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November 14, 2022

VIA ELECTRONIC MAIL

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

**RE: Docket No. 5209 – FY2023 Electric Infrastructure, Safety, and Reliability Plan
Quarterly Update – Second Quarter Ending September 30, 2022**

Dear Ms. Massaro:

On behalf of The Narragansett Electric Company d/b/a Rhode Island Energy (the “Company”), enclosed, please find the Company’s Fiscal Year (“FY”) 2023 Electric Infrastructure, Safety, and Reliability (“ISR”) Plan quarterly update for the second quarter ending September 30, 2022. This filing is being made consistent with the provisions of the approved FY 2018 Electric ISR Plan through which the Company committed to providing quarterly updates on the progress of its Electric ISR program to the Rhode Island Public Utilities Commission and the Rhode Island Division of Public Utilities and Carriers.

Thank you for your attention to this filing. If you have any questions, please contact me at 401-784-4263.

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew S. Marcaccio".

Andrew S. Marcaccio

Enclosures

cc: Docket No. 5209 Service List

**Electric Infrastructure, Safety, and Reliability Plan
Plan Year 2023 Quarterly Update
For the Six Months Ending September 30, 2022**

EXECUTIVE SUMMARY

As shown in Attachment A during the second quarter of the Plan Year (i.e., April 1, 2022 through March 31, 2023) for its electric infrastructure, safety, and reliability (“ISR”) plan, The Narragansett Electric Company d/b/a Rhode Island Energy (the “Company”) spent \$54.9 million for capital projects against a budget of \$56.6 million. Non-Discretionary spending was \$29.6 million, \$8.2 million over budget. Discretionary spending, including the separately tracked large projects, was \$25.3 million, \$9.8 million under budget. The Company forecasts capital spending of \$107.6 million during the Plan Year. Spending in each of these categories is addressed in more detail below.

I. Plan Year 2023 Capital Spending by Key Driver Category

1. Non-Discretionary Spending

a. Customer Request/Public Requirement

During the six months ending September 30, 2022, capital spending in the Customer Request/Public Requirement category was \$21.0 million, which was \$6.6 million over the budget of \$14.3 million. The major drivers were:

- Spending on Third-Party Attachment projects was over budget by \$0.6 million. Additional customer advances were collected in FY 2022 for work that will be completed in the current year. It is anticipated that this category of non-discretionary spending will remain over budget for the year because of these customer advances collected in FY 2022.
- Net spending activity in the Distributed Generation (“DG”) category was \$6.9 million for the six months ending September 30, 2022. Actual capital spending will be reduced by \$3.2 million of available contributions currently recorded in deferred revenues and \$2.0 million of additional billings during the second half of the year. As stated in the March 9, 2022 hearing, the Company has undertaken a review of DG Projects and will report the results to the Commission by March 31, 2023.
- In FY 2022, capital spending for the Landline Meter Replacement project was deferred to Plan Year 2023. A \$150,000 budget for this project was included in this year’s Plan. Although no spending took place during the first half of the year, the Company forecasts completing the work on the budget by March 2023.
- In the previous year, Strategic Distributed Energy Resources (“DER”) projects were under budget because construction on some Hopkins Hill feeder monitors was deferred. Construction of these feeders has been completed and the assets have been placed into service. Actual capital spending was \$121,000.

b. Damage/Failure

During the six months ending September 30, 2022, capital spending in the Damage/Failure category was \$8.6 million, which was \$1.6 million over budget.

- The Company continues to review Damage/Failure work under blanket projects each month to categorize only work related to failed assets in the Damage/Failure category of the Non-Discretionary portfolio and all other

work in the Asset Replacement category of the Discretionary portfolio. At this time, the Company forecasts that spending under the blanket projects will be slightly over budget at the end of the Plan Year.

- Actual capital spending related to storms and weather-related events during the first six months was \$1.5 million over budget. The Company forecasts that capital spending in this project will be over budget for the year.
- In August 2022, the metal clad switchgear at the Nasonville Substation was damaged beyond repair due to a bus fault. The failed switchgear will be replaced with an open-air straight bus that will include a main breaker, capacitor breaker, and four feeder breakers. Removal of the failed equipment, design, engineering, and procurement of long lead time materials for the replacement began immediately. Once materials are received, it is estimated that the work will take six to nine months to complete. The Company is forecasting Damage/Failure spending of \$2.0 million during the year.

2. **Discretionary Spending**

a. **Asset Condition (Without Separately Tracked Large Projects)**

During the six months ending September 30, 2022, capital spending in the Asset Condition category (excluding separately tracked large projects) was \$10.3 million, which was \$3.8 million under budget. The major drivers of this variance were as follows:

- Net capital spending on inspection and maintenance (“I&M”) was \$1.4 million under budget as of September 30, 2022. Actual capital spending on I&M work was offset by the write off of \$1.2 million of low priority projects that were designed in prior years, but the work would not be completed because of changes in the streamlined program. I&M capital spending is forecasted to be under budget at the end of the year because of this write off and the focus on addressing priority work.
- Last year, the Franklin Square Breaker Replacement project was under budget because due to vendor unavailability. Installation of the FY 2022 breakers took place in the first quarter of this Plan Year. The breakers scheduled to be purchased and installed during this Plan Year have been ordered and will be received by March 2023, but the installation will take place during the FY 2024 ISR Plan Year. Capital spending of \$1.4 million is forecasted for the FY 2023 Plan Year.
- Capital spending on Underground Cable Replacement projects was under budget by \$1.6 million during the first half of the year because of the phasing of the budget and availability windows for work completion. Spending on the program is forecasted to be \$1.0 million under budget at the end of the Plan Year.
- Capital spending to date on URD Cable projects was \$4.2 million, \$1.3 million over budget due to the scheduling of projects, the use of specialized equipment and labor. At the end of the Plan Year, the Company forecasts that capital spending in the program will remain over budget.

b. **Non-Infrastructure**

During the first six months of the Plan Year, capital spending for Non-Infrastructure projects was underbudget primarily due to the allocation of overheads. The Company forecasts that spending in this category will be under budget at the end of the year due

to the resequencing of work required by a third party for the Copper to Fiber Conversion project.

c. System Capacity and Performance (Without Separately Tracked Large Projects)

During the first six months of the Plan Year, capital spending for the System Capacity and Performance category was \$5.6 million, which was \$1.8 million over budget. The major drivers of this variance were as follows:

- Capital spending on the New Lafayette Substation project is forecasted to be approximately \$2.0 million underbudget due to schedule adjustments related to transmission outage coordination issues.
- In the previous Plan Year, construction on a distribution line Volt/VAR Optimization (“VVO”) project was deferred to Plan Year 2023. Construction has begun and is expected to be completed by the end of the calendar year. Minimal budget for these projects was included in the Plan because they were scheduled to be completed when the budget was set. The Company is forecasting capital spending of \$0.9 million this year.
- In FY 2022, certain projects related to load shifts because of the COVID-19 pandemic, including work on the 59F3 and 72F5 Lines and some smaller blanket level work, were deferred. The work has progress on these projects and capital spending totaled \$0.3 million through September 30, 2022. Capital spending is forecasted to be \$0.6 million through March 31, 2023. The Company continues to monitor load and takes immediate action to manage the system safely and reliably.
- The Company is forecasting to overspend its Reliability Blanket project in FY 2023 by \$1.2 million as line reclosers are installed on circuits to improve reliability. The installation of these pole-top reclosers will allow for sectionalizing of feeders in fault or overload conditions and minimize the number of customers without service.

d. Separately Tracked Large Projects

During Plan Year 2023, capital spending on the following Large Projects will be separately tracked: Southeast Substation, Dyer Street Substation, Providence Study projects, East Providence Substation, and Warren Substation. Each project is discussed in [Attachment G](#).

e. Large Project Variances

The Company provides explanations for large projects¹ with variances that exceed +/- 10% of the Plan Year budget in quarterly reports. These projects represent \$33.4 million of the Plan Year 2023 budget of \$104.8 million. This project information is provided in Attachment E.

f. New Distribution System Technology Update

The Quarterly Updates include an explanation of all new technologies the Company is exploring to assist in distribution system planning, particularly as they relate to the integration of DERs or to providing additional visibility on the distribution system. The Company continues to increase its use of Python Scripting to improve automation in CYME as well as other computer programs. For example, grid modernization analysis utilized Python scrips for electric vehicle, electric heat pump, and DG placement within the CYME models.

3. Investment Placed-in-Service

During the first six months of Plan Year 2023, \$36.6 million of plant was placed in service, which was 35% of target. Details by spending rationale are included in Attachment B.

4. Vegetation Management

During the first six months of Plan Year 2023, the Company completed 401 miles, or 30%, of its annual distribution mileage cycle pruning goal of 1,322 miles. O&M spending on vegetation management was \$3.7 million. The Company expects to complete 100% of the work plan within the budget of \$11.8 million. During this period, the Company removed 168 hazard trees on two circuits.

Attachment C provides the O&M spending and the Enhanced Hazard Tree Mitigation (“EHTM”) removal counts by circuit.

5. Inspection and Maintenance

During the six months ending September 30, 2022, the Company is ahead of its annual structure inspection goal with 59% completed against a target of 54,548 overhead structures inspected. I&M program costs are shown in Attachment D. This spending includes mobile elevated voltage testing and repairs, which the Rhode Island Public Utilities Commission approved in Docket No. 4237.

¹ Large projects are defined as projects exceeding \$1.0 million in total project cost.

The Company identified no Level I deficiencies during the first six months of Plan Year 2023. When Level I deficiencies are identified, they are repaired immediately or within 30 days of the inspection.

During the first six months of Plan Year 2023, the Company’s manual elevated voltage testing identified no instances of elevated voltage. The table below shows the number of units tested during this period.

Manual Elevated Voltage Testing				
Manual Elevated Voltage Testing	Total System Units Requiring Testing	Units Completed through 9/30/22	Units with Voltage Found (>1.0v)	Percent of Units Tested with Voltage (>1.0v)
Distribution Facilities	269,753	35,067	0	0%
Underground Facilities	12,438	1,102	0	0%
Street Lights	4,929	781	0	0%

Attachment A

US Electricity Distribution - Rhode Island Capital Spending by Spending Rationale For the Six Months Ending September 30, 2022 (\$000)

	YTD September 30, 2022			Plan Year 2023		
	Budget	Actuals	Over Spend / (Under Spend)	Budget	Forecast	Over Spend / (Under Spend)
Customer Request/Public Requirement	\$14,342	\$20,974	\$6,632	\$27,183	\$29,605	\$2,422
Damage Failure	7,072	8,633	1,561	14,251	16,152	1,901
<i>Total Non-Discretionary Spending</i>	<i>21,414</i>	<i>29,607</i>	<i>8,193</i>	<i>41,433</i>	<i>45,757</i>	<i>4,323</i>
Asset Condition	14,123	10,302	(3,821)	24,979	21,575	(3,404)
Non-Infrastructure	739	(750)	(1,489)	1,520	898	(622)
System Capacity & Performance	3,868	5,642	1,774	9,188	12,122	2,934
	18,730	15,194	(3,536)	35,687	34,595	(1,091)
Large Projects Separately Tracked	16,443	10,147	(6,296)	27,629	27,255	(375)
<i>Total Discretionary Spending</i>	<i>35,173</i>	<i>25,341</i>	<i>(9,831)</i>	<i>63,316</i>	<i>61,850</i>	<i>(1,466)</i>
Total Capital Spending	\$56,587	\$54,948	(\$1,638)	\$104,750	\$107,607	\$2,857

Attachment B

US Electricity Distribution - Rhode Island Plant Additions by Spending Rationale For the Six Months Ending September 30, 2022 (\$000)

	Plan Year 2023 Target	YTD Actuals	Plan Year 2023 Forecast	% of Target Placed In Service
Customer Request/Public Requirement	\$27,143	\$14,335	\$28,528	53%
Damage Failure	15,971	7,078	15,719	44%
<i>Subtotal Non-Discretionary</i>	43,114	21,413	44,247	50%
Asset Condition (w/Sep Tracked Large Projects)	48,224	11,108	41,004	23%
Non- Infrastructure	1,427	127	576	9%
System Cap & Perf (w/Sep Tracked Large Projects)	12,498	3,947	12,078	32%
<i>Subtotal Discretionary</i>	62,150	15,182	53,658	24%
Total Plant Additions	\$105,264	\$36,595	\$97,905	35%

Attachment C

US Electricity Distribution - Rhode Island Vegetation Management O&M Spending For the Six Months Ending September 30, 2022 (\$000)

\$'000s	Budget	Actual	Forecast	% Spend
Cycle Pruning (Base)	\$7,300	\$1,548	\$7,375	21%
Hazard Tree	1,750	870	1,700	50%
Sub-T (on & off road)	350	124	325	35%
Police/Flagman Details	775	330	775	43%
Pockets of Poor Performance	200	101	195	51%
Core Crew (all other activities)	1,500	739	1,500	49%
Vegetation Management O&M Spending	\$11,875	\$3,712	\$11,870	31%

Enhanced Hazard Tree Mitigation Update

District	Circuit	Substation	Hazard Tree Removals
Capital	4F1	Barrington	44
Capital	5F1	Warren	5
Capital	127W40	Nasonville	45
Capital	126W50	Washington	41
Coastal	52F3	Warwick	33
Totals			168

Attachment D

**US Electricity Distribution - Rhode Island
Inspection and Maintenance Program and Other O&M Spending
For the Six Months Ending September 30, 2022
(\$000)**

	Plan Year Budget	YTD Actual	Plan Year Forecast	% Spend
Opex Related to Capex	\$540	\$127	\$540	23%
Inspections & Repair Related Costs	475	193	475	41%
System Planning & Protection Coordination Study	25	0	0	0%
VVO/CRV Program	224	69	224	31%
Total I&M Program and Other O&M Spending	\$1,264	\$389	\$1,239	

Attachment E

US Electricity Distribution - Rhode Island Project Variance Report For the Six Months Ending September 30, 2022 (\$000)

Project Description	YTD 2023			Plan Year 2023			Variance Cause
	Budget	Actual	Over / (Under)	Budget	Forecast	Over / (Under)	
New Lafayette Substation	\$275	\$781	\$506	\$2,914	\$1,291	(\$1,622)	Schedule adjusted due to transmission outage coordination issues.
Dyer Street Substation (at South Street)	\$3,382	\$6,017	\$2,635	\$3,500	\$10,148	\$6,648	See Attachment G for additional details.
Providence Study - Phase 1A	\$1,484	\$896	(\$588)	\$1,484	\$1,501	\$17	See Attachment G for additional details.
Providence Study - Phase 1B	\$9,975	\$1,702	(\$8,272)	\$16,585	\$9,029	(\$7,556)	See Attachment G for additional details.
Providence Study - Phase 2	\$150	\$8	(\$142)	\$300	\$158	(\$142)	See Attachment G for additional details.
Providence Study - Phase 4	\$275	\$437	\$162	\$1,217	\$1,817	\$600	See Attachment G for additional details.
East Providence Substation	\$631	\$227	(\$404)	\$2,495	\$2,383	(\$112)	See Attachment G for additional details.
Warren Substation	\$520	\$153	(\$367)	\$1,824	\$1,555	(\$269)	See Attachment G for additional details.
Franklin Sq Breaker Replacement	\$906	\$199	(\$707)	\$1,837	\$1,400	(\$437)	FY22 breaker carryover work installed and additional breakers on order. Installation will take place next year.
3763 Pole Replacements	\$331	\$91	(\$240)	\$1,250	\$364	(\$886)	Deferral of a portion of spending to next year due to material delivery dates. Work can't be done in Winter.
	\$17,929	\$10,511	(\$7,418)	\$33,407	\$29,648	(\$3,759)	

Attachment F

US Electricity Distribution - Rhode Island Damage/Failure Detail by Work Type For the Six Months Ending September 30, 2022 (\$000)

Operation Description	D Line Blanket	D Sub Blanket	Property Damage	Specifics	Storms	Total
Engineering/Design/Supervision	\$580	\$6	\$96	\$39	\$123	\$843
OH Elec Distribution	2,221	0	170	0	1,147	3,538
OH Transformers/Capacitors/Regulators/Meters	437	0	(12)	0	131	556
Other	594	22	73	119	44	853
Outdoor Lighting	9	0	1	0	0	10
Substation	0	321	0	585	0	906
Switching and Restoration	61	5	(19)	110	1	159
Traffic Control	162	0	75	0	27	264
UG Elec Distribution	1,460	0	74	0	62	1,597
UG Transformers/Capacitors/Regulators/Meters	140	0	(1)	0	9	148
Total before reclassification	5,663	354	458	854	1,545	8,873
Reclassification adjustment - D/F to A/R	(240)					(240)
Total after reclassification	\$5,423	\$354	\$458	\$854	\$1,545	\$8,633

Attachment G

US Electricity Distribution - Rhode Island Separately Tracked Large Projects For the Six Months Ending September 30, 2022

Southeast Substation

Predates Existing Area Study Process
Current Status – Design and Execute

	Actuals & Current Forecast		ISR Plan Budget	
	FY23 Actuals & Forecast	Total Project Cost Forecast	FY23 Budget	Total Project Cost Forecast
(\$ 000's)				
Southeast Substation Project	\$664	\$23,527	\$223	\$23,065

The Company is forecasting total capital spending of \$0.7 million for the Plan Year. The Dunnell Park substation portion of this project is complete and went into service in March 2021. A significant portion of the distribution line project went into service during FY 2022. The engineering for the Pawtucket #1 Substation project is complete and building demolition construction will begin in August 2023.

In total, the Company currently expects capital spending to be \$23.5 million for this project as compared with the estimate when sanctioned of \$21.1 million. Additional spending was necessary because of field conditions requiring environmental management of an additional volume of soil; construction site congestion requiring additional resources such as crane and other equipment rentals; increased costs on final civil work at Dunnell Park substation; and the reconfiguration and equipment on the distribution network to avoid reliability issues.

Dyer Street Substation at South Street

Predates Existing Area Study Process

Current Status – Design and Execute

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	FY23 Actuals & Forecast	Total Project Cost Forecast	FY23 Budget	Total Project Cost Forecast
Dyer Street Substation Project	\$10,148	\$20,526	\$3,500	\$16,504

During the first six months of the Plan Year, capital spending on the Dyer Street Substation project was \$6.0 million. The Company forecasts total spending of \$10.1 million during the Plan Year. Costs were shifted from FY 2022 to this year because of the delayed delivery of the metal clad switchgear, delays in permits, and weather. Current year spending relates to installation of the metal clad switchgear, transformers, and civil work. In the second quarter, duct banks and manholes needed to complete the transfer of the distribution lines from the existing Dyer St. substation to the new metal clad substation were installed. Additional costs were incurred related to obstructions encountered during trenching for duct banks, especially along the south side of the property. The project is expected to go into service by the end of the Plan Year.

The re-scoped Dyer Street Substation project consists of building an external substation in the vicinity of the South Street Substation. The Company decided to modify the original scope of work from building an indoor substation in order to explore these savings. Benefits of building in this area are that the Company does not have to install numerous components including the ground, grid, the substation fence, lighting, and trenching.

Providence Study – Admiral Street Substation - Phase 1A
Providence Area Study Implementation Plan 2016 – 2030 (May 2017)
Current Status – Design and Execute

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	Total		Total	
	FY23	Project	FY23	Project
	Actuals & Forecast	Cost Forecast	Budget	Cost Forecast
Providence Study Projects - Phase 1A	\$1,501	\$8,460	\$1,484	\$8,973

During the first six months of the Plan Year, capital spending on Phase 1A of the Providence Study projects was \$0.9 million. For the Plan Year, the Company forecasts total capital spending of \$1.5 million, which includes some labor and contractor charges deferred from FY 2022.

In total, the Company currently expects capital spending of \$8.5 million for this project compared to the \$9.0 million budget presented in the ISR Plan and the estimate of \$10.0 million when sanctioned. The work is currently on schedule to be completed and placed in service this Plan Year.

Providence Study – Admiral Street Substation - Phase 1B
Providence Area Study Implementation Plan 2016 – 2030 (May 2017)
Current Status – Final Engineering/Design and Execute

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	Total		Total	
	FY23	Project	FY23	Project
	Actuals & Forecast	Cost Forecast	Budget	Cost Forecast
Providence Study Projects - Phase 1B	\$9,029	\$45,358	\$16,585	\$45,366

During the first six months of the Plan Year, capital spending on Phase 1B of the Providence Study projects was \$1.7 million. The Company forecasts total capital spending of \$9.0 million against the budget of \$16.6 million. Construction began in April 2022. The reduction in spending during this Plan Year is caused by material purchased in late FY 2022. The reduction during this Plan Year also was caused by manhole installations that were budgeted for this Plan Year that will be deferred to the next Plan Year because of limitations on construction during the winter.

In total, the Company expects capital spending of \$45.3 million for this project compared to the \$45.4 million budget presented in the FY 2023 ISR Plan and \$45.6 million sanctioning amount.

Providence Study Projects - Phase 2

Providence Area Study Implementation Plan 2016 – 2030 (May 2017)

Current Status – Develop & Sanction

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	FY23 Actuals & Forecast	Total Project Cost Forecast	FY23 Budget	Total Project Cost Forecast
Providence Study Projects - Phase 2	\$158	\$24,700	\$300	\$25,324

The Company is forecasting capital spending of \$0.2 million on Phase 2 of the Providence Study projects during the Plan year..

In total, the Company currently expects capital spending of \$24.7 million for these projects as compared to the \$25.3 million budget presented in the FY 2023 ISR Plan.

Providence Study – Knightsville Substation - Phase 4
Providence Area Study Implementation Plan 2016 – 2030 (May 2017)
Current Status – Develop & Sanction

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	FY23 Actuals & Forecast	Total Project Cost Forecast	FY23 Budget	Total Project Cost Forecast
Providence Study Projects - Phase 4	\$1,817	\$21,096	\$1,217	\$8,392

The Company is forecasting capital spending of \$1.8 million on Phase 4 of the Providence Study projects during the Plan year.

In total, the Company currently expects capital spending of \$21.1 million for these projects as compared to the \$8.4 million budget presented in the FY 2023 ISR Plan. As discussed in the FY 2022 ISR Plan reporting, estimates for the Knightsville substation and distribution line projects have been revised as the projects progress through the project development phase. The earlier estimates were based on higher level engineering information. Primary drivers with associated increased costs were as follows:

- Duct bank and earthwork increases - \$0.5 million
- Resourcing, labor, and team costs - \$3.3 million
- Contingency, risk, AFUDC, and A&G costs - \$7.1 million

East Providence Substation
East Bay Area Study (August 2015)
Current Status – Develop & Sanction

<i>(\$ 000's)</i>	Actuals & Current Forecast		ISR Plan Budget	
	FY23 Actuals & Forecast	Total Project Cost Forecast	FY23 Budget	Total Project Cost Forecast
East Providence Substation	\$2,383	\$17,564	\$2,495	\$17,025

During the first six months of the Plan Year, capital spending on the East Providence Substation project was \$0.2 million, and the Company is forecasting capital spending of \$2.4 million against a budget of \$2.5 million. Engineering and material procurement will take place during the Plan Year, with a full sanction toward the end of the Plan Year.

In total, the Company currently expects capital spending of \$17.5 million for this project compared to the \$17.0 million budget presented in the ISR Plan. This project consists of building a new 115/12.4kV substation in East Providence to relieve heavily loaded distribution feeders, address MWh violations, and provide capacity to supply load growth. This new substation is part of a comprehensive plan that eliminates the need for major upgrades on the 23kV sub-transmission system and the need to build a new 115/23kv station at Mink Street.

Warren Substation

East Bay Area Study (August 2015)
Current Status – Develop & Sanction

(\$ 000's)	Actuals & Current Forecast		ISR Plan Budget	
	FY23 Actuals & Forecast	Total Project Cost Forecast	FY23 Budget	Total Project Cost Forecast
Warren Substation	\$1,555	\$10,271	\$1,824	\$9,685

During the first six months of the Plan Year, capital spending on the Warren Substation project was \$0.2 million. The Company is forecasting capital spending of \$1.6 million. Design and material procurement will take place during the year as well as a full sanction in the winter.

In total, the Company currently expects capital spending of \$10.3 million for this project compared to the \$9.7 million budget presented in the FY 2023 ISR Plan. Forecasted spending was increased for potential flood mitigation. This project will expand the Warren 115/12.47kV substation by adding two new distribution feeders and two 7.2 MVAR station capacitor banks. The new feeders will be routed into Barrington and used to retire the Barrington substation. This expansion project addresses asset and safety concerns at the Barrington substation and is part of a comprehensive plan that eliminates the need for major upgrades on the 23kV sub-transmission system and the need to build a new 115/23kV station at Mink Street.

Tiverton

Tiverton Area Study 33F6

In the Tiverton area, there is currently a DG application that requires the installation of a new feeder, 33F6. This generation site is expected to be in-service late 2022 or early 2023. The Tiverton Area Study (September 2021) identified the need to extend the proposed 33F6 circuit to the south for thermal (capacity) limits, contingency response capability, and voltage issues. The Study included a cash flow showing the circuit extension to be in-service in 2028. As a result of cost sharing complications that are expected to occur for this project, the Company plans to include the Tiverton 33F6 extension project in Attachment G of future ISR Plan quarterly reports.

Attachment H

US Electricity Distribution - Rhode Island Meter Purchases For the Six Months Ending September 30, 2022

<u>Quantity of Meters Purchased</u>		
Type	Description	Quantity
METER	CENTRON - 2S 240V CL200	3,360
METER	CENTRON - 12S ERT CL200	5,040
METER	KV2C METER 9S	192
INSTRUMENT TRANSFORMER	CUR OUTDOOR 70/1 8.4KV	20
INSTRUMENT TRANSFORMER	CUR OUTDOOR 200/1	8
INSTRUMENT TRANSFORMER	CUR OUTDOOR 15KV	15
INSTRUMENT TRANSFORMER	CUR OUTDOOR 5/5 15KV	12
INSTRUMENT TRANSFORMER	CUR OUTDOOR 25/5 15KV	23
INSTRUMENT TRANSFORMER	CUR OUTDOOR 50/5 15KV	16
INSTRUMENT TRANSFORMER	CUR OUTDOOR 75/5 15KV	18
INSTRUMENT TRANSFORMER	CUR OUTDOOR 100/5 15KV	12
INSTRUMENT TRANSFORMER	200:5 CAP	10
	TOTAL	8,726