(\$4,060)	\$10,800	\$33,708	16.28%	\$1,758	\$5,488	\$955
59		\$2,089,917	7/1/2024	62	\$2,089,917	\$2,056,208	\$2,073,063	0.71%	\$14,622	(\$3,995)	\$10,627	\$33,708	16.28%	\$1,730	\$5,488	\$939
60		\$2,056,208	8/1/2024	61	\$2,056,208	\$2,022,500	\$2,039,354	0.71%	\$14,384	(\$3,930)	\$10,454	\$33,708	16.28%	\$1,702	\$5,488	\$924
61		\$2,022,500	9/1/2024	60	\$2,022,500	\$1,988,792	\$2,005,646	0.71%	\$14,146	(\$3,865)	\$10,281	\$33,708	16.28%	\$1,674	\$5,488	\$909
62		\$1,988,792	10/1/2024	59	\$1,988,792	\$1,955,083	\$1,971,938	0.71%	\$13,908	(\$3,800)	\$10,109	\$33,708	16.28%	\$1,646	\$5,488	\$894
63		\$1,955,083	11/1/2024	58	\$1,955,083	\$1,921,375	\$1,938,229	0.71%	\$13,671	(\$3,735)	\$9,936	\$33,708	16.28%	\$1,618	\$5,488	\$878
64		\$1,921,375	12/1/2024	57	\$1,921,375	\$1,887,667	\$1,904,521	0.71%	\$13,433	(\$3,670)	\$9,763	\$33,708	16.28%	\$1,589	\$5,488	\$863
65		\$1,887,6														

Investment			Amortization	Beginning	Ending	Average	Service Co	Rate Year	RY Return on	Total	Rate Year	Narragansett	Narragansett	Narragansett	Narragansett	Narragansett
Name	Total Spend	In Service Date	Period	Balance	Balance	Balance	Return	Return	Accum Taxes	Return	Amortization	Electric	Electric RY Rent	Electric RY Rent -	Gas	Gas RY Rent
													Return	Depn		Depn
72	\$1,651,708	8/1/2025	49	\$1,651,708	\$1,618,000	\$1,634,854	0.71%	\$11,531	(\$3,150)	\$8,381	\$33,708	16.28%	\$1,364	\$5,488	8.84%	\$2,980
73	\$1,618,000	9/1/2025	48	\$1,618,000	\$1,584,292	\$1,601,146	0.71%	\$11,293	(\$3,085)	\$8,208	\$33,708	16.28%	\$1,336	\$5,488	8.84%	\$2,980
74	\$1,584,292	10/1/2025	47	\$1,584,292	\$1,550,583	\$1,567,438	0.71%	\$11,055	(\$3,020)	\$8,035	\$33,708	16.28%	\$1,308	\$5,488	8.84%	\$2,980
75	\$1,550,583	11/1/2025	46	\$1,550,583	\$1,516,875	\$1,533,729	0.71%	\$10,818	(\$2,955)	\$7,862	\$33,708	16.28%	\$1,280	\$5,488	8.84%	\$2,980
76	\$1,516,875	12/1/2025	45	\$1,516,875	\$1,483,167	\$1,500,021	0.71%	\$10,580	(\$2,890)	\$7,689	\$33,708	16.28%	\$1,252	\$5,488	8.84%	\$2,980
77	\$1,483,167	1/1/2026	44	\$1,483,167	\$1,449,458	\$1,466,313	0.71%	\$10,342	(\$2,825)	\$7,517	\$33,708	16.28%	\$1,224	\$5,488	8.84%	\$2,980
78	\$1,449,458	2/1/2026	43	\$1,449,458	\$1,415,750	\$1,432,604	0.71%	\$10,104	(\$2,761)	\$7,344	\$33,708	16.28%	\$1,196	\$5,488	8.84%	\$2,980
79	\$1,415,750	3/1/2026	42	\$1,415,750	\$1,382,042	\$1,398,896	0.71%	\$9,867	(\$2,696)	\$7,171	\$33,708	16.28%	\$1,167	\$5,488	8.84%	\$2,980
80	\$1,382,042	4/1/2026	41	\$1,382,042	\$1,348,333	\$1,365,188	0.71%	\$9,629	(\$2,631)	\$6,998	\$33,708	16.28%	\$1,139	\$5,488	8.84%	\$2,980
81	\$1,348,333	5/1/2026	40	\$1,348,333	\$1,314,625	\$1,331,479	0.71%	\$9,391	(\$2,566)	\$6,826	\$33,708	16.28%	\$1,111	\$5,488	8.84%	\$2,980
82	\$1,314,625	6/1/2026	39	\$1,314,625	\$1,280,917	\$1,297,771	0.71%	\$9,153	(\$2,501)	\$6,653	\$33,708	16.28%	\$1,083	\$5,488	8.84%	\$2,980
83	\$1,280,917	7/1/2026	38	\$1,280,917	\$1,247,208	\$1,264,063	0.71%	\$8,916	(\$2,436)	\$6,480	\$33,708	16.28%	\$1,055	\$5,488	8.84%	\$2,980
84	\$1,247,208	8/1/2026	37	\$1,247,208	\$1,213,500	\$1,230,354	0.71%	\$8,678	(\$2,371)	\$6,307	\$33,708	16.28%	\$1,027	\$5,488	8.84%	\$2,980
85	\$1,213,500	9/1/2026	36	\$1,213,500	\$1,179,792	\$1,196,646	0.71%	\$8,440	(\$2,306)	\$6,134	\$33,708	16.28%	\$999	\$5,488	8.84%	\$2,980
86	\$1,179,792	10/1/2026	35	\$1,179,792	\$1,146,083	\$1,162,938	0.71%	\$8,202	(\$2,241)	\$5,962	\$33,708	16.28%	\$971	\$5,488	8.84%	\$2,980
87	\$1,146,083	11/1/2026	34	\$1,146,083	\$1,112,375	\$1,129,229	0.71%	\$7,965	(\$2,176)	\$5,789	\$33,708	16.28%	\$942	\$5,488	8.84%	\$2,980
88	\$1,112,375	12/1/2026	33	\$1,112,375	\$1,078,667	\$1,095,521	0.71%	\$7,727	(\$2,111)	\$5,616	\$33,708	16.28%	\$914	\$5,488	8.84%	\$2,980
89	\$1,078,667	1/1/2027	32	\$1,078,667	\$1,044,958	\$1,061,813	0.71%	\$7,489	(\$2,046)	\$5,443	\$33,708	16.28%	\$886	\$5,488	8.84%	\$2,980
90	\$1,044,958	2/1/2027	31	\$1,044,958	\$1,011,250	\$1,028,104	0.71%	\$7,251	(\$1,981)	\$5,270	\$33,708	16.28%	\$858	\$5,488	8.84%	\$2,980
91	\$1,011,250	3/1/2027	30	\$1,011,250	\$977,542	\$994,396	0.71%	\$7,014	(\$1,916)	\$5,098	\$33,708	16.28%	\$830	\$5,488	8.84%	\$2,980
92	\$977,542	4/1/2027	29	\$977,542	\$943,833	\$960,687	0.71%	\$6,776	(\$1,851)	\$4,925	\$33,708	16.28%	\$802	\$5,488	8.84%	\$2,980
93	\$943,833	5/1/2027	28	\$943,833	\$910,125	\$926,979	0.71%	\$6,538	(\$1,786)	\$4,752	\$33,708	16.28%	\$774	\$5,488	8.84%	\$2,980
94	\$910,125	6/1/2027	27	\$910,125	\$876,417	\$893,271	0.71%	\$6,300	(\$1,721)	\$4,579	\$33,708	16.28%	\$745	\$5,488	8.84%	\$2,980
95	\$876,417	7/1/2027	26	\$876,417	\$842,708	\$859,562	0.71%	\$6,063	(\$1,656)	\$4,406	\$33,708	16.28%	\$717	\$5,488	8.84%	\$2,980
96	\$842,708	8/1/2027	25	\$842,708	\$809,000	\$825,854	0.71%	\$5,825	(\$1,591)	\$4,234	\$33,708	16.28%	\$689	\$5,488	8.84%	\$2,980
97	\$809,000	9/1/2027	24	\$809,000	\$775,292	\$792,146	0.71%	\$5,587	(\$1,526)	\$4,061	\$33,708	16.28%	\$661	\$5,488	8.84%	\$2,980
98	\$775,292	10/1/2027	23	\$775,292	\$741,583	\$758,437	0.71%	\$5,349	(\$1,461)	\$3,888	\$33,708	16.28%	\$633	\$5,488	8.84%	\$2,980
99	\$741,583	11/1/2027	22	\$741,583	\$707,875	\$724,729	0.71%	\$5,112	(\$1,397)	\$3,715	\$33,708	16.28%	\$605	\$5,488	8.84%	\$2,980
100	\$707,875	12/1/2027	21	\$707,875	\$674,167	\$691,021	0.71%	\$4,874	(\$1,332)	\$3,542	\$33,708	16.28%	\$577	\$5,488	8.84%	\$2,980
101	\$674,167	1/1/2028	20	\$674,167	\$640,458	\$657,312	0.71%	\$4,636	(\$1,267)	\$3,370	\$33,708	16.28%	\$549	\$5,488	8.84%	\$2,980
102	\$640,458	2/1/2028	19	\$640,458	\$606,750	\$623,604	0.71%	\$4,398	(\$1,202)	\$3,197	\$33,708	16.28%	\$520	\$5,488	8.84%	\$2,980
103	\$606,750	3/1/2028	18	\$606,750	\$573,042	\$589,896	0.71%	\$4,161	(\$1,137)	\$3,024	\$33,708	16.28%	\$492	\$5,488	8.84%	\$2,980
104	\$573,042	4/1/2028	17	\$573,042	\$539,333	\$556,187	0.71%	\$3,923	(\$1,072)	\$2,851	\$33,708	16.28%	\$464	\$5,488	8.84%	\$2,980
105	\$539,333	5/1/2028	16	\$539,333	\$505,625	\$522,479	0.71%	\$3,685	(\$1,007)	\$2,678	\$33,708	16.28%	\$436	\$5,488	8.84%	\$2,980
106	\$505,625	6/1/2028	15	\$505,625	\$471,917	\$488,771	0.71%	\$3,447	(\$942)	\$2,506	\$33,708	16.28%	\$408	\$5,488	8.84%	\$2,980
107	\$471,917	7/1/2028	14	\$471,917	\$438,208	\$455,062	0.71%	\$3,210	(\$877)	\$2,333	\$33,708	16.28%	\$380	\$5,488	8.84%	\$2,980
108	\$438,208	8/1/2028	13	\$438,208	\$404,500	\$421,354	0.71%	\$2,972	(\$812)	\$2,160	\$33,708	16.28%	\$352	\$5,488	8.84%	\$2,980
109	\$404,500	9/1/2028	12	\$404,500	\$370,792	\$387,646	0.71%	\$2,734	(\$747)	\$1,987	\$33,708	16.28%	\$324	\$5,488	8.84%	\$2,980
110	\$370,792	10/1/2028	11	\$370,792	\$337,083	\$353,937	0.71%	\$2,496	(\$682)	\$1,814	\$33,708	16.28%	\$295	\$5,488	8.84%	\$2,980
111	\$337,083	11/1/2028	10	\$337,083	\$303,375	\$320,229	0.71%	\$2,259	(\$617)	\$1,642	\$33,708	16.28%	\$267	\$5,488	8.84%	\$2,980
112	\$303,375	12/1/2028	9	\$303,375	\$269,667	\$286,521	0.71%	\$2,021	(\$552)	\$1,469	\$33,708	16.28%	\$239	\$5,488	8.84%	\$2,980
113	\$269,667	1/1/2029	8	\$269,667	\$235,958	\$252,813	0.71%	\$1,783	(\$487)	\$1,296	\$33,708	16.28%	\$211	\$5,488	8.84%	\$2,980
114	\$235,958	2/1/2029	7	\$235,958	\$202,250	\$219,104	0.71%	\$1,545	(\$422)	\$1,123	\$33,708	16.28%	\$183	\$5,488	8.84%	\$2,980
115	\$202,250	3/1/2029	6	\$202,250	\$168,542	\$185,396	0.71%	\$1,308	(\$357)	\$950	\$33,708	16.28%	\$155	\$5,488	8.84%	\$2,980
116	\$168,542	4/1/2029	5	\$168,542	\$134,833	\$151,688	0.71%	\$1,070	(\$292)	\$778	\$33,708	16.28%	\$127	\$5,488	8.84%	\$2,980
117	\$134,833	5/1/2029	4	\$134,833	\$101,125	\$117,979	0.71%	\$832	(\$227)	\$605	\$33,708	16.28%	\$98	\$5,488	8.84%	\$2,980
118	\$101,125	6/1/2029	3	\$101,125	\$67,417	\$84,271	0.71%	\$594	(\$162)	\$432	\$33,708	16.28%	\$70	\$5,488	8.84%	\$2,980
119	\$67,417	7/1/2029	2	\$67,417	\$33,708	\$50,562	0.71%	\$357	(\$97)	\$259	\$33,708	16.28%	\$42	\$5,488	8.84%	\$2,980
120	\$33,708	8/1/2029	1	\$33,708	\$0	\$16,854	0.71%	\$119	(\$32)	\$86	\$33,708	16.28%	\$14	\$5,488	8.84%	\$2,980

Division 23-7

Request:

If the AMI study cost was capitalized by the Service Company and Massachusetts later began using AMI systems shared with Rhode Island, would the amount of the Service Company rents be adjusted for Rhode Island when Massachusetts commenced AMI? If not, please explain why not. If yes, please restate the schedule developed in response to request (6) above (in two scenarios), showing the change in Service Company Rents to Rhode Island if Massachusetts commenced AMI two years and five years after Rhode Island implements AMI.

Response:

Yes, the National Grid USA Service Company, Inc. (Service Company) rents for the AMI study costs would be adjusted when a new operating company began using the Information Services (IS) system.

The annual Service Company rent assuming that the costs of the AMI study are capitalized and amortized over the life of the AMI program and Massachusetts commenced two years later would be as follows –

Year	Electric	Gas	Total
1	\$104,336	\$56,654	\$160,991
2	\$100,285	\$54,455	\$154,740
3	\$67,192	\$36,513	\$103,705
4	\$64,363	\$34,976	\$99,340
5	\$61,535	\$33,439	\$94,974
6	\$58,707	\$31,902	\$90,609
7	\$55,878	\$30,365	\$86,243
8	\$53,050	\$28,828	\$81,878
9	\$50,221	\$27,291	\$77,513
10	\$47,393	\$25,754	\$73,147
	\$662,961	\$360,179	\$1,023,139

If Massachusetts commenced five years later, the annual Service Company rent would be as follows-

Year	Electric	Gas	Total
1	\$104,336	\$56,654	\$160,991
2	\$100,285	\$54,455	\$154,740
3	\$96,235	\$52,255	\$148,490

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4770  
Responses to Division's Twenty-Third Set of Data Requests  
Issued February 12, 2018

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4	\$92,184	\$50,055	\$142,239
5	\$88,133	\$47,856	\$135,989
6	\$58,707	\$31,902	\$90,609
7	\$55,878	\$30,365	\$86,243
8	\$53,050	\$28,828	\$81,878
9	\$50,221	\$27,291	\$77,513
10	\$47,393	\$25,754	\$73,147
Total	\$746,422	\$405,417	\$1,151,838

Please see Attachment to DIV 23-7 for the calculation of the Service Company rent for the AMI study costs. For this schedule, the Company used the joint Niagara Mohawk Power Corporation and Company study cost estimate of \$4.045 million included in the Company's response to Division 23-5 and amortized the costs over 10 years to match the other Service Company assets related to AMI.

As noted in the Company's response to Division 23-6, the AMI Study represents the Preliminary Project Stage of this project. The accounting for the costs of computer software developed or purchased for internal use is driven by the Statement of Position 98-1 as codified by the Financial Accounting Standards Board as ASC 350-40. The Preliminary Project Stage of IS investments must be charged to O&M expense under these accounting rules.

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

MASSACHUSETTS IMPLEMENTATION AFTER 2 YEARS

Investment Name	Total Spend	In Service Date	Amortization Period	Beginning Balance	Ending Balance	Average Balance	Service Co Return	Rate Year Return	RY Return on Accum Taxes	Total Return	Rate Year Amortization	Narragansett Electric	Narragansett Electric RY Rent Return	Narragansett Electric RY Rent - Depn	Narragansett Gas	Narragansett Gas RY Rent Return	Narragansett Gas RY Rent - Depn
1 AMI Study	\$4,045,000	9/2/2019															
2	\$4,011,292	10/1/2019	120	\$4,045,000	\$4,011,292	\$4,028,146	0.71%	\$28,411	(\$7,762)	\$20,649	\$33,708	16.28%	\$3,362	\$5,488	8.84%	\$1,825	\$2,980
3	\$3,977,583	11/1/2019	119	\$4,011,292	\$3,977,583	\$3,994,438	0.71%	\$28,174	(\$7,697)	\$20,477	\$33,708	16.28%	\$3,334	\$5,488	8.84%	\$1,810	\$2,980
4	\$3,943,875	12/1/2019	118	\$3,977,583	\$3,943,875	\$3,960,729	0.71%	\$27,936	(\$7,632)	\$20,304	\$33,708	16.28%	\$3,305	\$5,488	8.84%	\$1,795	\$2,980
5	\$3,910,167	1/1/2020	117	\$3,943,875	\$3,910,167	\$3,927,021	0.71%	\$27,698	(\$7,567)	\$20,131	\$33,708	16.28%	\$3,277	\$5,488	8.84%	\$1,780	\$2,980
6	\$3,876,458	2/1/2020	116	\$3,910,167	\$3,876,458	\$3,893,313	0.71%	\$27,460	(\$7,502)	\$19,958	\$33,708	16.28%	\$3,249	\$5,488	8.84%	\$1,764	\$2,980
7	\$3,842,750	3/1/2020	115	\$3,876,458	\$3,842,750	\$3,859,604	0.71%	\$27,223	(\$7,437)	\$19,785	\$33,708	16.28%	\$3,221	\$5,488	8.84%	\$1,749	\$2,980
8	\$3,809,042	4/1/2020	114	\$3,842,750	\$3,809,042	\$3,825,896	0.71%	\$26,985	(\$7,372)	\$19,613	\$33,708	16.28%	\$3,193	\$5,488	8.84%	\$1,734	\$2,980
9	\$3,775,333	5/1/2020	113	\$3,809,042	\$3,775,333	\$3,792,188	0.71%	\$26,747	(\$7,307)	\$19,440	\$33,708	16.28%	\$3,165	\$5,488	8.84%	\$1,718	\$2,980
10	\$3,741,625	6/1/2020	112	\$3,775,333	\$3,741,625	\$3,758,479	0.71%	\$26,509	(\$7,242)	\$19,267	\$33,708	16.28%	\$3,137	\$5,488	8.84%	\$1,703	\$2,980
11	\$3,707,917	7/1/2020	111	\$3,741,625	\$3,707,917	\$3,724,771	0.71%	\$26,272	(\$7,177)	\$19,094	\$33,708	16.28%	\$3,109	\$5,488	8.84%	\$1,688	\$2,980
12	\$3,674,208	8/1/2020	110	\$3,707,917	\$3,674,208	\$3,691,063	0.71%	\$26,034	(\$7,112)	\$18,921	\$33,708	16.28%	\$3,080	\$5,488	8.84%	\$1,673	\$2,980
13	\$3,640,500	9/1/2020	109	\$3,674,208	\$3,640,500	\$3,657,354	0.71%	\$25,796	(\$7,047)	\$18,749	\$33,708	16.28%	\$3,052	\$5,488	8.84%	\$1,657	\$2,980
14	\$3,606,792	10/1/2020	108	\$3,640,500	\$3,606,792	\$3,623,646	0.71%	\$25,558	(\$6,983)	\$18,576	\$33,708	16.28%	\$3,024	\$5,488	8.84%	\$1,642	\$2,980
15	\$3,573,083	11/1/2020	107	\$3,606,792	\$3,573,083	\$3,589,938	0.71%	\$25,320	(\$6,918)	\$18,403	\$33,708	16.28%	\$2,996	\$5,488	8.84%	\$1,627	\$2,980
16	\$3,539,375	12/1/2020	106	\$3,573,083	\$3,539,375	\$3,556,229	0.71%	\$25,083	(\$6,853)	\$18,230	\$33,708	16.28%	\$2,968	\$5,488	8.84%	\$1,612	\$2,980
17	\$3,505,667	1/1/2021	105	\$3,539,375	\$3,505,667	\$3,522,521	0.71%	\$24,845	(\$6,788)	\$18,057	\$33,708	16.28%	\$2,940	\$5,488	8.84%	\$1,596	\$2,980
18	\$3,471,958	2/1/2021	104	\$3,505,667	\$3,471,958	\$3,488,813	0.71%	\$24,607	(\$6,723)	\$17,885	\$33,708	16.28%	\$2,912	\$5,488	8.84%	\$1,581	\$2,980
19	\$3,438,250	3/1/2021	103	\$3,471,958	\$3,438,250	\$3,455,104	0.71%	\$24,369	(\$6,658)	\$17,712	\$33,708	16.28%	\$2,883	\$5,488	8.84%	\$1,566	\$2,980
20	\$3,404,542	4/1/2021	102	\$3,438,250	\$3,404,542	\$3,421,396	0.71%	\$24,132	(\$6,593)	\$17,539	\$33,708	16.28%	\$2,855	\$5,488	8.84%	\$1,550	\$2,980
21	\$3,370,833	5/1/2021	101	\$3,404,542	\$3,370,833	\$3,387,688	0.71%	\$23,894	(\$6,528)	\$17,366	\$33,708	16.28%	\$2,827	\$5,488	8.84%	\$1,535	\$2,980
22	\$3,337,125	6/1/2021	100	\$3,370,833	\$3,337,125	\$3,353,979	0.71%	\$23,656	(\$6,463)	\$17,193	\$33,708	16.28%	\$2,799	\$5,488	8.84%	\$1,520	\$2,980
23	\$3,303,417	7/1/2021	99	\$3,337,125	\$3,303,417	\$3,320,271	0.71%	\$23,418	(\$6,398)	\$17,021	\$33,708	16.28%	\$2,771	\$5,488	8.84%	\$1,505	\$2,980
24	\$3,269,708	8/1/2021	98	\$3,303,417	\$3,269,708	\$3,286,563	0.71%	\$23,181	(\$6,333)	\$16,848	\$33,708	16.28%	\$2,743	\$5,488	8.84%	\$1,489	\$2,980
25	\$3,236,000	9/1/2021	97	\$3,269,708	\$3,236,000	\$3,252,854	0.71%	\$22,943	(\$6,268)	\$16,675	\$33,708	16.28%	\$2,715	\$5,488	8.84%	\$1,474	\$2,980
26	\$3,202,292	10/1/2021	96	\$3,236,000	\$3,202,292	\$3,219,146	0.71%	\$22,705	(\$6,203)	\$16,502	\$33,708	11.37%	\$1,876	\$3,832	6.18%	\$1,019	\$2,082
27	\$3,168,583	11/1/2021	95	\$3,202,292	\$3,168,583	\$3,185,438	0.71%	\$22,467	(\$6,138)	\$16,329	\$33,708	11.37%	\$1,856	\$3,832	6.18%	\$1,009	\$2,082
28	\$3,134,875	12/1/2021	94	\$3,168,583	\$3,134,875	\$3,151,729	0.71%	\$22,230	(\$6,073)	\$16,157	\$33,708	11.37%	\$1,836	\$3,832	6.18%	\$998	\$2,082
29	\$3,101,167	1/1/2022	93	\$3,134,875	\$3,101,167	\$3,118,021	0.71%	\$21,992	(\$6,008)	\$15,984	\$33,708	11.37%	\$1,817	\$3,832	6.18%	\$987	\$2,082
30	\$3,067,458	2/1/2022	92	\$3,101,167	\$3,067,458	\$3,084,313	0.71%	\$21,754	(\$5,943)	\$15,811	\$33,708	11.37%	\$1,797	\$3,832	6.18%	\$977	\$2,082
31	\$3,033,750	3/1/2022	91	\$3,067,458	\$3,033,750	\$3,050,604	0.71%	\$21,516	(\$5,878)	\$15,638	\$33,708	11.37%	\$1,778	\$3,832	6.18%	\$966	\$2,082
32	\$3,000,042	4/1/2022	90	\$3,033,750	\$3,000,042	\$3,016,896	0.71%	\$21,279	(\$5,813)	\$15,465	\$33,708	11.37%	\$1,758	\$3,832	6.18%	\$955	\$2,082
33	\$2,966,333	5/1/2022	89	\$3,000,042	\$2,966,333	\$2,983,188	0.71%	\$21,041	(\$5,748)	\$15,293	\$33,708	11.37%	\$1,738	\$3,832	6.18%	\$945	\$2,082
34	\$2,932,625	6/1/2022	88	\$2,966,333	\$2,932,625	\$2,949,479	0.71%	\$20,803	(\$5,683)	\$15,120	\$33,708	11.37%	\$1,719	\$3,832	6.18%	\$934	\$2,082
35	\$2,898,917	7/1/2022	87	\$2,932,625	\$2,898,917	\$2,915,771	0.71%	\$20,565	(\$5,618)	\$14,947	\$33,708	11.37%	\$1,699	\$3,832	6.18%	\$923	\$2,082
36	\$2,865,208	8/1/2022	86	\$2,898,917	\$2,865,208	\$2,882,062	0.71%	\$20,328	(\$5,554)	\$14,774	\$33,708	11.37%	\$1,679	\$3,832	6.18%	\$913	\$2,082
37	\$2,831,500	9/1/2022	85	\$2,865,208	\$2,831,500	\$2,848,354	0.71%	\$20,090	(\$5,489)	\$14,601	\$33,708	11.37%	\$1,660	\$3,832	6.18%	\$902	\$2,082
38	\$2,797,792	10/1/2022	84	\$2,831,500	\$2,797,792	\$2,814,646	0.71%	\$19,852	(\$5,424)	\$14,429	\$33,708	11.37%	\$1,640	\$3,832	6.18%	\$891	\$2,082
39	\$2,764,083	11/1/2022	83	\$2,797,792	\$2,764,083	\$2,780,937	0.71%	\$19,614	(\$5,359)	\$14,256	\$33,708	11.37%	\$1,620	\$3,832	6.18%	\$881	\$2,082
40	\$2,730,375	12/1/2022	82	\$2,764,083	\$2,730,375	\$2,747,229	0.71%	\$19,377	(\$5,294)	\$14,083	\$33,708	11.37%	\$1,601	\$3,832	6.18%	\$870	\$2,082
41	\$2,696,667	1/1/2023	81	\$2,730,375	\$2,696,667	\$2,713,521	0.71%	\$19,139	(\$5,229)	\$13,910	\$33,708	11.37%	\$1,581	\$3,832	6.18%	\$859	\$2,082
42	\$2,662,958	2/1/2023	80	\$2,696,667	\$2,662,958	\$2,679,812	0.71%	\$18,901	(\$5,164)	\$13,737	\$33,708	11.37%	\$1,562	\$3,832	6.18%	\$849	\$2,082
43	\$2,629,250	3/1/2023	79	\$2,662,958	\$2,629,250	\$2,646,104	0.71%	\$18,663	(\$5,099)	\$13,565	\$33,708	11.37%	\$1,542	\$3,832	6.18%	\$838	\$2,082
44	\$2,595,542	4/1/2023	78	\$2,629,250	\$2,595,542	\$2,612,396	0.71%	\$18,426	(\$5,034)	\$13,392	\$33,708	11.37%	\$1,522	\$3,832	6.18%	\$827	\$2,082
45	\$2,561,833	5/1/2023	77	\$2,595,542	\$2,561,833	\$2,578,687	0.71%	\$18,188	(\$4,969)	\$13,219	\$33,708	11.37%	\$1,503	\$3,832	6.18%	\$817	\$2,082
46	\$2,528,125	6/1/2023	76	\$2,561,833	\$2,528,125	\$2,544,979	0.71%	\$17,950	(\$4,904)	\$13,046	\$33,708	11.37%	\$1,483	\$3,832	6.18%	\$806	\$2,082
47	\$2,494,417	7/1/2023	75	\$2,528,125	\$2,494,417	\$2,511,271	0.71%	\$17,712	(\$4,839)	\$12,873	\$33,708	11.37%	\$1,463	\$3,832	6.18%	\$795	\$2,082
48	\$2,460,708	8/1/2023	74	\$2,494,417	\$2,460,708	\$2,477,562	0.71%	\$17,475	(\$4,774)	\$12,701	\$33,708	11.37%	\$1,444	\$3,832	6.18%	\$785	\$2,082
49	\$2,427,000	9/1/2023	73	\$2,460,708	\$2,427,000	\$2,443,854	0.71%	\$17,237	(\$4,709)	\$12,528	\$33,708	11.37%	\$1,424	\$3,832	6.18%	\$774	\$2,082
50	\$2,393,292	10/1/2023	72	\$2,427,000	\$2,393,292	\$2,410,146	0.71%	\$16,999	(\$4,644)	\$12,355	\$33,708	11.37%	\$1,404	\$3,832	6.18%	\$763	\$2,082
51	\$2,359,583	11/1/2023	71	\$2,393,292	\$2,359,583	\$2,376,437	0.71%	\$16,761	(\$4,579)	\$12,182	\$33,708	11.37%	\$1,385	\$3,832	6.18%	\$752	\$2,082
52	\$2,325,875	12/1/2023	70	\$2,359,583	\$2,325,875	\$2,342,729	0.71%	\$16,524	(\$4,514)	\$12,009	\$33,708	11.37%	\$1,365	\$3,832	6.18%	\$742	\$2,082
53	\$2,292,167	1/1/2024	69	\$2,325,875	\$2,292,167	\$2,309,021	0.71%	\$16,286	(\$4,449)	\$11,837	\$33,708	11.37%	\$1,345	\$3,832	6.18%	\$731	\$2,082
54	\$2,258,458	2/1/2024	68	\$2,292,167	\$2,258,458	\$2,275,312	0.71%	\$16,048	(\$4,384)	\$11,664	\$33,708	11.37%	\$1,326	\$3,832	6.18%	\$720	\$2,082
55	\$2,224,750	3/1/2024	67	\$2,258,458	\$2,224,750	\$2,241,604	0.71%	\$15,810	(\$4,319)	\$11,491	\$33,708	11.37%	\$1,306	\$3,832	6.18%	\$710	\$2,082
56	\$2,191,042	4/1/2024	66	\$2,224,750	\$2,191,042	\$2,207,896	0.71%	\$15,573	(\$4,254)	\$11,318	\$33,708	11.37%	\$1,287	\$3,832	6.18%	\$699	\$2,082
57	\$2,157,333	5/1/2024	65	\$2,191,042	\$2,157,333	\$2,174,188	0.71%	\$15,335	(\$4,190)	\$11,145	\$33,708	11.37%	\$1,267	\$3,832	6.18%	\$688	\$2,082
58	\$2,123,625	6/1/2024	64	\$2,157,333	\$2,123,625	\$2,140,479	0.71%	\$15,097	(\$4,125)	\$10,973	\$33,708	11.37%	\$1,247	\$3,832	6.18%	\$678	\$2,082
59	\$2,089,917	7/1/2024	63	\$2,123,625	\$2,089,917	\$2,106,771	0.71%	\$14,859	(\$4,060)	\$10,800	\$33,708	11.37%	\$1,228	\$3,832	6.18%	\$667	\$2,082
60	\$2,056,208	8/1/2024	62	\$2,089,917	\$2,056,208	\$2,073,063	0.71%	\$14,622	(\$3,995)	\$10,627	\$33,708	11.37%	\$1,208	\$3,832	6.18%	\$656	\$2,082
61	\$2,022,500	9/1/2024	61	\$2,056,208	\$2,022,500	\$2,039,354	0.71%	\$14,384	(\$3,930)	\$10							

MASSACHUSETTS IMPLEMENTATION AFTER 2 YEARS

Investment Name	Total Spend	In Service Date	Amortization Period	Beginning Balance	Ending Balance	Average Balance	Service Co Return	Rate Year Return	RY Return on Accum Taxes	Total Return	Rate Year Amortization	Narragansett Electric	Narragansett Electric RY Rent Return	Narragansett Electric RY Rent - Depn	Narragansett Gas RY Rent Return	Narragansett Gas RY Rent - Depn
76	\$1,516,875	12/1/2025	45	\$1,516,875	\$1,483,167	\$1,500,021	0.71%	\$10,580	(\$2,890)	\$7,689	\$33,708	11.37%	\$874	\$3,832	6.18%	\$475
77	\$1,483,167	1/1/2026	44	\$1,483,167	\$1,449,458	\$1,466,313	0.71%	\$10,342	(\$2,825)	\$7,517	\$33,708	11.37%	\$854	\$3,832	6.18%	\$464
78	\$1,449,458	2/1/2026	43	\$1,449,458	\$1,415,750	\$1,432,604	0.71%	\$10,104	(\$2,761)	\$7,344	\$33,708	11.37%	\$835	\$3,832	6.18%	\$454
79	\$1,415,750	3/1/2026	42	\$1,415,750	\$1,382,042	\$1,398,896	0.71%	\$9,867	(\$2,696)	\$7,171	\$33,708	11.37%	\$815	\$3,832	6.18%	\$443
80	\$1,382,042	4/1/2026	41	\$1,382,042	\$1,348,333	\$1,365,188	0.71%	\$9,629	(\$2,631)	\$6,998	\$33,708	11.37%	\$795	\$3,832	6.18%	\$432
81	\$1,348,333	5/1/2026	40	\$1,348,333	\$1,314,625	\$1,331,479	0.71%	\$9,391	(\$2,566)	\$6,826	\$33,708	11.37%	\$776	\$3,832	6.18%	\$422
82	\$1,314,625	6/1/2026	39	\$1,314,625	\$1,280,917	\$1,297,771	0.71%	\$9,153	(\$2,501)	\$6,653	\$33,708	11.37%	\$756	\$3,832	6.18%	\$411
83	\$1,280,917	7/1/2026	38	\$1,280,917	\$1,247,208	\$1,264,063	0.71%	\$8,916	(\$2,436)	\$6,480	\$33,708	11.37%	\$737	\$3,832	6.18%	\$400
84	\$1,247,208	8/1/2026	37	\$1,247,208	\$1,213,500	\$1,230,354	0.71%	\$8,678	(\$2,371)	\$6,307	\$33,708	11.37%	\$717	\$3,832	6.18%	\$390
85	\$1,213,500	9/1/2026	36	\$1,213,500	\$1,179,792	\$1,196,646	0.71%	\$8,440	(\$2,306)	\$6,134	\$33,708	11.37%	\$697	\$3,832	6.18%	\$379
86	\$1,179,792	10/1/2026	35	\$1,179,792	\$1,146,083	\$1,162,938	0.71%	\$8,202	(\$2,241)	\$5,962	\$33,708	11.37%	\$678	\$3,832	6.18%	\$368
87	\$1,146,083	11/1/2026	34	\$1,146,083	\$1,112,375	\$1,129,229	0.71%	\$7,965	(\$2,176)	\$5,789	\$33,708	11.37%	\$658	\$3,832	6.18%	\$358
88	\$1,112,375	12/1/2026	33	\$1,112,375	\$1,078,667	\$1,095,521	0.71%	\$7,727	(\$2,111)	\$5,616	\$33,708	11.37%	\$638	\$3,832	6.18%	\$347
89	\$1,078,667	1/1/2027	32	\$1,078,667	\$1,044,958	\$1,061,813	0.71%	\$7,489	(\$2,046)	\$5,443	\$33,708	11.37%	\$619	\$3,832	6.18%	\$336
90	\$1,044,958	2/1/2027	31	\$1,044,958	\$1,011,250	\$1,028,104	0.71%	\$7,251	(\$1,981)	\$5,270	\$33,708	11.37%	\$599	\$3,832	6.18%	\$326
91	\$1,011,250	3/1/2027	30	\$1,011,250	\$977,542	\$994,396	0.71%	\$7,014	(\$1,916)	\$5,098	\$33,708	11.37%	\$579	\$3,832	6.18%	\$315
92	\$977,542	4/1/2027	29	\$977,542	\$943,833	\$960,687	0.71%	\$6,776	(\$1,851)	\$4,925	\$33,708	11.37%	\$560	\$3,832	6.18%	\$304
93	\$943,833	5/1/2027	28	\$943,833	\$910,125	\$926,979	0.71%	\$6,538	(\$1,786)	\$4,752	\$33,708	11.37%	\$540	\$3,832	6.18%	\$294
94	\$910,125	6/1/2027	27	\$910,125	\$876,417	\$893,271	0.71%	\$6,300	(\$1,721)	\$4,579	\$33,708	11.37%	\$521	\$3,832	6.18%	\$283
95	\$876,417	7/1/2027	26	\$876,417	\$842,708	\$859,562	0.71%	\$6,063	(\$1,656)	\$4,406	\$33,708	11.37%	\$501	\$3,832	6.18%	\$272
96	\$842,708	8/1/2027	25	\$842,708	\$809,000	\$825,854	0.71%	\$5,825	(\$1,591)	\$4,234	\$33,708	11.37%	\$481	\$3,832	6.18%	\$262
97	\$809,000	9/1/2027	24	\$809,000	\$775,292	\$792,146	0.71%	\$5,587	(\$1,526)	\$4,061	\$33,708	11.37%	\$462	\$3,832	6.18%	\$251
98	\$775,292	10/1/2027	23	\$775,292	\$741,583	\$758,437	0.71%	\$5,349	(\$1,461)	\$3,888	\$33,708	11.37%	\$442	\$3,832	6.18%	\$240
99	\$741,583	11/1/2027	22	\$741,583	\$707,875	\$724,729	0.71%	\$5,112	(\$1,397)	\$3,715	\$33,708	11.37%	\$422	\$3,832	6.18%	\$229
100	\$707,875	12/1/2027	21	\$707,875	\$674,167	\$691,021	0.71%	\$4,874	(\$1,332)	\$3,542	\$33,708	11.37%	\$403	\$3,832	6.18%	\$219
101	\$674,167	1/1/2028	20	\$674,167	\$640,458	\$657,312	0.71%	\$4,636	(\$1,267)	\$3,370	\$33,708	11.37%	\$383	\$3,832	6.18%	\$208
102	\$640,458	2/1/2028	19	\$640,458	\$606,750	\$623,604	0.71%	\$4,398	(\$1,202)	\$3,197	\$33,708	11.37%	\$363	\$3,832	6.18%	\$197
103	\$606,750	3/1/2028	18	\$606,750	\$573,042	\$589,896	0.71%	\$4,161	(\$1,137)	\$3,024	\$33,708	11.37%	\$344	\$3,832	6.18%	\$187
104	\$573,042	4/1/2028	17	\$573,042	\$539,333	\$556,187	0.71%	\$3,923	(\$1,072)	\$2,851	\$33,708	11.37%	\$324	\$3,832	6.18%	\$176
105	\$539,333	5/1/2028	16	\$539,333	\$505,625	\$522,479	0.71%	\$3,685	(\$1,007)	\$2,678	\$33,708	11.37%	\$304	\$3,832	6.18%	\$165
106	\$505,625	6/1/2028	15	\$505,625	\$471,917	\$488,771	0.71%	\$3,447	(\$942)	\$2,506	\$33,708	11.37%	\$285	\$3,832	6.18%	\$155
107	\$471,917	7/1/2028	14	\$471,917	\$438,208	\$455,062	0.71%	\$3,210	(\$877)	\$2,333	\$33,708	11.37%	\$265	\$3,832	6.18%	\$144
108	\$438,208	8/1/2028	13	\$438,208	\$404,500	\$421,354	0.71%	\$2,972	(\$812)	\$2,160	\$33,708	11.37%	\$246	\$3,832	6.18%	\$133
109	\$404,500	9/1/2028	12	\$404,500	\$370,792	\$387,646	0.71%	\$2,734	(\$747)	\$1,987	\$33,708	11.37%	\$226	\$3,832	6.18%	\$123
110	\$370,792	10/1/2028	11	\$370,792	\$337,083	\$353,937	0.71%	\$2,496	(\$682)	\$1,814	\$33,708	11.37%	\$206	\$3,832	6.18%	\$112
111	\$337,083	11/1/2028	10	\$337,083	\$303,375	\$320,229	0.71%	\$2,259	(\$617)	\$1,642	\$33,708	11.37%	\$187	\$3,832	6.18%	\$101
112	\$303,375	12/1/2028	9	\$303,375	\$269,667	\$286,521	0.71%	\$2,021	(\$552)	\$1,469	\$33,708	11.37%	\$167	\$3,832	6.18%	\$91
113	\$269,667	1/1/2029	8	\$269,667	\$235,958	\$252,813	0.71%	\$1,783	(\$487)	\$1,296	\$33,708	11.37%	\$147	\$3,832	6.18%	\$80
114	\$235,958	2/1/2029	7	\$235,958	\$202,250	\$219,104	0.71%	\$1,545	(\$422)	\$1,123	\$33,708	11.37%	\$128	\$3,832	6.18%	\$69
115	\$202,250	3/1/2029	6	\$202,250	\$168,542	\$185,396	0.71%	\$1,308	(\$357)	\$950	\$33,708	11.37%	\$108	\$3,832	6.18%	\$59
116	\$168,542	4/1/2029	5	\$168,542	\$134,833	\$151,688	0.71%	\$1,070	(\$292)	\$778	\$33,708	11.37%	\$88	\$3,832	6.18%	\$48
117	\$134,833	5/1/2029	4	\$134,833	\$101,125	\$117,979	0.71%	\$832	(\$227)	\$605	\$33,708	11.37%	\$69	\$3,832	6.18%	\$37
118	\$101,125	6/1/2029	3	\$101,125	\$67,417	\$84,271	0.71%	\$594	(\$162)	\$432	\$33,708	11.37%	\$49	\$3,832	6.18%	\$27
119	\$67,417	7/1/2029	2	\$67,417	\$33,708	\$50,562	0.71%	\$357	(\$97)	\$259	\$33,708	11.37%	\$29	\$3,832	6.18%	\$16
120	\$33,708	8/1/2029	1	\$33,708	\$0	\$16,854	0.71%	\$119	(\$32)	\$86	\$33,708	11.37%	\$10	\$3,832	6.18%	\$5



MASSACHUSETTS IMPLEMENTATION AFTER 5 YEARS

Investment Name	Total Spend	In Service Date	Amortization Period	Beginning Balance	Ending Balance	Average Balance	Service Co Return	Rate Year Return	RY Return on Accum Taxes	Total Return	Rate Year Amortization	Narragansett Electric	Narragansett Electric RY Rent Return	Narragansett Electric RY Rent - Depn	Narragansett Gas	Narragansett Gas RY Rent Return	Narragansett Gas RY Rent - Depn
1 AMI Study	\$4,045,000	9/2/2019	120	\$4,045,000	\$4,011,292	\$4,028,146	0.71%	\$28,411	(\$7,762)	\$20,649	\$33,708	16.28%	\$3,362	\$5,488	8.84%	\$1,825	\$2,980
2	\$4,011,292	10/1/2019	119	\$4,011,292	\$3,977,583	\$3,994,438	0.71%	\$28,174	(\$7,697)	\$20,477	\$33,708	16.28%	\$3,334	\$5,488	8.84%	\$1,810	\$2,980
3	\$3,977,583	11/1/2019	118	\$3,977,583	\$3,943,875	\$3,960,729	0.71%	\$27,936	(\$7,632)	\$20,304	\$33,708	16.28%	\$3,305	\$5,488	8.84%	\$1,795	\$2,980
4	\$3,943,875	12/1/2019	117	\$3,943,875	\$3,910,167	\$3,927,021	0.71%	\$27,698	(\$7,567)	\$20,131	\$33,708	16.28%	\$3,277	\$5,488	8.84%	\$1,780	\$2,980
5	\$3,910,167	1/1/2020	116	\$3,910,167	\$3,876,458	\$3,893,313	0.71%	\$27,460	(\$7,502)	\$19,958	\$33,708	16.28%	\$3,249	\$5,488	8.84%	\$1,764	\$2,980
6	\$3,876,458	2/1/2020	115	\$3,876,458	\$3,842,750	\$3,859,604	0.71%	\$27,223	(\$7,437)	\$19,785	\$33,708	16.28%	\$3,221	\$5,488	8.84%	\$1,749	\$2,980
7	\$3,842,750	3/1/2020	114	\$3,842,750	\$3,809,042	\$3,825,896	0.71%	\$26,985	(\$7,372)	\$19,613	\$33,708	16.28%	\$3,193	\$5,488	8.84%	\$1,734	\$2,980
8	\$3,809,042	4/1/2020	113	\$3,809,042	\$3,775,333	\$3,792,188	0.71%	\$26,747	(\$7,307)	\$19,440	\$33,708	16.28%	\$3,165	\$5,488	8.84%	\$1,718	\$2,980
9	\$3,775,333	5/1/2020	112	\$3,775,333	\$3,741,625	\$3,758,479	0.71%	\$26,509	(\$7,242)	\$19,267	\$33,708	16.28%	\$3,137	\$5,488	8.84%	\$1,703	\$2,980
10	\$3,741,625	6/1/2020	111	\$3,741,625	\$3,707,917	\$3,724,771	0.71%	\$26,272	(\$7,177)	\$19,094	\$33,708	16.28%	\$3,109	\$5,488	8.84%	\$1,688	\$2,980
11	\$3,707,917	7/1/2020	110	\$3,707,917	\$3,674,208	\$3,691,063	0.71%	\$26,034	(\$7,112)	\$18,921	\$33,708	16.28%	\$3,080	\$5,488	8.84%	\$1,673	\$2,980
12	\$3,674,208	8/1/2020	109	\$3,674,208	\$3,640,500	\$3,657,354	0.71%	\$25,796	(\$7,047)	\$18,749	\$33,708	16.28%	\$3,052	\$5,488	8.84%	\$1,657	\$2,980
13	\$3,640,500	9/1/2020	108	\$3,640,500	\$3,606,792	\$3,623,646	0.71%	\$25,558	(\$6,983)	\$18,576	\$33,708	16.28%	\$3,024	\$5,488	8.84%	\$1,642	\$2,980
14	\$3,606,792	10/1/2020	107	\$3,606,792	\$3,573,083	\$3,589,938	0.71%	\$25,320	(\$6,918)	\$18,403	\$33,708	16.28%	\$2,996	\$5,488	8.84%	\$1,627	\$2,980
15	\$3,573,083	11/1/2020	106	\$3,573,083	\$3,539,375	\$3,556,229	0.71%	\$25,083	(\$6,853)	\$18,230	\$33,708	16.28%	\$2,968	\$5,488	8.84%	\$1,612	\$2,980
16	\$3,539,375	12/1/2020	105	\$3,539,375	\$3,505,667	\$3,522,521	0.71%	\$24,845	(\$6,788)	\$18,057	\$33,708	16.28%	\$2,940	\$5,488	8.84%	\$1,596	\$2,980
17	\$3,505,667	1/1/2021	104	\$3,505,667	\$3,471,958	\$3,488,813	0.71%	\$24,607	(\$6,723)	\$17,885	\$33,708	16.28%	\$2,912	\$5,488	8.84%	\$1,581	\$2,980
18	\$3,471,958	2/1/2021	103	\$3,471,958	\$3,438,250	\$3,455,104	0.71%	\$24,369	(\$6,658)	\$17,712	\$33,708	16.28%	\$2,883	\$5,488	8.84%	\$1,566	\$2,980
19	\$3,438,250	3/1/2021	102	\$3,438,250	\$3,404,542	\$3,421,396	0.71%	\$24,132	(\$6,593)	\$17,539	\$33,708	16.28%	\$2,855	\$5,488	8.84%	\$1,550	\$2,980
20	\$3,404,542	4/1/2021	101	\$3,404,542	\$3,370,833	\$3,387,688	0.71%	\$23,894	(\$6,528)	\$17,366	\$33,708	16.28%	\$2,827	\$5,488	8.84%	\$1,535	\$2,980
21	\$3,370,833	5/1/2021	100	\$3,370,833	\$3,337,125	\$3,353,979	0.71%	\$23,656	(\$6,463)	\$17,193	\$33,708	16.28%	\$2,799	\$5,488	8.84%	\$1,520	\$2,980
22	\$3,337,125	6/1/2021	99	\$3,337,125	\$3,303,417	\$3,320,271	0.71%	\$23,418	(\$6,398)	\$17,021	\$33,708	16.28%	\$2,771	\$5,488	8.84%	\$1,505	\$2,980
23	\$3,303,417	7/1/2021	98	\$3,303,417	\$3,269,708	\$3,286,563	0.71%	\$23,181	(\$6,333)	\$16,848	\$33,708	16.28%	\$2,743	\$5,488	8.84%	\$1,489	\$2,980
24	\$3,269,708	8/1/2021	97	\$3,269,708	\$3,236,000	\$3,252,854	0.71%	\$22,943	(\$6,268)	\$16,675	\$33,708	16.28%	\$2,715	\$5,488	8.84%	\$1,474	\$2,980
25	\$3,236,000	9/1/2021	96	\$3,236,000	\$3,202,292	\$3,219,146	0.71%	\$22,705	(\$6,203)	\$16,502	\$33,708	16.28%	\$2,687	\$5,488	8.84%	\$1,459	\$2,980
26	\$3,202,292	10/1/2021	95	\$3,202,292	\$3,168,583	\$3,185,438	0.71%	\$22,467	(\$6,138)	\$16,329	\$33,708	16.28%	\$2,658	\$5,488	8.84%	\$1,444	\$2,980
27	\$3,168,583	11/1/2021	94	\$3,168,583	\$3,134,875	\$3,151,729	0.71%	\$22,230	(\$6,073)	\$16,157	\$33,708	16.28%	\$2,630	\$5,488	8.84%	\$1,428	\$2,980
28	\$3,134,875	12/1/2021	93	\$3,134,875	\$3,101,167	\$3,118,021	0.71%	\$21,992	(\$6,008)	\$15,984	\$33,708	16.28%	\$2,602	\$5,488	8.84%	\$1,413	\$2,980
29	\$3,101,167	1/1/2022	92	\$3,101,167	\$3,067,458	\$3,084,313	0.71%	\$21,754	(\$5,943)	\$15,811	\$33,708	16.28%	\$2,574	\$5,488	8.84%	\$1,398	\$2,980
30	\$3,067,458	2/1/2022	91	\$3,067,458	\$3,033,750	\$3,050,604	0.71%	\$21,516	(\$5,878)	\$15,638	\$33,708	16.28%	\$2,546	\$5,488	8.84%	\$1,382	\$2,980
31	\$3,033,750	3/1/2022	90	\$3,033,750	\$3,000,042	\$3,016,896	0.71%	\$21,279	(\$5,813)	\$15,465	\$33,708	16.28%	\$2,518	\$5,488	8.84%	\$1,367	\$2,980
32	\$3,000,042	4/1/2022	89	\$3,000,042	\$2,966,333	\$2,983,188	0.71%	\$21,041	(\$5,748)	\$15,293	\$33,708	16.28%	\$2,490	\$5,488	8.84%	\$1,352	\$2,980
33	\$2,966,333	5/1/2022	88	\$2,966,333	\$2,932,625	\$2,949,479	0.71%	\$20,803	(\$5,683)	\$15,120	\$33,708	16.28%	\$2,462	\$5,488	8.84%	\$1,337	\$2,980
34	\$2,932,625	6/1/2022	87	\$2,932,625	\$2,898,917	\$2,915,771	0.71%	\$20,565	(\$5,618)	\$14,947	\$33,708	16.28%	\$2,433	\$5,488	8.84%	\$1,321	\$2,980
35	\$2,898,917	7/1/2022	86	\$2,898,917	\$2,865,208	\$2,882,062	0.71%	\$20,328	(\$5,554)	\$14,774	\$33,708	16.28%	\$2,405	\$5,488	8.84%	\$1,306	\$2,980
36	\$2,865,208	8/1/2022	85	\$2,865,208	\$2,831,500	\$2,848,354	0.71%	\$20,090	(\$5,489)	\$14,601	\$33,708	16.28%	\$2,377	\$5,488	8.84%	\$1,291	\$2,980
37	\$2,831,500	9/1/2022	84	\$2,831,500	\$2,797,792	\$2,814,646	0.71%	\$19,852	(\$5,424)	\$14,429	\$33,708	16.28%	\$2,349	\$5,488	8.84%	\$1,275	\$2,980
38	\$2,797,792	10/1/2022	83	\$2,797,792	\$2,764,083	\$2,780,937	0.71%	\$19,614	(\$5,359)	\$14,256	\$33,708	16.28%	\$2,321	\$5,488	8.84%	\$1,260	\$2,980
39	\$2,764,083	11/1/2022	82	\$2,764,083	\$2,730,375	\$2,747,229	0.71%	\$19,377	(\$5,294)	\$14,083	\$33,708	16.28%	\$2,293	\$5,488	8.84%	\$1,245	\$2,980
40	\$2,730,375	12/1/2022	81	\$2,730,375	\$2,696,667	\$2,713,521	0.71%	\$19,139	(\$5,229)	\$13,910	\$33,708	16.28%	\$2,265	\$5,488	8.84%	\$1,230	\$2,980
41	\$2,696,667	1/1/2023	80	\$2,696,667	\$2,662,958	\$2,679,812	0.71%	\$18,901	(\$5,164)	\$13,737	\$33,708	16.28%	\$2,236	\$5,488	8.84%	\$1,214	\$2,980
42	\$2,662,958	2/1/2023	79	\$2,662,958	\$2,629,250	\$2,646,104	0.71%	\$18,663	(\$5,099)	\$13,565	\$33,708	16.28%	\$2,208	\$5,488	8.84%	\$1,199	\$2,980
43	\$2,629,250	3/1/2023	78	\$2,629,250	\$2,595,542	\$2,612,396	0.71%	\$18,426	(\$5,034)	\$13,392	\$33,708	16.28%	\$2,180	\$5,488	8.84%	\$1,184	\$2,980
44	\$2,595,542	4/1/2023	77	\$2,595,542	\$2,561,833	\$2,578,687	0.71%	\$18,188	(\$4,969)	\$13,219	\$33,708	16.28%	\$2,152	\$5,488	8.84%	\$1,169	\$2,980
45	\$2,561,833	5/1/2023	76	\$2,561,833	\$2,528,125	\$2,544,979	0.71%	\$17,950	(\$4,904)	\$13,046	\$33,708	16.28%	\$2,124	\$5,488	8.84%	\$1,153	\$2,980
46	\$2,528,125	6/1/2023	75	\$2,528,125	\$2,494,417	\$2,511,271	0.71%	\$17,712	(\$4,839)	\$12,873	\$33,708	16.28%	\$2,096	\$5,488	8.84%	\$1,138	\$2,980
47	\$2,494,417	7/1/2023	74	\$2,494,417	\$2,460,708	\$2,477,562	0.71%	\$17,475	(\$4,774)	\$12,701	\$33,708	16.28%	\$2,068	\$5,488	8.84%	\$1,123	\$2,980
48	\$2,460,708	8/1/2023	73	\$2,460,708	\$2,427,000	\$2,443,854	0.71%	\$17,237	(\$4,709)	\$12,528	\$33,708	16.28%	\$2,040	\$5,488	8.84%	\$1,107	\$2,980
49	\$2,427,000	9/1/2023	72	\$2,427,000	\$2,393,292	\$2,410,146	0.71%	\$16,999	(\$4,644)	\$12,355	\$33,708	16.28%	\$2,011	\$5,488	8.84%	\$1,092	\$2,980
50	\$2,393,292	10/1/2023	71	\$2,393,292	\$2,359,583	\$2,376,437	0.71%	\$16,761	(\$4,579)	\$12,182	\$33,708	16.28%	\$1,983	\$5,488	8.84%	\$1,077	\$2,980
51	\$2,359,583	11/1/2023	70	\$2,359,583	\$2,325,875	\$2,342,729	0.71%	\$16,524	(\$4,514)	\$12,009	\$33,708	16.28%	\$1,955	\$5,488	8.84%	\$1,062	\$2,980
52	\$2,325,875	12/1/2023	69	\$2,325,875	\$2,292,167	\$2,309,021	0.71%	\$16,286	(\$4,449)	\$11,837	\$33,708	16.28%	\$1,927	\$5,488	8.84%	\$1,046	\$2,980
53	\$2,292,167	1/1/2024	68	\$2,292,167	\$2,258,458	\$2,275,312	0.71%	\$16,048	(\$4,384)	\$11,664	\$33,708	16.28%	\$1,899	\$5,488	8.84%	\$1,031	\$2,980
54	\$2,258,458	2/1/2024	67	\$2,258,458	\$2,224,750	\$2,241,604	0.71%	\$15,810	(\$4,319)	\$11,491	\$33,708	16.28%	\$1,871	\$5,488	8.84%	\$1,016	\$2,980
55	\$2,224,750	3/1/2024	66	\$2,224,750	\$2,191,042	\$2,207,896	0.71%	\$15,573	(\$4,254)	\$11,318	\$33,708	16.28%	\$1,843	\$5,488	8.84%	\$1,001	\$2,980
56	\$2,191,042	4/1/2024	65	\$2,191,042	\$2,157,333	\$2,174,188	0.71%	\$15,335	(\$4,190)	\$11,145	\$33,708	16.28%	\$1,814	\$5,488	8.84%	\$985	\$2,980
57	\$2,157,333	5/1/2024	64	\$2,157,333	\$2,123,625	\$2,140,479	0.71%	\$15,097	(\$4,125)	\$10,973	\$33,708	16.28%	\$1,786	\$5,488	8.84%	\$970	\$2,980
58	\$2,123,625	6/1/2024	63	\$2,123,625	\$2,089,917	\$2,106,771	0.71%	\$14,859	(\$4,060)	\$10,800	\$33,708	16.28%	\$1,758	\$5,488	8.84%	\$955	\$2,980
59	\$2,089,917	7/1/2024	62	\$2,089,917	\$2,056,208	\$2,073,063	0.71%	\$14,622	(\$3,995)	\$10,627	\$33,708	16.28%	\$1,730	\$5,488	8.84%	\$939	\$2,980
60	\$2,056,208	8/1/2024	61	\$2,056,208	\$2,022,500	\$2,039,354	0.71%	\$14,384	(\$3,930)	\$10,454	\$33,708	16.28%	\$1,702	\$5,			

MASSACHUSETTS IMPLEMENTATION AFTER 5 YEARS

Investment Name	Total Spend	In Service Date	Amortization Period	Beginning Balance	Ending Balance	Average Balance	Service Co Return	Rate Year Return	RY Return on Accum Taxes	Total Return	Rate Year Amortization	Narragansett Electric	Narragansett Electric RY Rent Return	Narragansett Electric RY Rent - Depn	Narragansett Gas	Narragansett Gas RY Rent Return	Narragansett Gas RY Rent - Depn
76	\$1,516,875	12/1/2025	45	\$1,516,875	\$1,483,167	\$1,500,021	0.71%	\$10,580	(\$2,890)	\$7,689	\$33,708	11.37%	\$874	\$3,832	6.18%	\$475	\$2,082
77	\$1,483,167	1/1/2026	44	\$1,483,167	\$1,449,458	\$1,466,313	0.71%	\$10,342	(\$2,825)	\$7,517	\$33,708	11.37%	\$854	\$3,832	6.18%	\$464	\$2,082
78	\$1,449,458	2/1/2026	43	\$1,449,458	\$1,415,750	\$1,432,604	0.71%	\$10,104	(\$2,761)	\$7,344	\$33,708	11.37%	\$835	\$3,832	6.18%	\$454	\$2,082
79	\$1,415,750	3/1/2026	42	\$1,415,750	\$1,382,042	\$1,398,896	0.71%	\$9,867	(\$2,696)	\$7,171	\$33,708	11.37%	\$815	\$3,832	6.18%	\$443	\$2,082
80	\$1,382,042	4/1/2026	41	\$1,382,042	\$1,348,333	\$1,365,188	0.71%	\$9,629	(\$2,631)	\$6,998	\$33,708	11.37%	\$795	\$3,832	6.18%	\$432	\$2,082
81	\$1,348,333	5/1/2026	40	\$1,348,333	\$1,314,625	\$1,331,479	0.71%	\$9,391	(\$2,566)	\$6,826	\$33,708	11.37%	\$776	\$3,832	6.18%	\$422	\$2,082
82	\$1,314,625	6/1/2026	39	\$1,314,625	\$1,280,917	\$1,297,771	0.71%	\$9,153	(\$2,501)	\$6,653	\$33,708	11.37%	\$756	\$3,832	6.18%	\$411	\$2,082
83	\$1,280,917	7/1/2026	38	\$1,280,917	\$1,247,208	\$1,264,063	0.71%	\$8,916	(\$2,436)	\$6,480	\$33,708	11.37%	\$737	\$3,832	6.18%	\$400	\$2,082
84	\$1,247,208	8/1/2026	37	\$1,247,208	\$1,213,500	\$1,230,354	0.71%	\$8,678	(\$2,371)	\$6,307	\$33,708	11.37%	\$717	\$3,832	6.18%	\$390	\$2,082
85	\$1,213,500	9/1/2026	36	\$1,213,500	\$1,179,792	\$1,196,646	0.71%	\$8,440	(\$2,306)	\$6,134	\$33,708	11.37%	\$697	\$3,832	6.18%	\$379	\$2,082
86	\$1,179,792	10/1/2026	35	\$1,179,792	\$1,146,083	\$1,162,938	0.71%	\$8,202	(\$2,241)	\$5,962	\$33,708	11.37%	\$678	\$3,832	6.18%	\$368	\$2,082
87	\$1,146,083	11/1/2026	34	\$1,146,083	\$1,112,375	\$1,129,229	0.71%	\$7,965	(\$2,176)	\$5,789	\$33,708	11.37%	\$658	\$3,832	6.18%	\$358	\$2,082
88	\$1,112,375	12/1/2026	33	\$1,112,375	\$1,078,667	\$1,095,521	0.71%	\$7,727	(\$2,111)	\$5,616	\$33,708	11.37%	\$638	\$3,832	6.18%	\$347	\$2,082
89	\$1,078,667	1/1/2027	32	\$1,078,667	\$1,044,958	\$1,061,813	0.71%	\$7,489	(\$2,046)	\$5,443	\$33,708	11.37%	\$619	\$3,832	6.18%	\$336	\$2,082
90	\$1,044,958	2/1/2027	31	\$1,044,958	\$1,011,250	\$1,028,104	0.71%	\$7,251	(\$1,981)	\$5,270	\$33,708	11.37%	\$599	\$3,832	6.18%	\$326	\$2,082
91	\$1,011,250	3/1/2027	30	\$1,011,250	\$977,542	\$994,396	0.71%	\$7,014	(\$1,916)	\$5,098	\$33,708	11.37%	\$579	\$3,832	6.18%	\$315	\$2,082
92	\$977,542	4/1/2027	29	\$977,542	\$943,833	\$960,687	0.71%	\$6,776	(\$1,851)	\$4,925	\$33,708	11.37%	\$560	\$3,832	6.18%	\$304	\$2,082
93	\$943,833	5/1/2027	28	\$943,833	\$910,125	\$926,979	0.71%	\$6,538	(\$1,786)	\$4,752	\$33,708	11.37%	\$540	\$3,832	6.18%	\$294	\$2,082
94	\$910,125	6/1/2027	27	\$910,125	\$876,417	\$893,271	0.71%	\$6,300	(\$1,721)	\$4,579	\$33,708	11.37%	\$521	\$3,832	6.18%	\$283	\$2,082
95	\$876,417	7/1/2027	26	\$876,417	\$842,708	\$859,562	0.71%	\$6,063	(\$1,656)	\$4,406	\$33,708	11.37%	\$501	\$3,832	6.18%	\$272	\$2,082
96	\$842,708	8/1/2027	25	\$842,708	\$809,000	\$825,854	0.71%	\$5,825	(\$1,591)	\$4,234	\$33,708	11.37%	\$481	\$3,832	6.18%	\$262	\$2,082
97	\$809,000	9/1/2027	24	\$809,000	\$775,292	\$792,146	0.71%	\$5,587	(\$1,526)	\$4,061	\$33,708	11.37%	\$462	\$3,832	6.18%	\$251	\$2,082
98	\$775,292	10/1/2027	23	\$775,292	\$741,583	\$758,437	0.71%	\$5,349	(\$1,461)	\$3,888	\$33,708	11.37%	\$442	\$3,832	6.18%	\$240	\$2,082
99	\$741,583	11/1/2027	22	\$741,583	\$707,875	\$724,729	0.71%	\$5,112	(\$1,397)	\$3,715	\$33,708	11.37%	\$422	\$3,832	6.18%	\$229	\$2,082
100	\$707,875	12/1/2027	21	\$707,875	\$674,167	\$691,021	0.71%	\$4,874	(\$1,332)	\$3,542	\$33,708	11.37%	\$403	\$3,832	6.18%	\$219	\$2,082
101	\$674,167	1/1/2028	20	\$674,167	\$640,458	\$657,312	0.71%	\$4,636	(\$1,267)	\$3,370	\$33,708	11.37%	\$383	\$3,832	6.18%	\$208	\$2,082
102	\$640,458	2/1/2028	19	\$640,458	\$606,750	\$623,604	0.71%	\$4,398	(\$1,202)	\$3,197	\$33,708	11.37%	\$363	\$3,832	6.18%	\$197	\$2,082
103	\$606,750	3/1/2028	18	\$606,750	\$573,042	\$589,896	0.71%	\$4,161	(\$1,137)	\$3,024	\$33,708	11.37%	\$344	\$3,832	6.18%	\$187	\$2,082
104	\$573,042	4/1/2028	17	\$573,042	\$539,333	\$556,187	0.71%	\$3,923	(\$1,072)	\$2,851	\$33,708	11.37%	\$324	\$3,832	6.18%	\$176	\$2,082
105	\$539,333	5/1/2028	16	\$539,333	\$505,625	\$522,479	0.71%	\$3,685	(\$1,007)	\$2,678	\$33,708	11.37%	\$304	\$3,832	6.18%	\$165	\$2,082
106	\$505,625	6/1/2028	15	\$505,625	\$471,917	\$488,771	0.71%	\$3,447	(\$942)	\$2,506	\$33,708	11.37%	\$285	\$3,832	6.18%	\$155	\$2,082
107	\$471,917	7/1/2028	14	\$471,917	\$438,208	\$455,062	0.71%	\$3,210	(\$877)	\$2,333	\$33,708	11.37%	\$265	\$3,832	6.18%	\$144	\$2,082
108	\$438,208	8/1/2028	13	\$438,208	\$404,500	\$421,354	0.71%	\$2,972	(\$812)	\$2,160	\$33,708	11.37%	\$246	\$3,832	6.18%	\$133	\$2,082
109	\$404,500	9/1/2028	12	\$404,500	\$370,792	\$387,646	0.71%	\$2,734	(\$747)	\$1,987	\$33,708	11.37%	\$226	\$3,832	6.18%	\$123	\$2,082
110	\$370,792	10/1/2028	11	\$370,792	\$337,083	\$353,937	0.71%	\$2,496	(\$682)	\$1,814	\$33,708	11.37%	\$206	\$3,832	6.18%	\$112	\$2,082
111	\$337,083	11/1/2028	10	\$337,083	\$303,375	\$320,229	0.71%	\$2,259	(\$617)	\$1,642	\$33,708	11.37%	\$187	\$3,832	6.18%	\$101	\$2,082
112	\$303,375	12/1/2028	9	\$303,375	\$269,667	\$286,521	0.71%	\$2,021	(\$552)	\$1,469	\$33,708	11.37%	\$167	\$3,832	6.18%	\$91	\$2,082
113	\$269,667	1/1/2029	8	\$269,667	\$235,958	\$252,813	0.71%	\$1,783	(\$487)	\$1,296	\$33,708	11.37%	\$147	\$3,832	6.18%	\$80	\$2,082
114	\$235,958	2/1/2029	7	\$235,958	\$202,250	\$219,104	0.71%	\$1,545	(\$422)	\$1,123	\$33,708	11.37%	\$128	\$3,832	6.18%	\$69	\$2,082
115	\$202,250	3/1/2029	6	\$202,250	\$168,542	\$185,396	0.71%	\$1,308	(\$357)	\$950	\$33,708	11.37%	\$108	\$3,832	6.18%	\$59	\$2,082
116	\$168,542	4/1/2029	5	\$168,542	\$134,833	\$151,688	0.71%	\$1,070	(\$292)	\$778	\$33,708	11.37%	\$88	\$3,832	6.18%	\$48	\$2,082
117	\$134,833	5/1/2029	4	\$134,833	\$101,125	\$117,979	0.71%	\$832	(\$227)	\$605	\$33,708	11.37%	\$69	\$3,832	6.18%	\$37	\$2,082
118	\$101,125	6/1/2029	3	\$101,125	\$67,417	\$84,271	0.71%	\$594	(\$162)	\$432	\$33,708	11.37%	\$49	\$3,832	6.18%	\$27	\$2,082
119	\$67,417	7/1/2029	2	\$67,417	\$33,708	\$50,562	0.71%	\$357	(\$97)	\$259	\$33,708	11.37%	\$29	\$3,832	6.18%	\$16	\$2,082
120	\$33,708	8/1/2029	1	\$33,708	\$0	\$16,854	0.71%	\$119	(\$32)	\$86	\$33,708	11.37%	\$10	\$3,832	6.18%	\$5	\$2,082