

October 15, 2019

**VIA HAND DELIVERY & ELECTRONIC MAIL**

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

**RE: Docket 4857 - Adoption of Performance Incentives Pursuant to  
R.I. Gen. Laws § 39-1-27.7.1(e)(3)  
Responses to PUC Data Requests – Set 2**

Dear Ms. Massaro:

On behalf of National Grid,<sup>1</sup> I have enclosed ten (10) copies of the Company's responses to the Public Utilities Commission's Second Set of Data Requests in the above-referenced docket.

Thank you for your attention to this transmittal. If you have any questions, please contact me at 401-784-7288.

Very truly yours,



Jennifer Brooks Hutchinson

Enclosures

cc: Docket 4857 Service List  
Leo Wold, Esq.  
Christy Hetherington, Esq.

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

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.



\_\_\_\_\_  
Joanne M. Scanlon

October 15, 2019  
Date

**Docket No. 4915 - National Grid's Electric ISR Plan FY 2020**  
**Docket No. 4857 - Performance Incentives Pursuant to R.I.G.L. §39-1**  
**27.7.1(e)(3)**

**Service List as of 8/15/2019**

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<b>File an original &amp; ten copies w/:</b> Luly E. Massaro, Commission Clerk John Harrington, Commission Counsel Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	<a href="mailto:Luly.massaro@puc.ri.gov">Luly.massaro@puc.ri.gov</a> ; <a href="mailto:John.harrington@puc.ri.gov">John.harrington@puc.ri.gov</a> ; <a href="mailto:Cynthia.WilsonFrias@puc.ri.gov">Cynthia.WilsonFrias@puc.ri.gov</a> ; <a href="mailto:Todd.bianco@puc.ri.gov">Todd.bianco@puc.ri.gov</a> ; <a href="mailto:Alan.nault@puc.ri.gov">Alan.nault@puc.ri.gov</a> ;	401-780-2107

In Re: Adoption of Performance Incentives  
Pursuant to R.I. Gen. Laws § 39-1-27.7.1(e)(3)  
To Apply to the Electric Infrastructure, Safety, and Reliability Plan  
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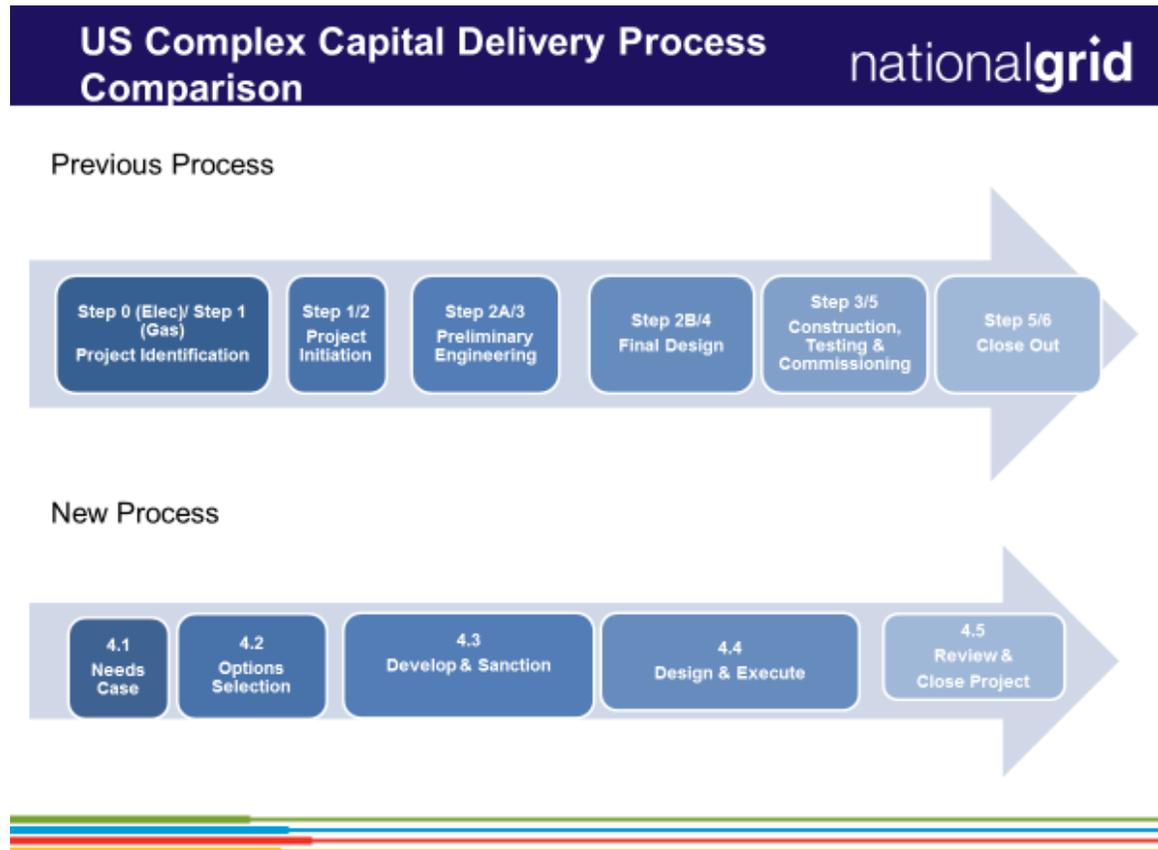
PUC 2-1

Request:

Please provide definitions for each of the project development stages/grades, including each name by which these stages have been identified in the past 13 years to the PUC. Please explain what considerations are included in each of these stages/grades. (note, this question was asked as Record Request No. 4 in Docket No. 4592 – this is looking for an update).

Response:

The estimates used at National Grid for Complex Projects now follow a new process. The new complex capital delivery process is compared to the previous process in the following chart.



PUC 2-1, page 2

The Company has included alternative naming conventions to define estimate grades, including in submissions to the PUC. A summary of the previously used estimate grades and other terms used are as follows:

Investment: -50%/+200% (aka Order Of Magnitude, Initial, Step 0)  
Conceptual: -25%/+50% (aka Conceptual Engineering, Step 0)  
Planning: -25%/+25% (aka Study, Preliminary, Preliminary Engineering, Step 2A)  
Project: -10%/+10% (aka Construction, Final, Final Engineering, Step 2B, STORMS)

Under the new capital delivery process, estimates are developed as follows.

Needs Case & Options Selection Stages 4.1 and 4.2 Estimates (formerly Project Identification & Initiation)

Distribution Planning & Asset Management (DPAM) are responsible for projects in Stages 4.1 and 4.2. Since the needs case and options selection information are based on preliminary scope definition, estimates requested at the 4.1 and 4.2 stages have a corresponding level of estimate accuracy. The project sponsor applies a decision tree to determine if the estimate can be created using a Cost Book. The Cost Book is a high-level estimating tool developed to help quickly estimate projects or compare project options. The Electric Cost Book is a collection of “super units” and rates encompassing elements such as Substations, Over Head Lines (OHLs), Cables and associated civil works. If the Cost Book cannot be used, either previous similar projects are used as an estimate source or estimates are developed by the Project Estimating team. The complex capital process aims to have estimates at +50%/-25% range a by the end of Stage 4.2, when the project progresses from DPAM to Project Development.

Develop & Sanction Stage 4.3 Estimate (formerly Preliminary Engineering)

Project Development is responsible for Stage 4.3, which focuses on detailed scope development of the preferred option (identified in Stage 4.2) to the level of accuracy required to achieve sanction and then progress to the 4.4a – Detail Design stage. The Estimating Group works with Project Development and the rest of the project team to develop a project cost estimate at this stage based on Engineering 4.3 Designs, risk, actual costs incurred to-date, and expected costs to fully complete the project. The project cost estimate at this stage includes a contingency amount based on a full risk assessment. The risk contingency is developed using a quantitative risk analysis that provides a range of possible project costs based on risks identified in the risk register. A 50% confidence estimate is used for sanction. This is the value, considering all the

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identified risks, we have 50% confidence in or (statistically speaking) 50% of the time we will deliver the project for this amount. Projects are sanctioned at the end of this process with a +/- 10% allowable variance governance. However, the complex capital estimating process also consults with industry practice for estimating tolerances, which can range between 10% to 40% using an 80% confidence estimate for this stage of projects. The project progresses from Project Development to Project Management at the end of this stage.

Design & Execute Stage 4.4 Estimate (formerly Final Design & Construction, Testing, and Commissioning)

Detail design focuses on the completion and approval of the finalized engineering designs to be used for constructing the project. The project estimate is updated if necessary, based on any changes in scope or risk. Any changes to the project estimate would not be re-sanctioned unless the variance tolerances were exceeded.

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PUC 2-2

Request:

For each ISR project (since inception) with a budget exceeding \$500,000, please indicate whether the project was discretionary or nondiscretionary, the year the project was included in the spending budget, the amount included in that year, the total project cost estimate, the project development stage (and associated +/-), and the expected completion date.

Response:

Attachment PUC 2-2 is a listing of all projects with actual cumulative spending since the inception of the ISR greater than \$500,000. Since the proposed Capital Efficiency Mechanism compares total project estimate to closed project cost, the cumulative spending seemed to be the most reasonable method for identifying projects to review. Each project shows actual capital spending in each year of the ISR, its classification as Discretionary and Non-Discretionary, the actual or estimated close date, the current project cost approved amount, and the total to date spending through FY19.

Some projects are given a Delegation of Authority, or sanction, as part of a group of project components under different funding projects. Projects with multiple components under one sanction, are grouped together (whether they are Distribution or Transmission). Also, since capital, cost of removal, and associated operations & maintenance expenses are combined for sanction, the current project cost approved amount and total to date actuals also consist of capital, cost of removal, and associated operations & maintenance expense.

The associated tolerance percentage provided is the most recent. The Company does not automatically track development stage and associated tolerance percentage on a historical basis for each year a project was in the ISR, and would need to perform a manual review of each project to obtain this information, where available. This would be a time-consuming and manual exercise, which was not possible to perform during the timeframe for responding to this data request.

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Attachment PUC 2-2

Please see Attachment PUC 2-2 on 11 x 17 paper



USSC #	FP Proj No	Proj Description 2 (for pivot table)	SEGMENT (Distribution or Transmission)*	Discretionary/Non-Discretionary	Funding Project Status	If Closed, funding project close date	Expected/Actual Financial Completion Date	If Distribution Open, Status as of March 2019	If Open, Current Tolerance %	Sum of TTD Spend (through FY2019)	Sum of Current Project Approved Amount (Cap+Removal+Opex)**	FY2012 Actual ISR Capital	FY2013 Actual ISR Capital	FY2014 Actual ISR Capital	FY2015 Actual ISR Capital	FY2016 Actual ISR Capital	FY2017 Actual ISR Capital	FY2018 Actual ISR Capital	FY2019 Actual ISR Capital	TOTAL Actual ISR Capital (FY2012-FY2019)	
USSC-12-287 v4	C04353	Highland Dr. Taps	TRANSMISSION (Non-ISR)	N/A - transmission	Closed	7/31/2015				1,663,149											
	C04355	Highland Drive Substation	TRANSMISSION (Non-ISR)	N/A - transmission	Closed	2/7/2019				2,879,375											
	CD00972	New Highland Drive Substation - DSU	DISTRIBUTION	Discretionary	Closed	2/7/2019				12,144,035			68,803	6,978,000	5,555,000	(479,139)	(1,130)	-	-	-	12,121,534
	CD00978	New Highland Drive Substation - DLI	DISTRIBUTION	Discretionary	Closed	2/7/2019				4,329,793			10,099	1,696,000	541,000	10,269	80,458	1,568,213	117,579	-	4,023,617
<b>USSC-12-287 v4 Total</b>										21,016,352	21,169,000		78,901	8,674,000	6,096,000	(468,870)	79,328	1,568,213	117,579	-	16,145,151
USSC-12-346 v2	C036516	Kilvert St 87 - New Fdr (D-Line)	DISTRIBUTION	Discretionary	open		Mar-2020	Construction		3,726,712			14,907	1,182,000	1,144,000	793,832	296,083	(4,754)	455	-	3,426,524
<b>USSC-12-346 v2 Total</b>										3,726,712	3,831,000		14,907	1,182,000	1,144,000	793,832	296,083	(4,754)	455	-	3,426,524
USSC-12-355C	C043894	Kent County 115/12 2nd Transformer	TRANSMISSION (Non-ISR)	N/A - transmission	Closed	2/9/2018				761,665											
	CD01101	Kent County 2nd Transformer (D-Sub)	DISTRIBUTION	Discretionary	Closed	5/29/2018				2,476,967			219	79,000	350,000	315,605	1,517,081	64,972	9,590	-	2,336,468
	CD01102	Hunt River Substation Retirement	DISTRIBUTION	Discretionary	Closed	4/20/2018				524,057			-	26,000	(29,000)	671	5,747	(3,817)	-	-	(399)
	CD01104	Kent County 2nd Transformer (D-Line)	DISTRIBUTION	Discretionary	Closed	10/31/2017				170,044			-	11,000	15,000	269	157,226	(16,282)	-	-	167,213
<b>USSC-12-355C Total</b>										3,932,733	3,933,000		219	116,000	336,000	316,546	1,680,054	44,873	9,590	-	2,503,282
USSC-12-433 v5C	CD01242	Pontiac Substation Flood Restoratio	DISTRIBUTION	Discretionary	Closed	4/15/2016				3,117,646			40,153	413,000	1,525,000	1,096,031	(5,095)	-	-	-	3,069,089
	CD01243	Pontiac Substation Flood Restoratio	DISTRIBUTION	Discretionary	Closed	5/2/2016				630,417			936	12,000	265,000	315,436	-	-	-	-	3,693,372
<b>USSC-12-433 v5C Total</b>										3,748,063	3,751,000		41,089	425,000	1,790,000	1,411,467	(5,095)	-	-	-	3,662,461
USSC-12-444 v3C	C036230	Langworthy Substation (D-Sub)	DISTRIBUTION	Discretionary	Closed	7/11/2016				1,702,060			69,261	1,162,000	396,000	48,975	-	-	-	-	1,676,236
	C036232	Langworthy Substation (D-Line)	DISTRIBUTION	Discretionary	Closed	11/20/2015				191,113			7,548	108,000	55,000	750	-	-	-	-	171,298
<b>USSC-12-444 v3C Total</b>										1,893,173	1,895,000		76,809	1,270,000	451,000	49,724	-	-	-	-	1,847,534
USSC-12-472v3 (DCIG1008P92)	C028920	New London Ave (D-Sub)	DISTRIBUTION	Discretionary	in service		Mar-2020	Close Out		10,299,412		5,329	153,863	208,000	709,000	1,469,613	200,874	2,756,083	4,724,334	10,227,095	10,227,095
	C028921	New London Ave (D-Line)	DISTRIBUTION	Discretionary	open		Jan-2020	Construction		6,495,034			6,948	3,000	148,000	89,532	68,288	1,586,290	3,377,471	5,279,530	5,279,530
	C030161	Install 795 Al cond. on 3310 Line	TRANSMISSION (Non-ISR)	Discretionary	Closed	12/12/2017				737,466			16,442	-	-	-	-	-	-	-	16,442
	C031696	New London Ave - Tap T-1725	TRANSMISSION (Non-ISR)	N/A - transmission	Closed	8/22/2019				2,485,911											
	C045313	New London WaveTrap	TRANSMISSION (Non-ISR)	N/A - transmission	in service		Dec-2016			100,746											
	C054434	West Cranston Substation Wave Trap	TRANSMISSION (Non-ISR)	N/A - transmission	Closed	9/25/2017				143,947											
	C054436	Johnston Substation Wave Trap	TRANSMISSION (Non-ISR)	N/A - transmission	Closed	3/28/2017				142,334											
<b>USSC-12-472v3 (DCIG1008P92) Total</b>										20,404,851	20,163,000	5,329	177,253	211,000	857,000	1,559,145	269,162	4,342,372	8,101,805	-	15,523,068
USSC-13-007 v3	C044795	BITS Block Island (T-Sub)	TRANSMISSION (Non-ISR)	N/A - transmission	in service		Nov-2015			11,014,864											
	C044797	BITS Mainland (T-Sub)	TRANSMISSION (Non-ISR)	N/A - transmission	in service		Nov-2015			7,087,873											
	C044798	BITS T-Line	TRANSMISSION (Non-ISR)	N/A - transmission	open		Jun-2015			98,539,050											
	C046386	BITS Wakefield Sub Upgrades (D-Sub)	DISTRIBUTION	Non-Discretionary	in service		Oct-2020	Close Out		2,851,663				14,000	69,000	214,156	2,405,000	44,418	3,185	-	2,749,759
	C059842	West Kingston BITS Protection Upgrd	TRANSMISSION (Non-ISR)	N/A - transmission	in service		Jun-2016			266,936											
	C072706	Land-BITS Block Island Sustation	TRANSMISSION (Non-ISR)	N/A - transmission	Closed	5/30/2016				364,996											
	C079660	BITS Spare Cable Reel Foundation	TRANSMISSION (Non-ISR)	N/A - transmission	open		Feb-2018			88,961											
<b>USSC-13-007 v3 Total</b>										120,214,343	133,877,000			14,000	69,000	214,156	2,405,000	44,418	3,185	-	2,749,759
USSC-13-182C	C046506	Tunk Hill Road, Scituave RI, Storm	DISTRIBUTION	Discretionary	Closed	7/1/2016				1,570,456				417,000	893,000	65,433	-	-	-	-	1,375,433
<b>USSC-13-182C Total</b>										1,570,456	1,571,000			417,000	893,000	65,433	-	-	-	-	1,375,433
USSC-13-239-DCIG0109P110	C023852	Inst Ductline Governor St. Prov.	DISTRIBUTION	Discretionary	Closed	11/28/2017				1,532,781		12,704	19,593	212,000	1,161,000	52,149	-	-	-	-	1,457,447
<b>USSC-13-239-DCIG0109P110 Total</b>										1,532,781	1,653,000	12,704	19,593	212,000	1,161,000	52,149	-	-	-	-	1,457,447
USSC-13-285 v2	C050758	Lee St MC Retirement (D-Line)	DISTRIBUTION	Discretionary	open		Oct-2019	Construction		3,778,955				9,000	83,000	25,225	2,541	7,721	2,999,899	3,127,386	3,127,386
	C051118	Lee St MC Retirement (D-Sub)	DISTRIBUTION	Discretionary	open		Dec-2015	Close Out		52,881				3,000	6,000	1,606	9,846	9,148	1,099	-	30,699
<b>USSC-13-285 v2 Total</b>										3,831,836	3,450,000			12,000	89,000	26,831	12,386	16,869	3,000,998	-	3,158,085
USSC-13-294 v2	C050760	Cottage St MC Retirement (D-Line)	DISTRIBUTION	Discretionary	open		Jul-2020	Final Engineering		755,523				12,000	102,000	15,849	2,022	22,535	596,170	-	750,576
	C051126	Cottage St MC Retirement (D-Sub)	DISTRIBUTION	Discretionary	open		Dec-2015	Final Engineering		48,207				3,000	7,000	1,757	35	13,548	2,166	-	27,505
<b>USSC-13-294 v2 Total</b>										803,730	5,000,000			15,000	109,000	17,606	2,057	36,082	598,336	-	778,081
USSC-13-322 v3C	C047422	IRURD Maplewood	DISTRIBUTION	Discretionary	Closed	3/22/2017				1,531,701				11,000	103,000	1,049,840	164,451	-	-	-	1,328,291
<b>USSC-13-322 v3C Total</b>										1,531,701	1,532,000			11,000	103,000	1,049,840	164,451	-	-	-	1,328,291
USSC-14-009 v5	C046352	Volt Var Dline RI Pilot Project	DISTRIBUTION	Discretionary	Closed	4/11/2019				5,438,598				19,000	1,490,000	1,540,206	1,319,335	309,880	41,520	-	4,719,941
	C052708	Volt Var-Substation	DISTRIBUTION	Discretionary	Closed	5/30/2019				239,107				4,000	162,000	56,690	9,138	-	223	-	232,051
	C080657	VVO IS/IT	IS/IT (Non-ISR)	N/A - Non-ISR	Closed	9/18/2018				1,497,826											
<b>USSC-14-009 v5 Total</b>										7,175,531	6,594,000			23,000	1,652,000	1,596,896	1,328,473	309,880	41,743	-	4,951,992
USSC-14-082C	C020297	Sac AB Repl Prog Phase 7 NEC DxT	DISTRIBUTION	Discretionary	Closed	7/12/2016				1,017,988		6,795	420,907	190,000	186,000	2,385	30,183	-	-	-	836,270
<b>USSC-14-082C Total</b>										1,017,988	1,019,000	6,795	420,907	190,000	186,000	2,385	30,183	-	-	-	836,270
USSC-14-123 v2C	C046398	Memorial Blvd Easton's Beach inst d	DISTRIBUTION	Discretionary	Closed	12/2/2016				1,481,730				6,000	27,000	1,089,502	317,099	-	-	-	1,439,601
<b>USSC-14-123 v2C Total</b>										1,481,730	1,481,000			6,000	27,000	1,089,502	317,099	-	-	-	1,439,601
USSC-14-180C	CD00824	Radio Improvement Project.	DISTRIBUTION	Discretionary	Closed	11/3/2014				1,576,534				1,039,438	418,000	-	-	-	-	-	1,457,438
<b>USSC-14-180C Total</b>										1,576,534	1,580,000		1,039,438	418,000	-	-	-	-	-	-	1,457,438
USSC-14-195 v3	C051212	South St repl indoor subst D-SUB	DISTRIBUTION	Discretionary	open		Jan-2020	Close Out		42,028,622					61,000	4,708,057	11,987,796	21,691,510	3,532,320	-	41,980,682
	C051213	South St repl indoor subst D-LINE	DISTRIBUTION	Discretionary	in service		Jan-2020	Close Out		9,973,127					45,000	1,519,510	3,081,994	3,045,617	2,093,740	-	9,785,862
	C055584	South Street Substation Rebuild	TRANSMISSION (Non-ISR)	N/A - transmission	open		Sep-2018														

USSC #	FP Proj No	Proj Description 2 (for pivot table)	SEGMENT (Distribution or Transmission)*	Discretionary/Non-Discretionary	Funding Project Status	If Closed, funding project close date	Expected/Actual Financial Completion Date	If Distribution Open, Status as of March 2019	If Open, Current Tolerance %	Sum of TTD Spend (through FY2019)	Sum of Current Project Approved Amount (Cap+Removal+Opex)**	FY2012 Actual ISR Capital	FY2013 Actual ISR Capital	FY2014 Actual ISR Capital	FY2015 Actual ISR Capital	FY2016 Actual ISR Capital	FY2017 Actual ISR Capital	FY2018 Actual ISR Capital	FY2019 Actual ISR Capital	TOTAL Actual ISR Capital (FY2012-FY2019)	
	C055563	Southeast Sub Tap Line	TRANSMISSION (Non-ISR)	N/A - transmission	open		Apr-2020			237,015											
	C055583	Pawtucket No. 1 Substation	TRANSMISSION (Non-ISR)	N/A - transmission	open		May-2021			556,661											
	C055683	Pawtucket No 1 (D-Sub)	DISTRIBUTION	Discretionary	open		Jul-2021	Final Engineering		193,582											
	C056343	Southeast Substation	TRANSMISSION (Non-ISR)	N/A - transmission	open		Sep-2021			252,098											
	C061766	Valley Sub P11 Line Protection Upgr	TRANSMISSION (Non-ISR)	N/A - transmission	open		Jun-2020			141,839											
<b>USSC-15-109 v2 Total</b>										<b>3,818,675</b>	<b>38,182,000</b>					<b>74,380</b>		<b>173,107</b>	<b>2,312,503</b>	<b>2,559,990</b>	
USSC-15-161C	C049981	Nsnvll 127W41 New Customer Load	DISTRIBUTION	Non-Discretionary	Closed	8/2/2018				1,985,903				<b>4,000</b>	<b>108,000</b>	<b>1,583,893</b>				<b>1,695,893</b>	
<b>USSC-15-161C Total</b>										<b>1,985,903</b>	<b>1,986,000</b>			<b>4,000</b>	<b>108,000</b>	<b>1,583,893</b>				<b>1,695,893</b>	
USSC-15-194C	CD00533	EMS Expansion - Lincoln Ave 72	DISTRIBUTION	Discretionary	Closed	4/20/2016				1,067,016		<b>4,515</b>	<b>206,115</b>	<b>154,000</b>	<b>531,000</b>	<b>162,413</b>				<b>1,058,043</b>	
<b>USSC-15-194C Total</b>										<b>1,067,016</b>	<b>1,067,000</b>	<b>4,515</b>	<b>206,115</b>	<b>154,000</b>	<b>531,000</b>	<b>162,413</b>				<b>1,058,043</b>	
USSC-15-199 v3	C051203	LNG Plant Svc Terminal Rd Prv DLine	DISTRIBUTION	Non-Discretionary	open		Nov-2019	Construction		1,628,523						<b>41,558</b>	<b>764,786</b>	<b>424,964</b>	<b>224,519</b>	<b>1,455,827</b>	
	C051204	LNG Plant Svc Terminal Rd Prv DSub	DISTRIBUTION	Non-Discretionary	closed		Dec-2017			1,159,223						<b>16,611</b>	<b>1,452,266</b>	<b>(471,434)</b>	<b>2,929</b>	<b>1,000,373</b>	
<b>USSC-15-199 v3 Total</b>										<b>2,787,746</b>	<b>5,589,000</b>					<b>58,169</b>	<b>2,217,052</b>	<b>(46,469)</b>	<b>227,448</b>	<b>2,456,200</b>	
USSC-15-238 v2	C053268	Pawtucket No 1 Bus Sect 73 Relief	DISTRIBUTION	Discretionary	open		Jan-2020	Close Out		1,548,349				<b>1,000</b>	<b>747,000</b>	<b>529,331</b>	<b>(25,602)</b>			<b>1,251,729</b>	
<b>USSC-15-238 v2 Total</b>										<b>1,548,349</b>	<b>1,750,000</b>			<b>1,000</b>	<b>747,000</b>	<b>529,331</b>	<b>(25,602)</b>			<b>1,251,729</b>	
USSC-15-277	C068686	Franklin Sq Breaker Replacements	DISTRIBUTION	Discretionary	open		Dec-2019	Close Out		2,101,934							<b>408,100</b>	<b>1,947,119</b>	<b>(264,799)</b>	<b>2,090,421</b>	
<b>USSC-15-277 Total</b>										<b>2,101,934</b>	<b>2,200,000</b>						<b>408,100</b>	<b>1,947,119</b>	<b>(264,799)</b>	<b>2,090,421</b>	
USSC-15-290 v2	C055844	W Cranston Transformer #2 Replaceme	DISTRIBUTION	Discretionary	open		Nov-2019	Construction		3,135,580						<b>1,643</b>	<b>128,624</b>	<b>474,180</b>	<b>2,458,940</b>	<b>3,063,388</b>	
	C058300	Tx Asset Rplmt Blanket Line	DISTRIBUTION	Discretionary	open																
<b>USSC-15-290 v2 Total</b>										<b>3,135,580</b>	<b>3,950,000</b>					<b>1,643</b>	<b>128,624</b>	<b>474,180</b>	<b>2,458,940</b>	<b>3,063,388</b>	
USSC-16-009C	C070466	Valley #102 22T Replacement D/F	DISTRIBUTION	Non-Discretionary	Closed	9/19/2017				1,966,661						<b>226,353</b>	<b>1,734,383</b>	<b>2,869</b>		<b>1,963,606</b>	
<b>USSC-16-009C Total</b>										<b>1,966,661</b>	<b>1,967,000</b>					<b>226,353</b>	<b>1,734,383</b>	<b>2,869</b>		<b>1,963,606</b>	
USSC-16-027C	C055357	RI UG Cable Repl Program - Fdr 1111	DISTRIBUTION	Discretionary	Closed	9/13/2016				1,223,387						<b>1,124,860</b>	<b>(14,005)</b>			<b>1,110,854</b>	
<b>USSC-16-027C Total</b>										<b>1,223,387</b>	<b>1,224,000</b>					<b>1,124,860</b>	<b>(14,005)</b>			<b>1,110,854</b>	
USSC-16-147C	C050006	Hyde Ave MC Retirement (D-Line)	DISTRIBUTION	Discretionary	Closed	2/22/2018				3,011,164			<b>4,000</b>	<b>91,000</b>	<b>1,108,662</b>	<b>640,359</b>	<b>373,884</b>			<b>2,217,905</b>	
	C051271	Hyde Ave MC Retirement (D-Sub)	DISTRIBUTION	Discretionary	Closed	8/14/2018				102,436								<b>5,511</b>	<b>(5,582)</b>	<b>(71)</b>	
<b>USSC-16-147C Total</b>										<b>3,113,600</b>	<b>3,114,000</b>		<b>4,000</b>	<b>91,000</b>	<b>1,108,662</b>	<b>640,359</b>	<b>379,395</b>	<b>(5,582)</b>		<b>2,217,834</b>	
USSC-16-148 v2	C050017	Daggett Ave MC Retirement (D-Line)	DISTRIBUTION	Discretionary	open		Jan-2020	Close Out		2,627,291				<b>5,000</b>	<b>84,000</b>	<b>924,087</b>	<b>761,635</b>	<b>216,061</b>		<b>1,990,783</b>	
	C051274	Daggett Ave MC Retirement (D-Sub)	DISTRIBUTION	Discretionary	open		Nov-2017	Close Out		92,280								<b>10,983</b>	<b>(48)</b>	<b>10,935</b>	
<b>USSC-16-148 v2 Total</b>										<b>2,719,571</b>	<b>2,555,000</b>			<b>5,000</b>	<b>84,000</b>	<b>924,087</b>	<b>761,635</b>	<b>227,044</b>	<b>(48)</b>	<b>2,001,718</b>	
USSC-16-150C	C047377	IRURD Wethersfield Commons	DISTRIBUTION	Discretionary	Closed	11/28/2017				1,227,151				<b>17,000</b>	<b>136,000</b>	<b>714,082</b>	<b>235,155</b>			<b>1,102,237</b>	
<b>USSC-16-150C Total</b>										<b>1,227,151</b>	<b>1,228,000</b>			<b>17,000</b>	<b>136,000</b>	<b>714,082</b>	<b>235,155</b>			<b>1,102,237</b>	
USSC-16-156	C058320	Flood Contingency Plan NEC - T	TRANSMISSION (Non-ISR)	N/A - transmission	Closed	5/24/2018				24,920											
	C059882	Flood Contingency Plan NECO - D	DISTRIBUTION	Discretionary	open		Jan-2020	Construction		898,515							<b>297,958</b>	<b>320,902</b>	<b>200,699</b>	<b>819,559</b>	
<b>USSC-16-156 Total</b>										<b>923,435</b>	<b>3,694,000</b>						<b>297,958</b>	<b>320,902</b>	<b>200,699</b>	<b>819,559</b>	
USSC-16-157C	C049910	Southeast Sub MC Retirement (DLine)	DISTRIBUTION	Discretionary	Closed	8/2/2018				1,543,050				<b>21,000</b>	<b>89,000</b>	<b>60,192</b>	<b>613,924</b>	<b>205,986</b>		<b>990,101</b>	
	C051272	Southeast 60 Metaclad - Sub Retirem	DISTRIBUTION	Discretionary	Closed	4/2/2019				104,202								<b>17,218</b>	<b>(17,218)</b>	<b>(0)</b>	
<b>USSC-16-157C Total</b>										<b>1,647,252</b>	<b>1,647,000</b>			<b>21,000</b>	<b>89,000</b>	<b>60,192</b>	<b>613,924</b>	<b>223,204</b>	<b>(17,218)</b>	<b>990,101</b>	
USSC-16-212C	C046400	Capital Ctr Fdrs - Elim T-body join	DISTRIBUTION	Discretionary	Closed	6/20/2016				1,014,165			<b>496,000</b>	<b>227,000</b>	<b>111,900</b>					<b>834,900</b>	
<b>USSC-16-212C Total</b>										<b>1,014,165</b>	<b>1,015,000</b>		<b>496,000</b>	<b>227,000</b>	<b>111,900</b>					<b>834,900</b>	
USSC-16-215C	C036397	Clarkson - new 13F10 feeder (line)	DISTRIBUTION	Discretionary	Closed	5/25/2016				1,008,150			<b>7,389</b>	<b>94,000</b>	<b>460,000</b>	<b>387,142</b>				<b>948,531</b>	
<b>USSC-16-215C Total</b>										<b>1,008,150</b>	<b>1,009,000</b>		<b>7,389</b>	<b>94,000</b>	<b>460,000</b>	<b>387,142</b>				<b>948,531</b>	
USSC-16-305	C051205	Dyer St replace indoor subst D-SUB	DISTRIBUTION	Discretionary	open		May-2022	Develop & Sanction		1,082,334				<b>94,000</b>	<b>460,000</b>	<b>387,142</b>				<b>1,073,158</b>	
	C051211	Dyer St replace indoor subst D-LINE	DISTRIBUTION	Discretionary	open		May-2019	Develop & Sanction		204,070							<b>140,245</b>	<b>197,908</b>	<b>735,005</b>	<b>110,036</b>	
<b>USSC-16-305 Total</b>										<b>1,286,404</b>	<b>14,154,000</b>						<b>140,245</b>	<b>286,932</b>	<b>845,041</b>	<b>1,272,219</b>	
USSC-16-319 v3	C075571	RI VVO Langworthy Corner 86, Dist	DISTRIBUTION	Discretionary	open		May-2018	Close Out		271,351								<b>140,245</b>	<b>286,932</b>	<b>845,041</b>	
	C075573	RI VVO Langworthy Corner 86, Sub	DISTRIBUTION	Discretionary	open		Dec-2017	Close Out		46,547										<b>242,469</b>	
	C076365	RI VVO/CVR Tiogue Ave 100, Substat	DISTRIBUTION	Discretionary	open		Dec-2017	Close Out		72,150										<b>46,384</b>	
	C076367	RI VVO/CVR Lincoln Ave 72, Substat	DISTRIBUTION	Discretionary	in service		Nov-2017	Close Out		323,570										<b>72,150</b>	
	C077200	RI VVO/CVR Tiogue Ave 100	DISTRIBUTION	Discretionary	open		May-2018	Close Out		254,459										<b>322,409</b>	
	C077201	RI VVO/CVR Lincoln Ave 72	DISTRIBUTION	Discretionary	in service		Oct-2019	Close Out		906,678										<b>204,480</b>	
<b>USSC-16-319 v3 Total</b>										<b>1,874,755</b>	<b>1,962,000</b>								<b>1,308,155</b>	<b>364,044</b>	<b>1,672,198</b>
USSC-16-339C	C058287	IRURD Ferncliffe Farms URD	DISTRIBUTION	Discretionary	Closed	11/28/2017				1,033,515							<b>959,465</b>	<b>3,656</b>		<b>963,121</b>	
<b>USSC-16-339C Total</b>										<b>1,033,515</b>	<b>1,034,000</b>						<b>959,465</b>	<b>3,656</b>		<b>963,121</b>	
USSC-17-212	C032258	ACNW Vlt47 Full Rebuild Prov	DISTRIBUTION	Discretionary	open		Sep-2019	Close Out		1,527,081			<b>17,424</b>	<b>23,000</b>	<b>117,000</b>	<b>12,280</b>	<b>482,992</b>	<b>239,992</b>	<b>358</b>	<b>893,046</b>	
<b>USSC-17-212 Total</b>										<b>1,527,081</b>	<b>1,497,000</b>		<b>17,424</b>	<b>23,000</b>	<b>117,000</b>	<b>12,280</b>	<b>482,992</b>	<b>239,992</b>	<b>358</b>	<b>893,046</b>	
USSC-17-249	C055367	RI UG Cable Repl Program Fdr 54K21	DISTRIBUTION	Discretionary	open		Jan-2020	Final Engineering		1,021,303						<b>260,000</b>	<b>438,603</b>	<b>82,530</b>	<b>1,482</b>	<b>782,615</b>	
<b>USSC-17-249 Total</b>										<b>1,021,303</b>	<b>1,200,000</b>					<b>260,000</b>	<b>438,603</b>	<b>82,530</b>	<		

USSC #	FP Proj No	Proj Description 2 (for pivot table)	SEGMENT (Distribution or Transmission)*	Discretionary/Non-Discretionary	Funding Project Status	If Closed, funding project close date	Expected/Actual Financial Completion Date	If Distribution Open, Status as of March 2019	If Open, Current Tolerance %	Sum of TTD Spend (through FY2019)	Sum of Current Project Approved Amount (Cap+Removal+Opex)**	FY2012 Actual ISR Capital	FY2013 Actual ISR Capital	FY2014 Actual ISR Capital	FY2015 Actual ISR Capital	FY2016 Actual ISR Capital	FY2017 Actual ISR Capital	FY2018 Actual ISR Capital	FY2019 Actual ISR Capital	TOTAL Actual ISR Capital (FY2012-FY2019)
<b>USSC-18-258 Total</b>									+/-10%	1,344,288	1,400,000	-	-	-	-	3,000	5,985	758,543	355,823	1,123,350
USSC-18-270	C047375	IRURD Mystery Farms Estates	DISTRIBUTION	Discretionary	open		Jan-2020	Close Out		1,663,231		-	-	-	33,000	12,350	4,642	407,790	1,196,961	1,654,743
<b>USSC-18-270 Total</b>									+/-10%	1,663,231	1,900,000	-	-	-	33,000	12,350	4,642	407,790	1,196,961	1,654,743
USSC-18-282	C046697	Hope Substation Flood Restoration	DISTRIBUTION	Discretionary	open		Jul-2020	Construction		581,860		-	-	12,000	42,000	159,897	91,241	18,979	258,006	582,123
<b>USSC-18-282 Total</b>									+/-10%	581,860	1,541,000	-	-	12,000	42,000	159,897	91,241	18,979	258,006	582,123
USSC-18-303	C079116	Uni Solar 32MW West Greenwich ri	DISTRIBUTION	Non-Discretionary	open		Mar-2020	Final Engineering		1,665,849		-	-	-	-	-	-	17,522	1,557,447	1,574,969
	C080679	23725379-D-UnvSolar-WGreenwh-Vict	DISTRIBUTION	Non-Discretionary	open		Mar-2020	Construction		(7,035,058)		-	-	-	-	-	-	-	(6,101,239)	(6,101,239)
<b>USSC-18-303 Total</b>									+/-10%	(5,369,209)	5,495,000	-	-	-	-	-	-	17,522	(4,543,792)	(4,526,270)
USSC-18-310	C081110	Westerly T4 Failure	DISTRIBUTION	Non-Discretionary	open		Aug-2020	Develop & Sanction		791,892		-	-	-	-	-	-	-	-	791,892
<b>USSC-18-310 Total</b>									+/-10%	791,892	1,123,000	-	-	-	-	-	-	-	-	791,892
USSC-18-331	C081006	Franklin Sq Breaker Replacement	DISTRIBUTION	Discretionary	open		Jul-2023	Construction		1,143,285		-	-	-	-	-	-	-	-	1,143,285
<b>USSC-18-331 Total</b>									+/-10%	1,143,285	4,550,000	-	-	-	-	-	-	-	-	1,143,285
USSC-19-012 v2	CD01097	Warwick Mall Substation Flood Resto	DISTRIBUTION	Discretionary	open		Oct-2019	Construction		1,259,266		-	4,104	8,000	215,000	109,785	16,057	34,106	859,435	1,246,486
<b>USSC-19-012 v2 Total</b>									+/-10%	1,259,266	1,678,000	-	4,104	8,000	215,000	109,785	16,057	34,106	859,435	1,246,486
USSC-19-300	C047398	IRURD Wionkheige	DISTRIBUTION	Discretionary	open		Jun-2020	Construction		769,514		-	-	-	70,000	17,401	-	1,153	679,964	768,518
<b>USSC-19-300 Total</b>									+/-10%	769,514	2,200,000	-	-	-	70,000	17,401	-	1,153	679,964	768,518

\* Transmission projects are included where the Delegation of Authority (DOA) includes a Transmission portion of the approved sanction. Any Transmission project is Non-ISR related.

\*\* Projects between \$500,000 and \$1,000,000 have DOA at the individual funding project level. Projects \$1,000,000 and greater may be combined for DOA.

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4857  
In Re: Adoption of Performance Incentives  
Pursuant to R.I. Gen. Laws § 39-1-27.7.1(e)(3)  
To Apply to the Electric Infrastructure, Safety, and Reliability Plan  
Responses to the Commission's Second Set of Data Requests  
Issued on September 24, 2019

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PUC 2-3

Request:

For each ISR project (since inception) listed in response to PUC 2-2, please indicate the total project cost and completion date. If the project was delayed or accelerated, please explain why.

Response:

Attachment PUC 2-2 has total project cost and actual or estimated completion date. The Company does not automatically retain documentation related to whether projects were delayed or accelerated, and an explanation as to why, in the project planning system. To determine if a project was delayed or accelerated, the Company would need to perform a manual review of each project to review the available information. This would be a time-consuming and manual exercise, which was not possible to perform during the timeframe for responding to this data request.

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4857  
In Re: Adoption of Performance Incentives  
Pursuant to R.I. Gen. Laws § 39-1-27.7.1(e)(3)  
To Apply to the Electric Infrastructure, Safety, and Reliability Plan  
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PUC 2-4

Request:

For each ISR project listed in response to PUC 2-2 and PUC 2-3, please indicate if spending was included in the revenue requirement but no expenditures were made in the first year of inclusion. Please explain.

Response:

Generally, the revenue requirement for the capital component of the ISR is based on plant-in-service.

Plant can only be put into service after expenditures are made. Therefore, there would be no circumstances when Plant-In-Service could occur before spending occurs. If there were an instance where a project was forecasted to be placed into service in an ISR Plan filing and included in the ISR Plan revenue requirement, however no expenditures were actually made in that project's first year of inclusion in the Plan, the forecasted plant-in-service associated with that project would be excluded from the subsequent annual reconciliation filing, as those dollars would not have been reflected in actual plant-in-service on the Company's books, and the revenue requirement on that investment would be returned to customers through the CapEx reconciling factor.

The Narragansett Electric Company  
d/b/a National Grid  
RIPUC Docket No. 4857  
In Re: Adoption of Performance Incentives  
Pursuant to R.I. Gen. Laws § 39-1-27.7.1(e)(3)  
To Apply to the Electric Infrastructure, Safety, and Reliability Plan  
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Issued on September 24, 2019

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PUC 2-5

Request:

For each ISR project listed in response to PUC 2-2, please provide the cost estimates at each stage of project development and the final completion cost results.

Response:

Attachment PUC 2-2 has final completion cost results for all closed projects and total to date costs for open projects. The stages of project estimation described in PUC 2-1 pertain to Complex Projects. All Complex projects do not go through each estimating stage. Documentation related to estimates at each stage of project development for Complex Projects would have to be manually derived, where available, from the project planning system. This would be a time-consuming and manual exercise, which was not possible to perform during the timeframe for responding to this data request.