

May 15, 2018

BY HAND DELIVERY AND ELECTRONIC MAIL

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

**RE: Docket 4682 - Electric Infrastructure, Safety, and Reliability Plan
Quarterly Update – Fourth Quarter Ending March 31, 2018**

Dear Ms. Massaro:

On behalf of National Grid,¹ I have enclosed ten copies of the Company's fiscal year (FY) 2018 Electric Infrastructure, Safety, and Reliability (ISR) Plan quarterly update for the fourth quarter ending March 31, 2018. Pursuant to the provisions of the approved FY 2018 Electric ISR Plan, 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 matter. If you have any questions, please contact me at 781-907-2121.

Very truly yours,



Raquel J. Webster

Enclosures

cc: Docket 4682 Service List
Leo Wold, Esq.
Al Contente

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

Electric Infrastructure, Safety, and Reliability Plan

FY 2018 Quarterly Update

Fourth Quarter Ending March 31, 2018

EXECUTIVE SUMMARY

As shown on Attachment A,¹ for fiscal year 2018 (FY 2018), the Company² spent \$103.1 million for capital investment projects against a FY 2018 budget of \$100.6 million. Overall, spending for FY 2018 was over-budget by approximately \$2.5 million. The Non-Discretionary category was approximately \$4.1 million over-budget, and the Discretionary category was approximately \$1.6 million under-budget. Each category is addressed in more detail below.

On July 11, 2016, the Rhode Island Public Utilities Commission (PUC) issued an Order³ directing the Company to provide more detail on capital spending in the Damage/Failure category. The detail on capital spending must include work type, location, and, where applicable, Level 1 Inspections and Maintenance (I&M) repairs completed with Damage/Failure funding. The Company has included additional detail on Level 1 I&M repairs in Section 5 of this report and has included summary information on capital spending in the Damage/Failure category in Attachment F of this report. Attachment F is also included as an executable Excel file that organizes raw data captured in the Company's financial, asset, and work management systems.

In Order No. 22471, the PUC also directed the Company to manage the South Street ISR Plan budget separate from other discretionary projects in the Plan. The Company also agreed to provide a quarterly budget and project management report on the South Street project. The latest report for December 2017 is included as Attachment G of this report.

In Order No. 22955, the PUC directed that, commencing with the FY 2018 RI Electric ISR Third Quarter Report, the Company include an explanation of all new technologies that National Grid is exploring to assist in distribution planning, particularly related to the integration of distributed energy resources or providing additional visibility on the distribution grid.⁴ The most recent update is provided in Section 2 (e) below.

¹ For informational purposes, Attachment A has a line item for the \$4.0 million estimated transfer from A&G expense to capital as a result of the adjusted revenue requirement in Docket No. 4770.

² The Narragansett Electric Company d/b/a National Grid (National Grid or the Company).

³ Written Order No. 22471 (issued on July 11, 2016 in Docket No. 4592), at pages 16, 29.

⁴ Written Order No. 22955 (issued on November 14, 2017 in Docket No. 4682) at page 19.

As noted above, actual spending exceeded the budget by \$2.5 million. In addition, to account for a recent adjustment provided in the revenue requirement in the Company's rate case in Docket No. 4770, the Company will be increasing actual ISR capital spending for FY 2018 as a result of an Administrative & General (A&G) activity time study. This A&G study was completed by a third-party consulting firm. As a result of that review and supporting time study, the Company determined that an adjustment was necessary to capitalize work activity performed in direct or indirect support of construction consistent with commonly accepted industry practices and allowed for by the FERC Uniform System of Accounts. The total adjustment to be credited to expense and debited to capital is \$4.0 million. This adjustment is reflected on the bottom of Attachment A. As a result, adjusted ISR spending for FY 2018 will total \$107.1 million, which is \$6.5 million over the FY 2018 ISR budget of \$100.6 million. The Company plans to reflect the final assignment of these costs to the appropriate spending categories of the FY 2018 ISR as part of the annual reconciliation filing to be submitted on August 1, 2018. This is consistent with the Company's related operations and maintenance expense adjustment that was reflected as a reduction to the base rate revenue requirement as addressed in Docket 4770.

I. FY 2018 Capital Spending by Key Driver Category

1. Non-Discretionary Spending

a. Customer Request/Public Requirement - \$3.1million under-budget variance

Capital spending for FY 2018 in the Customer Request/Public Requirement category (*previously called the Statutory/Regulatory category*) was approximately \$18.8 million, which was \$3.1 million under the FY 2018 budget of \$21.9 million. This under-budget variance was driven primarily by the following under-budget projects:

- The net spending on "Distributed Generation" project spending was \$0.2 million, which results in a total under-budget balance of \$0.9 million. This variance was driven primarily by the Company's collection of reimbursements for prior and future capital spending on projects.
- Capital spending for FY 2018 on New Business Residential and Commercial projects was \$9.9 million, which was a combined \$3.9 million under the FY 2018 budget of \$13.8 million. This under-budget variance was primarily driven by capital spending on the liquefied natural gas (LNG) Plant service terminal in Providence, which was under-budget FY 2018 by approximately \$2.4 million. This variance was due to a reimbursement the Company received in FY 2018 (April 2017), which the Company expected in FY 2017 (March 2017).

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

- Capital spending for FY 2018 on the Citizens Bank Infrastructure Project was \$0.9 million. This project was not budgeted for the fiscal year.
- Capital spending for FY 2018 on Meter Purchases was \$1.7 million, which was \$0.7 million over the fiscal year budget of \$1.0 million due to the earlier than planned delivery of the meter inventory.
- Capital spending for FY 2018 on Transformer Purchases was \$2.7 million, which was \$0.6 million over the fiscal year budget of \$2.1 million due to the earlier than planned delivery of the transformer inventory.

b. Damage/Failure - \$7.2 million over-budget variance

Capital spending for FY 2018 in the Damage/Failure category was \$18.6 million, which was approximately \$7.2 million over the FY 2018 budget of \$11.4 million for this category. This variance was driven primarily by the following over-budget projects:

- Capital spending on the Storm Capital Confirming program was \$7.5 million which was \$5.9 million over the FY 2018 budget of \$1.6 million. The October 29, 2017 Wind/Rain Storm and the March 1, 2018 Wind/Snow Storm were the two largest weather events contributing \$2.6 million and \$2.2 million respectively in this category.
- Capital spending on the Ocean State Damage/Failure Blanket was \$10.7 million which was \$1.4 million over the FY 2018 budget of \$9.3 million. The Company monitors charges to this blanket to minimize discretionary work from being incorrectly charged to this project.

In summary, as shown in Attachment A, capital spending for FY 2018 in the Non-Discretionary Sub-category was \$37.4 million, which was approximately \$4.1 million over the FY 2018 budget of \$33.2 million.

2. Discretionary Spending

a. Asset Condition (without South Street) - \$0.5 million under-budget variance

Capital spending for FY 2018 YTD in the Asset Condition category (absent the South Street project) was approximately \$16.7 million, which was \$0.5 million under the FY 2018 budget of approximately \$17.2 million. The total variance for this category was driven primarily by the following under-budget projects:

- Capital spending for FY 2018 on the Underground Residential Development Injection/Rehabilitation projects was \$1.9 million, which was approximately \$0.9 million under the fiscal budget of approximately \$2.8 million primarily due to civil construction starting later than originally planned and impact from winter storm events.
- Capital spending for FY 2018 for the West Cranston Transformer project was approximately \$0.5 million for the fiscal year, which was \$0.5 million under the fiscal year budget of \$1.0 million due to project schedule partially phased out in FY 2019.

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

- Capital spending for FY 2018 for the Ocean State Asset Replacement Blanket was approximately \$2.9 million, which was \$0.6 million over the fiscal year budget of \$2.3 million. This variance was due to higher than anticipated spending on small-scale asset replacement work.
- The Company advanced an unbudgeted project to replace the extremely deteriorating structure and equipment at the Geneva Substation. The Company spent \$0.4 million on the project, and construction is complete.

b. Non-Infrastructure – \$0.2 million under-budget variance

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

c. System Capacity and Performance - \$1.2 million over-budget variance

Capital spending for FY 2018 for the System Capacity and Performance category was \$25.0 million, which was approximately \$1.2 million over the FY 2018 budget of approximately \$23.8 million. This variance was driven primarily by the following over-budget projects:

- Capital spending for FY 2018 on the Aquidneck Island projects was \$6.2 million which was approximately \$1.9 million over the budget of \$4.3 million for the project. The variance was primarily due to first milestone payment to EPC contractor was earlier than original plan.
- Capital spending for FY 2018 on the Quonset Substation Expansion project was approximately \$3.7 million, which was \$0.9 million over the FY 2018 budget of \$2.8 million. This variance was driven by a higher labor cost estimate than planned.
- Capital spending for FY 2018 on the Volt/Var D-Line Project was approximately \$1.6 million, which was \$0.2 million over the fiscal year budget of \$1.4 million. The variance was primarily due to higher communications solution than initially budgeted for the project.
- Capital spending for FY 2018 on the New Highland Drive Substation project was \$1.5 million, which was \$0.2 million over the FY 2018 budget of \$1.3 million for the project. The variance was primarily due to higher labor cost than initial budget.

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

- Capital spending for FY 2018 on the New London projects was \$4.2 million, which was approximately \$1.5 million under the FY 2018 budget of \$5.7 million for the project. The variance was primarily due to a slight delay in start of construction than originally planned.
- Capital spending for FY 2018 on the Chase Hill projects was \$3.0 million, which was approximately \$0.8 million under the FY 2018 budget of \$3.8 million for the project.

d. South Street Project – \$2.1 million under-budget variance

Capital spending for FY 2018 on the South Street Indoor Substation Replacement project was \$23.7 million, which is \$2.1 million under the fiscal year budget of \$25.8 million. The primary driver for this variance was the current capital overhead allocations, which were lower than the original estimates.

Finally, as shown in Attachment A, total capital spending for FY 2018 in the Discretionary Sub-category was approximately \$65.8 million, which was approximately \$1.6 million under the FY 2018 budget of \$67.4 million. As noted above, the South Street project was \$2.1 million under-budget at the end of the fiscal year. Capital spending in the remaining Discretionary Sub-category was \$42.0 million, which was \$0.4 million over the FY 2018 budget of \$41.6 million.

In Docket No. 4473, the PUC ordered the Company to include, beginning with the FY 2017 Electric ISR Plan filing, a proposal to identify and report in quarterly and annual reconciliation filings the projects that exceeded or were under the fiscal year-to-date and fiscal year-end budgets by ten percent (10%).⁵ For the identified projects, the Company must note whether variances were due to the project being accelerated or delayed, or whether the variances were due to an increase or decrease in total project cost. The Company agreed to provide in the quarterly reports explanations for the portfolio of large projects⁶ with variances that exceed +/- 10% of the annual fiscal year budget. These projects represented approximately \$23.4 million of the total FY 2018 budget of \$100.6 million. Specific project information is provided in Attachment E.

e. New Distribution System Technology Update

In Order No. 22955, the PUC directed that, commencing with the FY 2018 RI Electric ISR Third Quarter Report, the Company include an explanation of all new technologies that National Grid is exploring to assist in distribution planning, particularly related to the integration of distributed energy resources or providing additional visibility on the distribution grid.⁷

The Company has the CYME hosting capacity software installed and running. Analysis is underway and results are being obtained.

To improve the visibility of the distribution grid to distributed energy resource providers, the Company proposed to begin work on a Data Portal within the 2018 System Reliability Procurement (SRP) Report. National Grid remains on track to deliver the first phase by June 2018.

⁵ Docket No. 4473 Order No. 21559 at p. 25.

⁶ Large projects are defined as exceeding \$1.0 million in total project cost.

⁷ Written Order No. 22955 (issued on November 14, 2017 in Docket No. 4682) at page 19.

3. Investment Placed-in-Service

Overall, \$92.7 million of investment was placed-in-service during FY 2018 which was an increase from the original FY 2018 Electric ISR Plan forecasted amount of \$74.8 million. A major driver of this plant-in-service variance was the South Street project, portions of which were placed in-service in the fourth quarter of FY 2018. Details by spending rationale are included in Attachment B.

The Non-Discretionary Sub-category had \$35.9 million of plant additions placed in service, which was \$3.2 million over the planned amount of \$32.7 million. This variance is primarily driven by the \$2.6 million over-budget variance in the Damage/Failure category.

The Discretionary Sub-category had \$56.7 million of plant additions placed in service, which was \$14.6 million over the planned amount of \$42.1 million. This primarily was driven by portions of South Street project being placed in-service in FY 2018 than originally forecasted.

4. Vegetation Management (VM)

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

Attachment C provides the FY 2018 spending for all sub-components in the VM category.

5. Inspection and Maintenance (I&M)

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

The Company began performing inspections on its overhead distribution system in FY 2011, and, in FY 2012, began performing the repairs based on those inspections. The Company categorizes the deficiencies found as Level I, II, or III, and repairs Level I

deficiencies either immediately or within approximately one week of the inspection. The Company bundles Level II and III work for planned replacement. As the end of FY 2018, the Company has completed repairs reported for approximately 31% of the total deficiencies found. Total deficiencies found and repairs made-to-date is shown in the table below.

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

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

As shown in the table below, results of the Company’s manual elevated voltage testing for FY 2018 have not indicated any instances of elevated voltages found through either overhead or manual elevated voltage inspections.

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

Attachment A
US Electricity Distribution - Rhode Island
Capital Spending by Spending Rationale
FY 2018
(\$000)

	FY 2018 Total		
	Budget	Actual	Variance*
Customer Request/Public Requirement	\$21,853	\$18,794	(\$3,059)
Damage Failure	\$11,379	\$18,566	\$7,187
<i>Subtotal Non-Discretionary</i>	\$33,232	\$37,360	\$4,128
Asset Condition	\$17,207	\$16,669	(\$538)
Non-Infrastructure	\$553	\$349	(\$204)
System Capacity & Performance	\$23,855	\$25,025	\$1,170
<i>Subtotal Discretionary (Without South Street)</i>	\$41,615	\$42,043	\$428
South Street Project	\$25,773	\$23,712	(\$2,061)
<i>Subtotal Discretionary</i>	\$67,388	\$65,755	(\$1,633)
Total Capital Investment in System- Unadjusted	\$100,620	\$103,115	\$2,495
A&G Accounting Adjustment- Transfer to Capital**		\$4,003	
Total Capital Investment in System- Adjusted	\$100,620	\$107,118	\$6,498

* () denotes an underspend for the period.

** Estimated transfer from A&G expense to capital. O&M revenue requirement has been adjusted in Docket 4770.

Attachment B
US Electricity Distribution - Rhode Island
Plant Additions by Spending Rationale
FY 2018
(\$000)

	FY 2018 Annual ISR Forecast	FY 2018 Year End Actual	Variance of Actual to Forecast*	% of FY 2018 Year-end Forecast Placed in Service
Customer Request/Public Requirement	\$20,202	\$20,874	\$672	103%
Damage Failure	\$12,529	\$15,085	\$2,556	120%
<i>Subtotal Non-Discretionary</i>	\$32,731	\$35,958	\$3,227	110%
Asset Condition (w/South Street)	\$22,199	\$44,645	\$22,446	201%
Non- Infrastructure	\$0	\$3	\$3	N/A
System Capacity & Performance	\$19,913	\$12,103	(\$7,810)	61%
<i>Subtotal Discretionary</i>	\$42,112	\$56,750	\$14,638	135%
Total Capital Investment in System	\$74,843	\$92,709	\$17,866	124%
* () denotes an underspend for the period				

Attachment C
US Electricity Distribution - Rhode Island
Vegetation Management O&M Spending
FY 2018
(\$000)

	FY 2018 Annual ISR Budget	FY 2018 Actual Spend	Variance of Actual to Budget*	FY 2018 % Spend
Cycle Pruning (Base)	\$5,500	\$5,458	(\$42)	99%
Hazard Tree	\$1,250	\$1,113	(\$137)	89%
Sub-T (on & off road)	\$650	\$468	(\$182)	72%
Police/Flagman Details	\$775	\$910	\$135	117%
Core Crew (all other activities)	\$1,225	\$1,566	\$341	128%
Total VM O&M Spending	\$9,400	\$9,515	\$115	101%
* () denotes an underspend for the period				

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

Attachment D
US Electricity Distribution - Rhode Island
Inspection and Maintenance Program O&M Spending
FY 2018
(\$000)

	FY 2018 Annual ISR Budget	FY 2018 Actual Spend	Variance*	FY 2018 % Spent
Opex Related to Capex	\$362	\$143	(\$219)	40%
Repair & Inspections Related Costs	\$623	\$455	(\$168)	73%
System Planning & Protection Coordination Study	\$25	\$18	(\$7)	70%
VVO/CRV Program	\$60	\$69	\$9	115%
Total I&M O&M Spending	\$1,070	\$684	(\$386)	64%
* () denotes an underspend for the period				

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

Attachment E
US Electricity Distribution - Rhode Island
Project Variance Report
FY 2018
(\$000)

Project Description	Project Funding	FY 2018 Total			Variance Cause
		Budget	Actual	Variance	
Aquidneck Island Projects (Gate 2, New port, Jepson)	CD00649, C024159, C015158, C028628, C054054, CD00656	\$4,301	\$6,221	\$1,920	First milestone payment to EPC contractor performed in FY 18, but no change to overall project cost.
Citizens Bank Infrastructure	C073957	\$0	\$947	\$947	Emergent mandatory customer project.
Volt/Var Program	C077201, C075571, C053111, C076367, C046352, C075573, C076365, C077200, C053488, C052708	\$1,400	\$1,624	\$224	Construction completed in Q4. Communication solution higher than initial budget.
New Highland Drive Distribution	CD00978	\$1,329	\$1,503	\$174	Higher labor cost than initial budget. No change to project scope.
Franklin Square Breaker Replacements	C068686	\$1,450	\$1,866	\$416	Schedule carryover of work from FY 2017.
New London Avenue Substation	C028920, C028921	\$5,670	\$4,164	(\$1,506)	Construction start slightly delayed from original plan. No change to overall project.
West Cranston Transformer Replacement	C055844	\$1,008	\$454	(\$554)	Project schedule partially phased to FY 2019. No change to project scope.
Quonset Sub D-Line and D-Sub	C053646, C053647	\$2,789	\$3,708	\$919	Increase in labor cost estimate from planning to project grade estimate. No change to project scope.
Chase Hill D-Line and D-Sub	C024175, C024176	\$3,856	\$3,028	(\$828)	Advanced project in FY 2017
LNG D-Line and D-Sub	C051203, C051204	\$2,283	(\$140)	(\$2,423)	Reimbursement planned to occur in FY 2017 when budget was set. Reimbursement received in FY 2018.
		\$24,086	\$23,375	(\$711)	
* () denotes an underspend for the period					

Attachment F
US Electricity Distribution - Rhode Island
Damage/Failure Detail by Work Type
FY 2018

	Project Type					Grand Total
	D-Line Blanket	D-Line Property Damage	D-Line Storm	D-Sub Blanket	D-Sub & D-Line Specific	
AFUDC	\$8,933	(\$1)	\$15,475	(\$6,427)	\$3,266	\$21,246
Default Accounting	\$1,632,594	\$20,389	(\$767,437)	(\$79,856)	\$66,099	\$871,789
Engineering/Design/Supervision	\$972,389	\$49,728	\$612,284	\$47,335	\$138,749	\$1,820,484
Outdoor Lighting - Cable/Wire	\$26,173	\$201	\$32	\$0	\$0	\$26,406
Outdoor Lighting - Framing	\$175,482	\$2,701	\$3,469	\$0	\$0	\$181,652
Outdoor Lighting - Poles/Foundation	\$26,809	\$5,720	\$0	\$0	\$0	\$32,529
Overhead Bonding/Grounding	\$21,376	(\$585)	\$2,011	\$0	\$0	\$22,802
Overhead Services	\$249,444	\$4,140	\$220,821	\$0	\$0	\$474,405
Overhead Switches/Reclosers/Fuses	\$651,292	(\$1,456)	\$153,804	\$0	\$0	\$803,640
Overhead Transformers/Capacitors/Regulators/Meters	\$692,445	\$28,483	\$402,026	\$0	\$0	\$1,122,954
Overhead Wire & Conductor	\$340,561	\$14,466	\$283,276	\$0	\$0	\$638,303
Pole Framing	\$205,554	\$1,529	\$131,305	\$0	\$0	\$338,388
Poles/Anchors/Guying	\$1,081,576	\$241,108	\$6,139,243	\$0	\$0	\$7,461,927
Substation Equipment Installations	\$9,844	\$0	\$0	\$468,576	\$110,774	\$589,194
Substations Civil/Structural	\$0	\$0	\$0	\$8,210	\$182,179	\$190,389
Switching and Restoration	\$65,784	\$0	\$189	\$10,574	\$0	\$76,548
Traffic Control	\$358,621	\$65,336	\$125,213	\$429	\$0	\$549,599
Underground Cable	\$1,964,570	\$58,954	\$49,418	\$0	\$0	\$2,072,942
Underground Cable Splicing	\$103,468	\$234	\$2,027	\$0	\$0	\$105,729
Underground Civil Infrastructure	\$449,610	\$56,577	\$8,021	\$0	\$0	\$514,207
Underground Direct-Buried Cable	\$113,032	\$804	\$8,863	\$0	\$0	\$122,699
Underground Services	\$31,188	\$6,291	\$32,837	\$0	\$0	\$70,316
Underground Switches/Reclosers/Fuses	\$108,204	\$2,978	\$5,203	\$0	\$0	\$116,386
Underground Transformers/Capacitors/Regulators/Meters	\$301,322	\$2,041	\$37,784	\$0	\$0	\$341,146
Grand Total	\$9,590,271	\$559,638	\$7,465,863	\$448,841	\$501,067	\$18,565,679

* () denotes an underspend for the period.

In some cases, the default accounting operation is used to capture work performed.

The two largest weather events contributing to the D-Line Storm category were the 10/29/2017 Wind/Rain Storm and 3/1/2018 Wind/Snow storm, at \$4.8 million.

The Franklin Square Protection Scheme Replacement costs are in the D-Sub specifics category.

Attachment G
US Electricity Distribution - Rhode Island
South Street Budget and Project Management Report
April 2018 Update

South Street Project Status Update Meeting

nationalgrid
HERE WITH YOU. HERE FOR YOU.



South Street Project: Agenda

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- Safety Moment
- Project Milestone Schedule
- March Deliverables
- April Deliverables
- TRC Payment Schedule
- Open PCRs
- Other



South Street Project: Safety Moment

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- Driving Safety
 - Winter conditions
 - Prepare now
 - Snow tires, emergency kit in vehicle

- Construction site safety update – TRC
 - Overall site safety



South Street Project: Major Milestones

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South Street Upcoming Milestones	
Milestone	Scheduled Date
Begin Transmission Conduit Installation	5/2016
Building Foundation Pile Installation completion	7/2016
First Transmission Outage – MH installation	9/2016
Building Foundation completion	10/2016
Distribution Duct bank – start of installation	1/2017
Complete building enclosure	2/2017
Substation Construction Complete	11/2017
Start of testing and commissioning	11/2017
Distribution Cutover – Phase 1 (Start)	2/2018
Distribution Cutover – Phase 2 (Start)	9/2018
Distribution Cutover – Phase 3 (Start)	2/2019
Cutover Complete	4/2019
Completion of Demolition of existing substation	9/2019



South Street Project: March Deliverables



TRC Deliverables

- Ground Grid – Complete
- Distribution cable install - Complete
- Distribution cable test - Complete
- Energize T3 cable - complete
- Energize 115kV transformer - complete
- Distribution cutovers - started



South Street Project: April Deliverables



Deliverables

- Continue with section 3 distribution cutovers – Ongoing/ahead of schedule



South Street Project: TRC FY19 Payment Schedule



Distribution							
	April	May	August	October	December	February	March
C051212	\$0.00	\$79,504.00	\$0.00	\$39,752.00	\$0.00	\$0.00	\$1,359,018.00
C051213	\$0.00	\$211,110.00	\$0.00	\$105,554.00	\$0.00	\$0.00	\$0.00

Transmission								
	April	May	August	October	November	December	February	March
C055584	\$0.00	\$141,596.00	\$0.00	\$70,797.00	\$0.00	\$0.00	\$0.00	\$628,535.00
C055585	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
C055586	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
C055623	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

