STATE OF NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

DOCKET NO. DE 19-057

IN THE MATTER OF: PUBLIC SERVICE COMPANY OF NEW

HAMPSHIRE D/B/A EVERSOURCE ENERGY

Notice of Intent to File Rate Schedules

REDACTED

DIRECT TESTIMONY

OF

Jay E. Dudley Utility Analyst IV NHPUC

December 20, 2019

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I. INTRODUCTION AND QUALIFICATIONS

- 2 Q. Mr. Dudley, please state your full name and business address.
- 3 A. My name is Jay E. Dudley. My business address is 21 South Fruit Street, Suite 10,
- 4 Concord, NH 03301.

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- 6 Q. Please state your employer and your position.
- 7 A. I am employed by the New Hampshire Public Utilities Commission ("Commission") as a
- 8 Utility Analyst for the Electric Division.

- 10 Q. Please describe your professional background.
- 11 A. I started at the Commission in June of 2015 as a Utility Analyst in the Electric Division.
- Before joining the Commission, I was employed at the Vermont Public Service Board
- 13 (now known as the Vermont Public Utilities Commission, "VT-PUC") for seven years as
- a Utility Analyst and Hearing Officer. In that position I was primarily responsible for the
- analysis of financing and accounting order requests filed by all Vermont utilities,
- including review of auditor's reports, financial projections, and securities analysis. As
- 17 Hearing Officer, I managed and adjudicated cases involving a broad range of utility-
- 18 related issues including rate investigations, construction projects, energy efficiency,
- 19 consumer complaints, utility finance, condemnations, and telecommunications. Prior to
- working for the VT-PUC, I worked in the commercial banking sector in Vermont for
- 21 twenty years where I held various management and administrative positions. My most

recent role was as Vice President and Chief Credit Officer for Lyndon Bank in Lyndonville, Vermont. In that position I was responsible for directing and administering the analysis and credit risk management of the bank's loan portfolio, including internal loan review, regulatory compliance, and audit. In performing those responsibilities, I also provided oversight for the commercial and retail lending functions with detailed financial analysis of large corporate relationships, critique of loan proposals and loan structuring, consultation on business development efforts, and advised the Board of Directors on loan approvals and loan portfolio quality. Prior to my role as Chief Credit Officer, I held the position of Vice President of Loan Administration. In this position, I was responsible for directing and administering the underwriting, processing, and funding of all commercial, consumer, and residential mortgage loans. My responsibilities also included the management of loan processing and loan origination staff and partnering with the Compliance Officer to monitor and ensure compliance with all banking laws, regulations, and the bank's lending policy. Previous to my position as Loan Administration Vice President, I held the position of Assistant Vice President of Commercial Loan Administration with Passumpsic Savings Bank in St. Johnsbury, Vermont. In that role, I was responsible for supervising loan administration and loan operations within the commercial lending division of the bank.

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Q. Please describe your educational background?

A. I received my Bachelor of Arts degree in Political Science from St. Michael's College.

Throughout my career in banking, I took advantage of numerous Continuing Professional

Education (CPE) opportunities involving college level coursework in the areas of

accounting, financial analysis, real estate and banking law, economics, and regulatory compliance. Also, during my tenure with the VT-PUC I took advantage of various CPE opportunities including the Regulatory Studies Program at Michigan State University (sponsored by the National Association of Regulatory Utility Commissioners "NARUC"), Utility Finance & Accounting for Financial Professionals at the Financial Accounting 6 Institute, and Scott Hempling seminars on Electric Utility Law.

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Q. Have you previously testified before the Commission?

9 A. Yes. I previously submitted Staff testimony to the Commission in Docket No. DE 14-10 238, PSNH Generation Assets; Docket No. DE 15-137, Energy Efficiency Resource 11 Standard; Docket No. DE 16-383, Liberty Utilities Request for Change in Rates; Docket 12 No. DE 17-136, 2018-2020 NH Energy Efficiency Plan; and Docket No. DE 19-064, 13 Liberty Utilities Request for Change in Rates.

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II. **SUMMARY OF TESTIMONY**

16 Q. Please describe the purpose of your testimony today.

> The purpose of my testimony is to provide Staff's recommendation involving Public Service Company of New Hampshire d/b/a Eversource Energy ("Eversource" or the "Company" or "PSNH") request filed on March 22, 2019, to implement a permanent distribution rate increase to be effective on and after July 1, 2019, as it relates to capital investments and additions to Eversource's rate base from 2013 to 2018. Based on the reports of the Company filed with the Commission, and Staff's extensive review of the Company's capital expenditures, Staff believes that a number of adjustments are

1 warranted to the Eversource permanent rate proposal. Staff recommends that the 2 Commission make the following modifications: 3 4 • Eversource's proposed revenue requirement: \$69,254,451 5 • Staff's reduction to revenue requirement: (\$44,875,910) Adjusted revenue requirement 6 \$24,378,542 7 • Eversource's proposed rate base: \$1,215,689,670 8 • Staff's reduction to rate base: (\$62,999,792) 9 \$1,152,689,878 Adjusted rate base: 10 In addition, Staff recommends denial of Eversource's proposed step increase of 11 approximately \$15 million for 2019, and all subsequent step increases, and the Company's 12 proposal for a Grid Transformation and Enablement Program ("GTEP"). 13 If the Commission allows a 2019 step increase, then Staff recommends that the Commission 14 open a separate docket for the purposes of investigating Eversource's capital budgeting and 15 planning process (after this case concludes), including a prudence review of individual 16 capital projects that comprise Eversource's 2019 step increase request. Further, Staff 17 recommends that the Commission consider hiring a consultant to perform a business 18 processes audit concerning the 2019 capital investments, and otherwise assist Staff in that 19 investigation. 20 21 III. DISCUSSION OF PERMANENT RATE REQUEST AND STAFF'S REVIEW 22 O. What is the statutory foundation for a request for permanent rates? 23 A. Permanent rates are specifically allowed pursuant to RSA 378:28 which reads as follows: 24

378:28 Permanent Rates. – So far as possible, the provisions of RSA 378:27 shall be applied by the commission in fixing and determining permanent rates, as well as temporary rates. The commission shall not include in permanent rates any return on any plant, equipment, or capital improvement which has not first been found by the commission to be prudent, used, and useful. Nothing contained in this section shall preclude the commission from receiving and considering any evidence which may be pertinent and material to the determination of a just and reasonable rate base and a just and reasonable rate of return thereon.

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Following the completion of the full proceeding, a "permanent rate" level is determined, and the difference between the temporary rate level and the permanent rate level is then reconciled through either collection from or refund to customers.

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14 Q. Please summarize Eversource's request for the permanent increase in rates.

According to Eversource, the Company has been unable to earn its authorized rate of 15 A. 16 return under existing rates because of a deficiency in distribution revenue of \$69.9 million, on a pro forma basis, for test year 2018. As a result, Eversource's return on 17 18 equity for 2018, related to the distribution portion of the business, declined to 7.72% as 19 compared with the Company's authorized return of 9.67%. Eversource is seeking recovery of the \$69.9 million² revenue deficiency in permanent rates; however, to allow 20 21 the Company to earn at least a portion of its authorized return until the Commission 22 makes its final determination on permanent rates, the Company proposed a temporary rate increase of approximately 2.7%, or \$28.3 million in additional distribution revenue.³ 23 24 After hearing and review, the Commission approved a temporary rate increase of \$28.3

¹ Chung/Dixon Testimony on Permanent Rates at 8 (Bates 69).

² On November 4, 2019, Eversource adjusted this amount to \$69.2 million. *See* Eversource Energy Updated Revenue Requirement dated November 4, 2019.

³ Chung/Dixon Testimony on Temporary Rates at 5 (Bates II 007).

million (the "June Order").⁴ In addition, Eversource has proposed a post-test year step increase intended to recover an annual revenue deficiency of approximately \$15 million based on approximately \$128 million in projected capital additions from January 1 through December 31, 2019. The Company is requesting that the Commission make the step increase effective at the time that permanent rates become effective following the conclusion of this proceeding.

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Q. As part of this rate case, did Commission Audit Staff complete a financial audit of

Eversource's books and records?

No. The Commission's Audit Staff is in the process of completing its audit and has not yet issued a final audit report. My understanding from discussions with the Commission's Director of Audit is that the final audit report will be issued sometime after January 1, 2020 (after the Company has had an opportunity to respond to draft audit findings). Staff plans to reflect the results of the final audit report in an updated revenue requirement calculation to be completed in advance of the technical sessions/ settlement conference scheduled for in mid-February.

- Q. Is Staff proposing a decrease to Eversource's revenue requirements in this proceeding?
- Yes. As noted in Staff's summary of adjustments above, please refer to the testimony of
 Ms. Donna Mullinax in which she provides detailed support for Staff's recommended
 rate increase of \$24,378,542 which is \$44,875,910 less than Eversource's proposed

⁴ Order No. 26,265, Docket No. DE 19-057, dated June 27, 2019.

1 revenue requirement. My testimony below addresses adjustments to the Company's rate

2 base.

- 4 Q. Is Staff convinced that its recommendations for disallowances in this case will provide just and reasonable results?
- 6 Α. Yes. A key element of the just and reasonable standard, coupled with the statutory 7 requirement that a utility's capital investments must be found to have been prudently 8 incurred, is that the Commission must weigh the conflicting interests of both the utility and 9 the ratepayer before finding the proposed rate is just and reasonable. In doing so, the 10 Commission must measure what the public must reasonably pay against what the utility is 11 reasonably entitled to receive. In the present docket, Staff's analysis indicates that 12 Eversource overstated its revenue requirement by \$44.875 million, and to allow such a 13 requirement into rates would be unjust for Eversource ratepayers. In addition, the 14 Commission's expectation that a utility's investments are prudent, as required by RSA 15 378:28, also rests on the just and reasonable standard such that imprudent expenditures are 16 inconsistent with the standard and should be disallowed. As a result, Staff has found that 17 approximately \$63 million in capital investments and related cost overruns, and 18 approximately \$128 million in current capital investments for 2019, were not adequately 19 explained or justified by the Company and that ratepayers should not be required to pay those 20 costs.
- 21 IV. REVIEW OF CAPITAL ADDITIONS AND COST OVER RUNS FOR 2015 22 THROUGH AND 2018
- Q. What explanation does the Company provide for the claimed downward pressure on its revenues and rates of return?

A. Eversource testifies that one of the primary drivers behind the need for an increase in rates is the amount of capital investments made by the Company since its last rate case in 2009. During that period, Eversource invested approximately \$800 million in capital additions and improvements.⁵

O. Why are Eversource's capital investments under Staff's review in this rate case?

First, regulated electric utilities are some of the most capital-intensive entities that exist given the substantial amount of capital investment that is required to build and maintain reliable infrastructure. As a result, the significant and ongoing nature of those investments are frequently the primary causes for utilities to request periodic increases in However, unlike unregulated competitive firms, regulated utilities cannot just pursue any investment strategies available that maximize shareholder value. Regulators must find that such expenditures are prudent, just and reasonable, and used and useful. As cited above, one of Eversource's primary justifications for the current rate increase request is the downward pressure that additional capital expenditures have placed on the Company's revenues and rates of return. Second, during the course of Staff 's review of capital additions in this rate case, Staff found disparities between budgeted amounts and actual expenditures reported by the Company to be both numerous and significant in size, raising questions as to whether the Company was sufficiently diligent in controlling those costs. Given the number of variances, which in some instances increased originally budgeted costs several times over, and given that Eversource provided little in the way of specific information as to root causes or how the Company decided that those overages were economic, Staff was unable to conclude that Eversource took appropriate measures to control costs or that

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⁵ Testimony of Erica L. Menard at 19 (Bates 938).

Eversource's decision-making process was reasonable or in the interest of ratepayers. As a result, Staff has recommended a disallowance of \$63 million in some plant investments and cost overruns. Those disallowances are discussed and outlined below.

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Q. Please briefly summarize the capital budgeting process at Eversource.

6 A. As described in Ms. Menard's direct testimony, up until 2015 Eversource utilized its 7 "Project Authorization Policy" framework, referred to as AP-2002, under which project 8 review, approval, and funding were conducted through the Capital Budget Review Committee ("CBRC").⁶ At the end of each year, Engineering would propose a budget of 9 10 known projects with proposed funding levels over the next five years. The budget was 11 then reviewed and approved at the CBRC and subsequently presented at higher level 12 budget meetings resulting in its eventual approval at the board level. Once approved, the 13 budget was then used by the CBRC during the course of the year to monitor capital 14 spending versus the financial targets established in the capital operating plan. Any 15 subsequent project changes or variances would be assessed and approved by the CBRC.⁷ 16 As of 2016, Eversource performs capital planning and budgeting under a new Project Authorization Policy referred to as "APS-1." Under this policy, the project 17 18 authorization process starts with a mid-year meeting of the business planning group. The 19 planning group reviews potential capital spending over the upcoming five-year period 20 and develops a strategic plan for presentation to senior management for approval. 21 Projects are authorized by the Company's management in accordance with the 22 "Delegation of Authority" on the basis of a Project Authorization Form ("PAF"). A PAF

⁶ Id. at 5 (Bates 924) and Attachment ELM-4.

⁷ *Id.* at 10 (Bates 929).

is required where a specific project estimate is expected to exceed the threshold outlined in the policy. As part of the annual budget process, each operating area submits a budget encompassing the requests for project authorization. The specific capital spending requests made by the operating areas are input into the five-year planning models and the results are compared to financial and performance targets. Annual projects and programs are based on and funded using historical spending levels. The strategic plan is then presented to senior management for approval, and once approved, it becomes the basis for the annual planning process and the budget. During the annual planning process, projects are reviewed and modified as needed and become the basis for the annual budget. Since PAFs are submitted in advance, they are generally prepared and authorized on the basis of conceptual estimates. Once projects are ready for construction with refined project cost estimates, projects are presented to the Project Authorization Committee for approval. The Project Authorization Committee meets at least monthly to review projects from an engineering, scheduling and cost perspective as well as reviewing any projects that require supplemental funding.⁹

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- Q. What internal documentation from Eversource did Staff examine as part of its review?
- As part of Staff Data Requests 12-44 and 12-45 (Attachments JED-1 and JED-2 to my testimony), Staff sought to obtain and review the following documents involving a specific sampling of projects from 2015 through 2018:
 - a. Pre-2015 policy (AP-2002):

⁸ *Id.* at Attachment ELM-5.

⁹ *Id.* at 6 -7 (Bates 925 – 926) and 11 – 13 (Bates 930 – 932).

1		Capital work orders
2		Engineering work requests
3		Work order approvals
4		Project estimate analysis reports
5		Project revision forms
6		CBRC approval forms and revision sheets
7		• The reports and the analysis of the monthly Energy Delivery project
8		review meetings.
9		b. Post 2015 policy (APS-1):
10		• PAF's
11		Work orders
12		Supplemental request forms
13		• Project reviews performed by the Financial Planning and Analysis
14		Group
15		• Reviews and approvals of the Project Authorization Committee.
16		• Project reviews of the Eversource Enterprise Risk Management
17		group.
18		
19	Q.	Did Eversource provide all of the internal documentation requested?
20	A.	No. As discussed below, not all of the requested documentation was submitted or made
21		available by Eversource. In addition, Staff's review of some projects was hampered by
22		the Company's delay and intermittent submission of additional follow-up responses to
23		requests made at the October 28 and 29 Technical Sessions.

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2 Q. What issues did Staff discover in its review of Eversource's capital budgeting and

3 **planning?**

Staff found that the cost estimates contained in the capital budgets were consistently inaccurate, especially for large complex projects, and that the capital planning and budgeting process itself appears to be ad hoc with project managers devoting significant time compensating for inaccurate estimates and poor designs. Eversource management appears to provide only cursory oversight and monitoring as projects progress to completion. In addition, project documentation such as Project Authorization Forms and Supplemental Request Forms provide little in the way of detailed analysis or reasonable financial justifications for a project. Staff also found little evidence that Eversource considered or utilized basic capital budgeting techniques such as the identification of alternatives and dependencies among alternatives, least cost planning, or risk identification for any of the over-budget projects reviewed in the sample below. It also appears from a review of some of Eversource's monthly committee reports that the oversight committees impose little in the way of restrictions or cost controls on the level of capital expenditures undertaken by the Company during the course of the year. In addition, as noted below, most of the over-budget projects reviewed by Staff were not specifically tracked by these reports.

20 V. FINDINGS: REVIEW OF CAPITAL PROJECTS SAMPLE AND COST OVER
21 RUNS FOR 2015 TO 2018

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Q. What specific projects did Staff include in its examination?

Staff compiled sample lists involving Staff Data Requests 12-044 and 12-045 (attached as Attachments JED-1 and JED-2) based on projects with significant cost over runs for 2015 (16 projects), 2016 (14 projects), 2017 (12 projects), and 2018 (14 projects), from a master list of plant additions provided by Eversource in Ms. Menard's testimony as Attachment ELM-3. The sampling was later refined based on Eversource's responses to follow-up data requests from the October 29, 2019, technical session. All of the projects in the samples were reviewed by Staff, but for the purposes of efficiency, two projects from the sample years 2018 and 2017 will be discussed here as representative of the Company's deficiencies in the areas of capital budgeting, planning, documentation, and execution. These projects are represented in the tables below:

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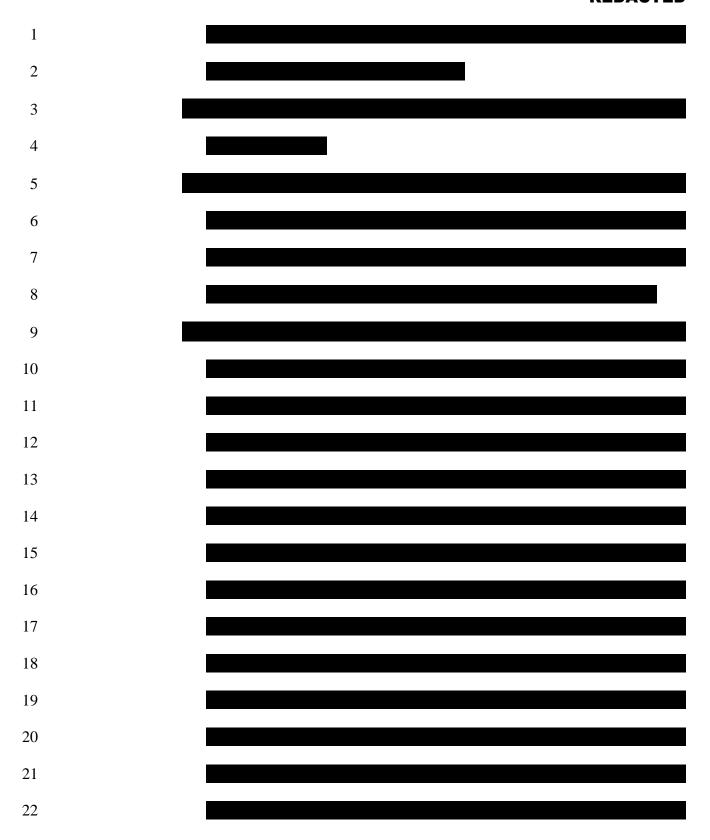
Table 1: 2018 Sample Projects

13 14	Project No.	<u>Description</u>	Budget	Revised	<u>Actual</u>
15 16 17	A14W02 A18VRP	Daniel Sub. Station (Webster) Viper Replacement Project	\$6,959,535 \$895,000	\$15,352,420 \$5,997,114	\$19,138,965 \$6,003,793
18		<u>Table 2: 2017 S</u>	Sample Projects		

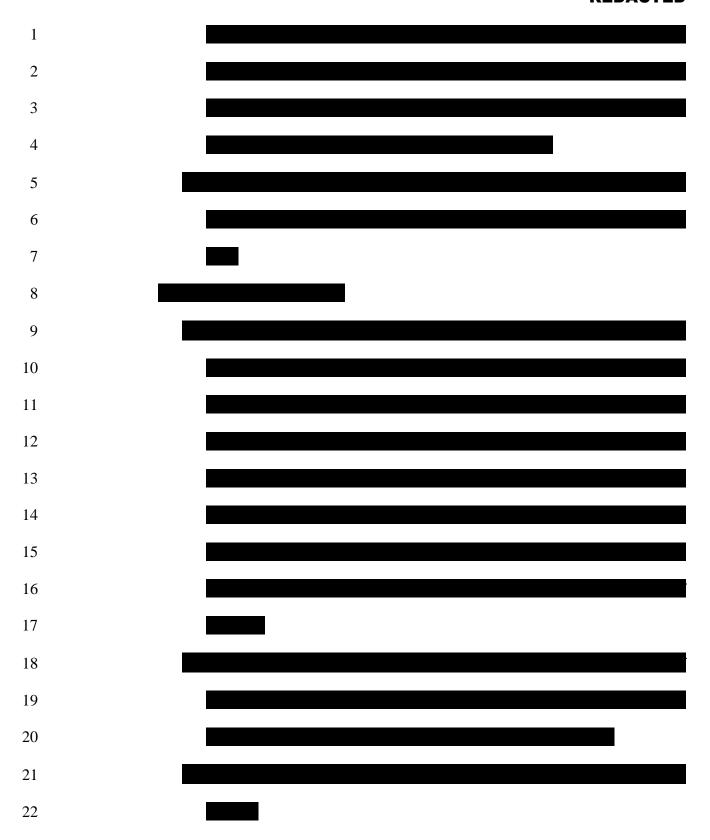
19	Project No.	Description	Budget	Revised	<u>Actual</u>
20	A14S08	Garvins Substation Rebuild	\$3,449,000	\$4,368,444	\$5,479,461
21	A14N21	Berlin Eastside 34.5 kV Line Brkr	\$1.071.000	\$2,838,000	\$3,709,636

All of the internal documentation obtained from Eversource was reviewed by Staff in connection with each of these projects, as well as the projects included in the sample. It is also important to note that hundreds of projects have been added to the Company's rate base since its last rate case making it impossible for Staff, given limited time and

1		resources, to determine the reasonableness of many of those investments. As a result,
2		Eversource's capital projects for 2013 and 2014 were not included in this review.
3		
4	Q.	Please provide the results of Staff's review of those projects.
5	A.	Below we provide our findings for the sample projects reviewed based on Eversource's
6		responses to Staff Data Request 12-044 and 12-045, and the follow-up data requests
7		represented in TS 2-51 (Attachment JED-3), TS 2-56 (Attachment JED-4), TS 2-59
8		(Attachment JED-5), and TS 2-60 (Attachment JED-6).
9		
10		2018 Capital Projects
11		1. Project #A14W02 Daniel Substation (Webster) 34.5 kV Upgrade
12		Attachment JED-3 <u>CONFIDENTIAL</u>
13		2018 Budget: \$6,959,535 Revised: \$15,352,420 Actual: \$19,138,965
14		Budget v. Actual: \$12,179,430
15		[BEGIN CONFIDENTIAL]
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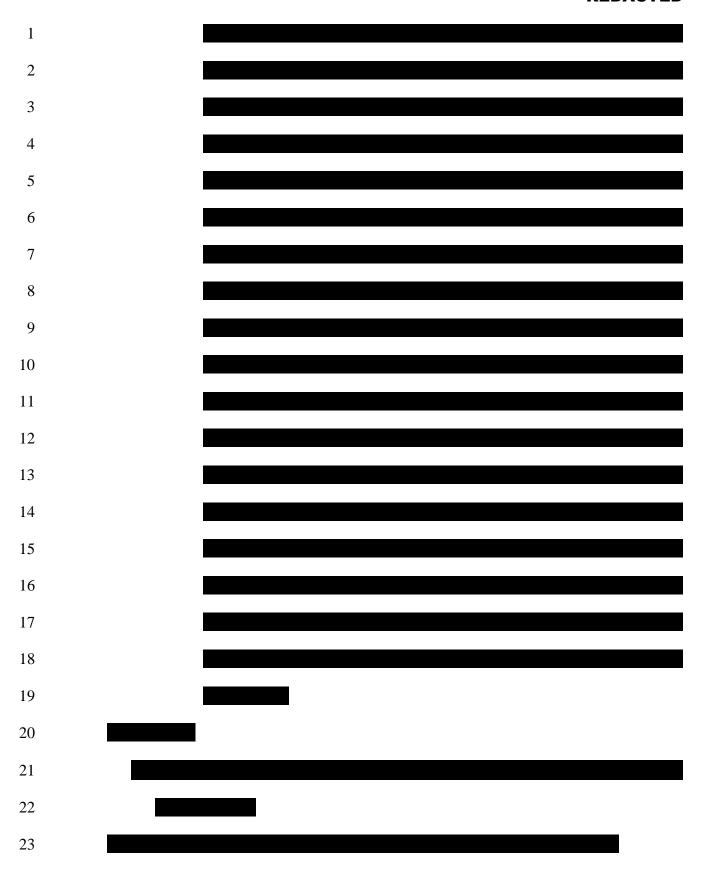
¹⁰ See Attachment JED-3, Request No. TS 2-051.

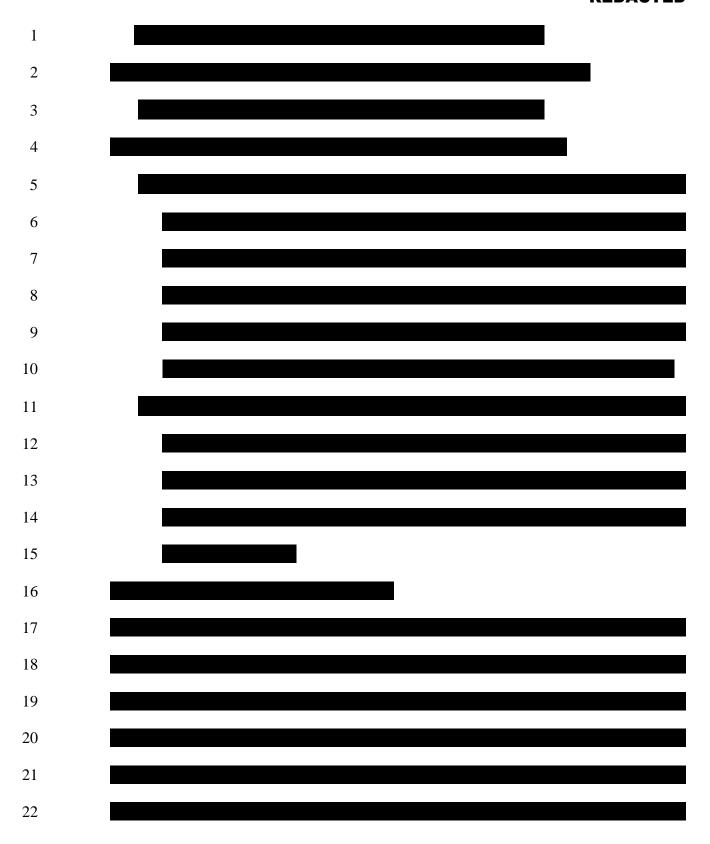


¹¹ See Testimony of Erica L. Menard, Attachment ELM-5 (Perm) at 9-10 (Bates 1370-1371).

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 $^{^{12}\} See$ Data Responses OCA 6-098a and TS 2-051i included in Attachment JED-3.

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16	[END CONFIDENTIAL]
17	2. Project #A18VRP Viper Replacement Project Attachment JED-4
18	2018 Budget: \$895,000 Revised: \$5,997,114 Actual: \$6,003,793**
19	Budget v. Actual: \$8,984,000
20	**Supplemental Request Form shows \$9,879,000
21	Project Authorization Form:
22	• This project initially involved the replacement of approximately 223 defective
23	Viper reclosers that had been recalled by the manufacturer for model years 2014

and 2015 due to faulty vacuum bottles. Eversource experienced approximately 15 failures of the reclosers for those model years.

- As part of the recall, the manufacturer agreed to rebuild the defective reclosers and cover the costs of removal and reinstallation.
- Turnaround time for the manufacturer to rebuild the reclosers was approximately five weeks.
- As noted above, the original budget and final cost amounts referenced in the project documentation differed from the amounts provided in Attachment ELM-3 at Bates 1268 (i.e. \$950,000 and \$9,879,000).

Supplemental Request Form:

- This request materially changed the scope of the project as described above. Whereas the initial plan was to replace the defective Viper reclosers with "rebuilt units at zero material cost and requiring only minimal P&C engineering...," the decision was later made by "NH senior management to supplement the inventory by utilizing Scadamate switches and Nova reclosers" due to concerns involving the amount of time required to ship the defective reclosers back to the manufacturer for rebuild and return. Installation of the new Scadamate switches and Nova reclosers would involve material costs for the new devices along with adjustments and additional commission work increasing the budget for the project by \$8.9 million.
- Eversource represented in the Technical Session held on October 29, 2019, that the Nova reclosers were of higher quality and more reliable than the Vipers. The

1 cost of the Nova reclosers was approximately \$31,600 per unit as compared with 2 the cost of the Vipers which was \$23,500 per unit. 3 The "Justification" section of the form provides no economic analysis or financial 4 assessment to support the decision to switch out and replace the Viper reclosers 5 with the new Nova units at an additional cost of \$8.9 million, beyond the facts 6 that Eversource had experienced multiple failures of the Vipers and that the 7 turnaround time for refurbishment under the manufacturer's warranty (five 8 weeks) was apparently too long. 9 The manufacturer eventually reimbursed Eversource in 2019 for labor costs and 10 materials costs associated with the defective Vipers in the amount of \$960,300. 11 Eversource represents that all of the rebuilt Viper units have been re-deployed in the field. 12 13 A "Lessons Learned" analysis and an "Alternatives" analysis was not provided in 14 the form. 15 Work Orders: 16 In response to Staff TS 2-056, Eversource provided a spreadsheet listing all of the 17 work orders and locations associated with the redeployment of 161 rebuilt Vipers. 18 Project Reviews Performed by Eversource Enterprise Risk Management Group: 19 The reviews were not provided as requested in Staff 12-045. 20 Project Reviews Performed by the Financial Planning and Analysis Group: 21 • The reviews were not provided as requested in Staff 12-045. 22 Project Reviews & Approvals by the Project Authorization Committee: 23 • The reviews were not provided as requested in Staff 12-045.

Staff's Conclusions & Recommendations:

Like the Daniel and Webster Substation project discussed above, Staff found the initial justification for the project reasonable and supportable in terms of known failures, customer outages, and the manufacturer's recall to rebuild and replace the defective Viper reclosers under warranty at little or no cost to Eversource. Nevertheless, despite the recall, Company management made the uneconomic decision to replace all of the Vipers with the more expensive Nova units instead of considering the less costly alternative. Upon reviewing the engineering aspect of the project, Staff concludes that the five-week turnaround time offered by the manufacturer was not unreasonable and that individual Viper units could have been temporarily removed and bypassed while waiting for the units to be rebuilt and returned from the manufacturer. Again, a prudent manager would have used reasonable assumptions and judgement to assess all viable options before undertaking an increase in investment of this magnitude. Staff was unable to find any indication from a review of the documentation provided that Eversource performed such an analysis. As a result, Staff recommends that the Commission disallow all of the costs over and above the original estimate of \$895,000, resulting in a total disallowance of \$5.1 million.

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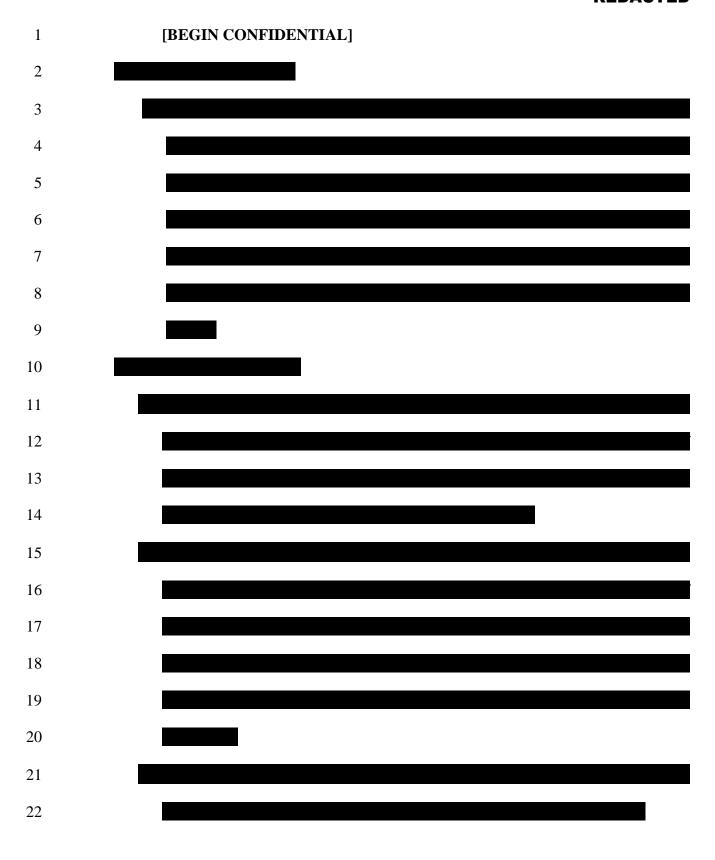
2017 Capital Projects

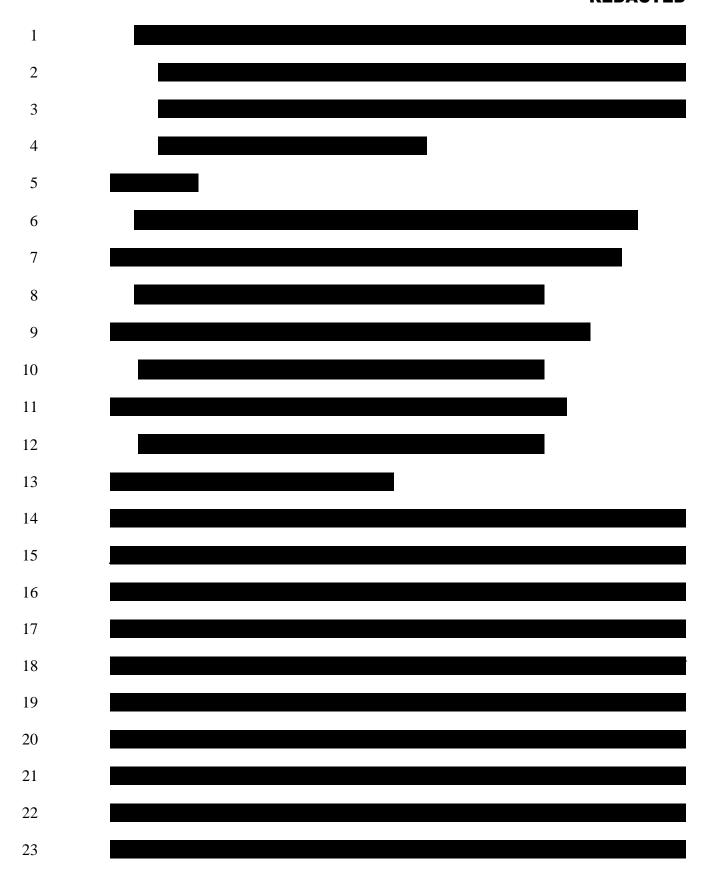
1. Project #A14S08 Garvins Substation Rebuild

Attachment JED-5 <u>CONFIDENTIAL</u>

22 **2017 Budget: \$3,449,000** Revised: \$4,368,444 Actual: \$5,479,461

Budget v. Actual: \$2,030,461





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13	[END CONFIDENTIAL]
14	2. Project #A14N21 Berlin Eastside 34.5 kV Line Breaker
15	Attachment JED-6
16	2017 Budget: \$1,071,000 Revised: \$2,838,000 Actual: \$3,709,636
17	Budget v. Actual: \$2,638,636
18	Project Authorization Form:
19	• This project involved the installation of a 34.5 kV breaker and additional
20	grounding bank at the Berlin Eastside Substation, and the removal of obsolete
21	equipment including two 55 year-old 34.5 kV transformers. The PAF states that
22	removing the obsolete equipment in conjunction with the breaker installation
23	would be more efficient as opposed to performing the work in multiple stages.

The initial cost estimate for the project was \$1.3 million which does not match the amount provided in Staff 12-045 of \$1.07 million.

Supplemental Request Form:

- This request for supplemental funding is in the amount of \$2.3 million and was
 dated March 22, 2018, approximately nine months after the project's in-service
 date of June 2017. As discussed above, this runs contrary to the requirement for
 timely submission and approval as provided in the APS-1.
- Under the Executive Summary section, the cost increase was attributed to
 numerous cost components that were not considered in the preliminary
 engineering and estimate including the need to contract an outside engineer, line
 modifications and construction, environmental testing and remediation, and line
 materials. In addition, costs associated with engineering and testing were
 severely underestimated. Altogether these missed cost components totaled
 approximately \$1.7 million.
- In its response to Staff TS 2-059, Eversource claims that a site visit was
 conducted prior to preparation of the initial scope and estimate of the project, and
 that several additional site visits were conducted during the design process.
- The "Lessons Learned" section was not included on this form.

Work Orders:

• No work orders were provided by Eversource as requested in Staff 12-045.

Project Reviews Performed by Eversource Enterprise Risk Management Group:

- The reviews were not provided as requested in Staff 12-045.
- <u>Project Reviews Performed by the Financial Planning and Analysis Group:</u>

• The reviews were not provided as requested in Staff 12-045.

Project Reviews & Approvals by the Project Authorization Committee:

• The reviews were not provided as requested in Staff 12-045.

Staff's Conclusions & Recommendations:

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Staff found the initial justification for the project reasonable in terms of known obsolescence involving the asset condition of the some of the components of the substation and the need for related upgrades. However, after reviewing all of the essential cost components that were missed during the initial engineering and estimating phase of the project, and the resultant cost escalations totaling \$2.3 million, Staff finds this to be additional evidence of a severely flawed scoping and planning process at Eversource. Again, Staff presumes that Eversource engineers possess a high level of expertise and experience in performing project cost estimates, and given that several site visits were conducted during the design phase, Staff is puzzled as to why so many cost elements were missed during this stage of the project. Staff posed this question to Eversource in TS 2-059 a. but the Company's response was that they have transitioned to a new process involving the Project Management Institute's best practices and that the project had proved to be more complex than originally anticipated. Staff believes a judicious project manager would have been more diligent and forward-looking in considering the various cost components and possible scenarios that could impact the project, and that the site walk-downs should have informed that process, thus producing a scope document and cost estimate that would have been more comprehensive and complete. Instead, as the documentation appears to indicate, Eversource's site engineers had to devote much of their time to re-engineering the project during the construction phase adding to the costs. As a result, Staff recommends that the Commission disallow all of the costs over and above the original estimate of \$1.3 million, resulting in a total disallowance of \$2.6 million.

Q. Did Staff discover any other capital projects in its sample list that appeared to be problematic?

Yes. In reviewing capital investments for 2015 as represented in Ms. Menard's

Attachment ELM-3, Staff noticed significant cost overruns for projects designated as

regional DA related to the REP3 program. This prompted Staff to conduct a more

detailed review of the following projects:

<u>Project No.</u>	<u>Description</u>	Budget	Actual	Variance
A15CDA	Central Region 2015 DA	\$1,056,200	\$4,859,890	\$3,803,390
A15EDA	Eastern Region 2015 DA	\$ 236,240	\$5,182,798	\$4,946,558
A15NDA	Northern Region 2015 DA	\$2,333,600	\$9,292,601	\$6,959,001
A15SDA	Southern Region 2015 DA	\$ 764,750	\$4,022,145	\$3,257,395

Upon examination of the Supplemental Request Forms for these projects, Staff noticed the following statement included in the "Justification for Additional Resources" sections at 2: "When this project was approved, the Company expected the REP to be extended at its existing funding level through the end of 2017. In July of 2017 the NHPUC approved a funding level for REP for the remainder of 2017 at half its previous level. In order to maintain the pole top DA installations at the planned level, the decision was made to change the funding source for non-REP installations to base budget." Staff interprets this statement to mean that once the Commission imposed a spending limit for this program, Eversource shifted its planned amount of expenditures to its base budget. The quote

above refers to the Commission's order in Docket No. DE 17-076 in which Eversource sought continuation of the REP program for an additional two years at an increased level of funding. 13 At the time, Staff had concerns about the level and sources of the funding and recommended that funding be limited to \$10 million for the remainder of 2017. After holding side discussions with Staff and the OCA, the Company agreed to the revised REP capital plan that included a budget of \$10 million, of which approximately \$2.7 million was to be dedicated to distribution automation that included pole top automation. 14 The Commission approved the revised REP capital plan in its Order. Staff is troubled by the fact that Eversource had the opportunity in that proceeding to give Staff and the Commission advanced notice of its plan to shift spending for the DA deployment to its base budget, but chose not to do so. As a result, Staff and the Commission were left with the false impression that the Company was in agreement with those limitations. Consequently, Staff recommends the Commission disallow all of the costs over and above the original budget estimates for those projects, resulting in a total disallowance of \$18.9 million.

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Q. Does Staff has recommendations involving the other projects in its sample group?

A. Yes. Staff recommends cost overrun disallowances for the following capital projects:

20	Project No.	<u>Description</u>	Budget	Actual	Variance
21	A16C09	Blain St. Substation	\$2,255,000	\$3,969,115	\$1,714,115
22	A16C10	Jackman Replace Eqpt.	\$4,228,000	\$7,132,860	\$2,904,860
23	A16E06	West Rye Substation	\$1,040,000	\$2,698,369	\$1,658,369
24	A18E16	West Rd Overload	\$ 536,000	\$1,408,801	\$ 872,801
25	A07X45	Reject Pole Replacement	\$ 634,000	\$1,287,000	\$ 653,000

¹³ See Order No. 26,034, Docket No. DE 17-076 at 3.

¹⁴ *Id*. at 4.

1 2 3 2017 4 Project No. **Description Budget** Actual Variance 5 A16C01 3271 Line Reconductor \$ 771,000 \$2,458,566 \$1,687,566 6 NHRMTR17 NH Remote Disconnect \$1,235,618 \$2,283,449 \$1,047,831 7 DL9R Distribution ROW \$1,239,800 \$2,379,966 \$1,140,166 8 9 2016 10 Project No. **Description** Budget Actual Variance Convert Laconia \$ 144,339 \$2,465,701 \$2,321,362 11 A15N01 12 Distribution ROW \$ 626,198 DL9R \$1,643,132 \$1,016,934 13 14 **TOTAL** \$15,017,004 15 16 17 All of these projects shared the same documentation deficiencies • PAF's that exhibited differing initial budget estimates and incomplete analysis 18 19 involving alternatives, financial assessment, implementation plan, risks, and 20 decision-making process. 21 • Supplemental Request Forms that in some cases were filed after project completion and were nondescript in terms of analysis to support the cost 22 increase. 23 Work orders that were not submitted by Eversource. 24 25 • Project reviews performed by the Project Approval Committees and the Financial Planning Group that were either not provided or did not include discussion or 26 27 reference to significant cost overruns of certain projects. In the above discussion of projects reviewed for both 2018 and 2017, you refer to 28 Q. 29 some instances of missing documentation not provided by Eversource. Please 30 explain.

A. At the Technical Sessions held on October 28 and 29, 2019, Eversource represented that it would provide missing project documentation by way of follow-up that was not originally filed with the Company's responses to Staff data requests 12-44 and 12-45. Both data requests were quite specific in terms of the types of documentation Staff was interested in reviewing. Although some missing documents were eventually provided (e.g. Project Authorization Forms), as the period for discovery expired documentation for many of the projects from Staff's sample list referenced above were not provided by Eversource. As a result, Staff will recommend disallowance for the over-expenditures associated with those projects since they were not supported by evidence and documentation requested but not provided by Eversource.

Α.

- Q. Please summarize Staff's findings based on the review of sample projects for 2018 and 2017 and the documentation and reports obtained from Eversource.
 - My response is divided in two parts. First, Staff's review was largely dependent upon the quality of documentation provided by Eversource in their data responses. Although Eversource appears to have been consistent in filing and processing all of the standard documentation and reports required under the Company's internal processes and procedures, most of the documentation examined by Staff lacked the level of detail and analysis required by those same policies and procedures, in many instances providing only a cursory assessment of the capital projects mentioned. In terms of data responses both written and obtained at the Technical Sessions, Eversource was given ample opportunity to provide root causes and detailed analysis for the cost overruns reviewed,

but the answers received were vague and lacking in specifics. Staff's overall findings for each of the documents reviewed are as follows:

- a) Project Authorization Forms: In Staff's view, this is a key piece of documentation since, under Eversource's APS-1 policy and procedures for capital expenditures, this form provides the essential details, and primary justifications for, a given capital project. Although Staff found some sections of the forms to be fairly complete (e.g. the Executive Summary, Scope of Work, Project Description), many of the PAF's reviewed did not provide sufficient details and analysis for "Alternatives Considered" or "Overall Justification." In addition, some of the PAF's did not provide any basis for the proposed budget estimates nor economic justification for the projects. Moreover, for many of the PAF's reviewed, the initial budget amounts were consistently under-estimated, in some cases by several times the amount of the actual expenditures as reflected in Attachment JED-3, JED-4, and Tables 1 and 2 above.
- b) Supplemental Request Forms: Some of the forms reviewed were submitted after the project completion dates. This practice runs contrary to the apparent intent of the form as described in the APS-1 Project Authorization Policy since engagement of management for approval, and alerting management to cost overruns, presumably should be sought during the course of the project at the time the changes occurred. This after-the-fact notification essentially negates the need for and purpose of the form. In addition, no reasonable economic justification for many of the cost increases were provided, nor did Eversource

¹⁵ Attachment ELM-5 at Bates 1365-1369.

¹⁶ *Id.* at Bates 1369.

provide root cause analysis in terms of the cost escalations. As noted above, in its response to Staff TS 2-051b, Eversource states that root cause analysis is not necessary since the project cost process is "iterative" and "involves graduated stages of information gathering." This leaves unexplained what purpose the initial budget amounts serve if they are not to be relied on or referenced as an appropriate starting point for measuring project costs. In addition, under the "Lessons Learned" section, it was frequently disclosed the site visits were never conducted during the preliminary design and estimating phase for many projects.

- c) Work Orders: For most of the projects reviewed, copies of work orders were not provided by Eversource as requested.
- d) <u>Project Reviews Performed by Eversource Enterprise Risk Management Group:</u>
 The reviews were not provided as requested in Staff 12-045.
- e) <u>Project Reviews Performed by the Financial Planning and Analysis Group:</u> The reviews were not provided as requested in Staff 12-045.
- f) Project Reviews & Approvals by the Project Authorization Committee: In most instances the reviews were not provided even though the Committee meets on a monthly basis. In the few cases that information was provided, only a cursory level overview was given but with no information in terms of the degree of oversight, attempts at cost containment (if any), or the thought or decision-making process on the part of upper level management concerning the cost overruns of the project.¹⁷

¹⁷ In response to a data request from the Office of Consumer Advocate, OCA 4-002, Eversource submitted a limited number of committee reports for 2017-2018. Upon examination, none of the reports included any references to the projects under Staff's review with the exception of the Viper Replacement Project #A18VRP.

1		Staff believes that when a public utility undertakes investments of this magnitude the
2		decision-making process should involve consideration of different future scenarios and
3		options. A prudent manager would have used reasonable assumptions to assess those
4		scenarios and options. Since Eversource did not do this, and most of the additional costs
5		were the result of a deficient process, Staff recommends disallowance of the cost
6		overruns for these projects.
7		
8	Q.	Did Staff have reasonable expectations in terms of informational content involving
9		the documents requested from Eversource?
10	A.	Staff expected that it would obtain information from Eversource that would provide
11		details and support for the presumption that some or all of the cost overruns were
12		reasonably incurred. In particular, Staff was looking for the following:
13		a) Specific causes of the cost increases for certain projects from inception to
14		completion.
15		b) Extent of project management involvement and methodologies utilized to
16		assure cost control.
17		c) Documentation evidencing the existence of cost-effectiveness and
18		efficiency in project management, engineering, procurement, and
19		construction.
20		d) Amount or level of interaction with contractors in containing costs.
21		e) Techniques used to review and measure the performance of project
22		management and cost control.
23		Staff believes that these measures represent reasonable and typical management

practices. Moreover, for a public utility, management's judgment should be substantiated in a way that permits thorough review. As mentioned above, in response to several follow-up data requests from the Technical Session held on October 29, 2019, Eversource provided a detailed statement on "best practices" under the Project Management Institute's Project Management Body of Knowledge that Eversource claims it adheres to as part of it project management process. Unfortunately, Staff was unable to find evidence that those best practices were applied in the projects reviewed by Staff, nor was there sufficient evidence that Eversource's budgeting and planning process incorporated any of the types, or similar types, of project management and cost control listed above. Therefore, based on the substantial record Staff reviewed, Staff cannot conclude that such metrics were considered by Eversource and that the costs were reasonably incurred.

A.

Q. Did Staff examine plant additions beyond what was included in Staff's sample referenced above, and if so, what were Staff's conclusions?

Staff examined each of the projects listed in Attachment JED-1 and JED-2 for the purposes of compiling the sample list. However, due to the sheer number of projects listed from 2013 through 2018, Staff did not have the time or the resources to conduct an in-depth review of each project. Nevertheless, based on Staff's examination of the capital projects listed in the sample, and our findings discussed above, Staff concludes that there is a high likelihood that the same deficiencies would be found in the projects that were not reviewed. As a result, it is Staff's recommendation that the Commission open a separate docket for the purposes of investigating Eversource's capital budgeting

Docket No. DE 19-057 Exhibit 32

and planning process (after this case concludes), including a prudence review of individual capital projects that comprise Eversource's 2019 step increase request, and hire a consultant to assist Staff in that investigation.

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5 VI. STEP ADJUSTMENTS AND PROPOSED GTEP

- Q. Did Eversource propose any step adjustment increases as part of its overall rate
 request?
- Yes. Similar to Eversource's previous request in Docket DE 09-035, the Company proposed an initial step adjustment increase for 2019 in the amount of \$15 million. This increase incorporates costs associated with Eversource's capital spending for 2019 totaling approximately \$128 million and is proposed to take effect concurrently with the Commission's approval of the permanent rate increase. ¹⁸

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- 14 Q. In Docket DE 09-035 the parties agreed through Settlement that the first step
 15 increase, along with subsequent step increases, should be approved by the
 16 Commission. Does Staff support approval of Eversource's step increases proposed
 17 in the present docket?
 - A. No. As the question indicates, in Eversource's last rate case the first step adjustment, along with additional step increases through to 2012, were ultimately incorporated, along with other negotiated issues, into a broad-based Settlement Agreement resolving the multiple issues between the parties. Unfortunately, due to the schedule in that case, and the timing of the Settlement discussions, there was no opportunity for Staff to conduct a

¹⁸ Chung/Dixon Testimony on Permanent Rates at 91 (Bates 152), 97 (Bates 158) and Attachment EHC/TMD-3 at 1 (Bates 313).

thorough review of Eversource's 2009 capital budget, nor did the Audit Division have time to perform an audit. Moreover, by the time the final capital spending numbers for 2009 (i.e. actual expenditures as compared with the budgeted amounts) were available from Eversource (with the year-end closure of Eversource's books), the time for discovery and testimony involving individual projects had passed. In the present rate case, a similar situation is emerging whereby Eversource's capital spending budget for 2019, and subsequent capital budgets from 2020 through 2022, comprise the step increases proposed by the Company. In terms of the first step increase, like the prior rate case, the final expenditure amounts for those plant additions are not yet available for Staff or Audit to review (not to mention projects that may have been postponed or cancelled in the interim). In addition, the time for serving discovery and submitting testimony related to the 2019 capital projects has now passed. Consequently, Staff is recommending that the Commission not approve the 2019 step increase concurrently with the permanent rates as requested by Eversource. Instead, Staff recommends that the Commission order the scheduling of a separate proceeding to investigate this matter in 2020 so as to allow sufficient time for a complete review of the 2019 capital expenditures by both Staff and Audit.

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Q. Is Staff deviating from precedent by not recommending approval of the first step increase as requested by Eversource?

A. Staff is not aware of any precedent that requires the automatic acceptance and approval of any step increase without an adequate and reasonable process for review by Staff, Audit, and the Commission. As we have documented above, examples of deficiencies in

Eversource's capital planning and budgeting in this rate case justify the need for a comprehensive review of any future step increases.

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Q. Does Staff have any concerns involving the future step increases requested by Eversource?

Yes. Additional step adjustments are proposed for 2020 through 2022, and are to include A. various O&M expenses, IT expenses and anticipated union wage increases, in addition to capital expenditures. ¹⁹ In terms of plant additions, according to Mr. Chung's and Mr. Dixon's testimony, the Company forecasts total changes to gross plant of \$148 million in 2020, \$113 million in 2021, \$133 million in 2022. 20 Eversource proposes to make annual compliance filings with the Commission on or before April 30 of each year to document the prior year's expenses and to confirm that all plant additions are in service.²¹ Under the current proposal as filed, Eversource did not provide specifics on the type of projects that would be undertaken; however, the Company did provide a spreadsheet of future investments as part of its response to the Office of Consumer Advocate's data request OCA 8-003 (attached as Attachment JED-7), but the information provided was mostly based on broad blanket project categories. Consequently, all that is known about these projects is that they are varied and presumed necessary for future growth. In addition, the projects and amounts provided in the aforementioned list are merely budget estimates for numerous future investments that provide no known or knowable benefits to ratepayers and are subject to modification in future years.

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¹⁹ *Id.*at 93 (Bates 154).

²⁰ *Id.* at Bates 313.

Docket No. DE 19-057 Exhibit 32

1 Q. What is Staff's recommendation for future step increases as proposed by

2 **Eversource?**

A. Staff does not support the proposal and instead recommends that the Commission retain its traditional rate-making role whereby plant additions, along with other expenses, are reviewed comprehensively in periodic rate cases, in order to ensure just and reasonable rates. Staff in particular recommends base rate case review of the Company's plant investments, based on the fact that those investments are numerous, significant in size and complexity, and in some instances unnecessary given the Company's relatively flat load growth, satisfactory reliability, and the adoption of updated performance standards. For those reasons, Staff recommends that the Commission deny the Company's proposal

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- Q. Did you undertake an assessment of Eversource's proposed GTEP as part of your examination of the Company's capital investments?
- No. Although the GTEP proposal is interrelated with future capital investments in terms of the Company's base capital plan and cost recovery, this issue is thoroughly discussed in the testimony of Kurt Demmer and Richard Chagnon. Based on their review of the program, I agree with their recommendation that the Commission should deny Eversource's proposal for the GTEP.

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21 VII. CONCLUSIONS AND RECOMMENDATIONS

involving future step increases.

22 Q. Please summarize Staff's findings.

²¹ *Id.* at 97 (Bates 158) and 98 (Bates 159).

1 **A.** In summary, based on the extensive review outlined above, Staff is unable to find that
2 Eversource provided sufficient economic justification and analysis to support the capital
3 projects reviewed or the sizeable cost overruns associated with some of those projects, for
4 the following reasons:

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- Staff found no evidence that Eversource analyzed alternatives, considered least
 cost planning, performed sufficient financial analysis, or complied with its own
 policy and procedures involving many of the PAF's and the Supplemental
 Request Forms.
- Staff found initial budgeted amounts and revised budget amounts both in the spreadsheets and the Supplemental Request Forms, to be consistently underestimated and unreliable thus calling into question the quality of the figures contained in Eversource's reports and other related documentation.
- Staff found little evidence that Eversource's project planning and management constitutes an efficient or organized process or that proper processes and controls are in place for reasonable and prudent decision making.
- Eversource provided little evidence that its project management employed appropriate cost control methodologies or techniques, or that it reasonably responded to changing circumstances or new challenges as projects progressed.
- Staff found that Eversource does not always observe Good Utility Practice and did not conduct its capital budgeting and planning in a manner that was economic or efficient.

- Eversource's approach to capital budgeting and planning directly impacts rates given that this rate case was filed primarily because of \$36 million in capital expenditures invested by the Company since the last rate case.
 - The delays by Eversource in providing key documents, or not providing them at all, hampered Staff's review in this case.

Q. What recommendations does Staff propose as a result of its analysis of Eversource's revenue requirement?

First, Staff incorporates the recommendations of witness Mullinax. Ms. Mullinax recommends a total reduction of \$44.875 million from the proposed revenue requirement based on her extensive review of Eversource's proposed revenue requirement and Staff's recommended adjustments. Staff also recommends that the Commission reject the proposed step increase for 2019 and all future step increases, and Eversource's proposal for GTEP, given Staff's overall determination that Eversource has exhibited substandard capital planning and budgeting based on the evidence provided above. Instead, Staff recommends that the Commission open a separate docket for the purposes of investigating Eversource's capital budgeting and planning processes, including (if the Commission approves a step increase for 2019 investments) a prudence review of individual capital projects that comprise the Company's step increase request for 2019, and consider hiring a consultant to perform a business processes audit in support of that investigation.

A.

Docket No. DE 19-057 Exhibit 32

1		Lastly, based on our review of capital projects for 2015 through 2018 outlined above,						
2		Staff recommends a total disallowance from Eversource's proposed rate base of						
3		\$62,999,792.	\$62,999,792.					
4		In summary, Staff's proposed adjustments to the Company	In summary, Staff's proposed adjustments to the Company's rate base are as follows:					
5								
6		Total Rate Base	\$1,215,689,670 ²²					
7		Less:						
8		Adjustment for Capital Expenditures	(\$62,999,792)					
9		Adjusted Rate Base	\$1,152,689,878					
10								
11	Q.	Does that conclude your testimony?						
12	A.	Yes, it does.						
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14								

²² Mullinax Testimony at 3.

Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 09/20/2019 Date of Response: 10/04/2019

Request No. STAFF 12-044 Page 1 of 3

Request from: New Hampshire Public Utilities Commission Staff

Witness: Erica L. Menard

Request:

Reference testimony of Ms. Erica L. Menard at Bates 924; Attachment ELM-3 (Perm) at Bates 1262, 1263, and 1281; and 1264, 1282; and Attachment ELM-4 at Bates 1287 to 1311. For each of the projects and plant additions listed below for 2013 and 2014, please provide all copies of all documentation required under the pre-2015 Capital Project Authorization Policy (Attachment ELM-4) including capital work orders, work requests, engineering work requests, work order approvals (including all levels), project estimate analysis reports, project revision forms, CBRC project approval forms and revision sheets, and all reports and analysis utilized or produced by the monthly ED project review meetings:

Program Operations Projects & Plant Additions 2013

riogi	aiii O	peratio	Specific	ects & Flant Additions 2015	Pro	e-Construction	Revised	Total Costs
Line	Year.	Plant Type	Project N	o, Project Description	E	timated Costs	Estimated Costs	Of Project w/COR
	Col. A	Col. B	Col. C	Col. D		Col. E	Col. F	Col. G
2	2013	Distribution	ADENSOA	REBUILD 386 LINE NO ROCHESTER S/S	5	1,928,000 \$	4,365,700 \$	4,578,631
5	2013	Distribution	A08508B	3701L (32W4 &32W5) NEW 12.47K	5	1,319,000 \$	2,502,100 \$	2,295,983
6	2013	Distribution	A08543	REBUILD 34.5KV BUS AT BROOK ST 5/S	5	600,000 \$	6,680,600 \$	6,466,577
7	2013	Distribution	A08543C	CANAL S/S 3056 BREAKER REPLACEMENT	\$	1,102,700 \$	1,945,600 \$	1,838,132
10	2013	Distribution	A08W49	REPL 2 SF6 SWITCHS WITH TRAYER KEENE URD	\$	150,000 \$	4,219,475 \$	3,379,788
13	2013	Distribution	A09W15	317L - RISLD LINE PENACOOK TO DAVISVILLE	5	2.647,000 S	4,198,820 5	4,185,869
14	2013	Distribution	A10N03	32 LINE - NEW 34.5 KV LINE	5	419,300 \$	1,235,600 \$	1,236,261
17	2013	Intangible	A10X05	GIS CAPITAL PROJECT	5	1,000,000 \$	9,262,600 \$	9,263,330
18	2013	Distribution	A11N02	BERLIN EAST SIDE S/S RENOVATION	\$	1,500,000 \$	2,870,100 \$	2,712,795
20	2013	Distribution	A11517	MALVERN ST S/S DIST. LINE WORK	5	4,000,750 \$		
2.1	2013	Distribution	A12N01	REBUILD COMMUNITY STREET SUBSTATION	5	1,600,000 \$	7,475,000	8,029,062
22	2013	Distribution	Al2N01A	BERUN 4KV SYSTEM RECONFIGURATION	\$	970,000 \$	2,268,000 5	2,229,403
26	2013	Distribution	A12502	REPLACE NOWELL ST S/S TRANSFORMER	\$	400,000 \$	1,140,500 (1,108,555
46	2013	General	GCMEXT	GC&M BUILDING EXTERIOR SIDING/WINDOWS	\$	978,251 \$	1,201,343 \$	1,208,867
ě	2913	Distribution	A04534	Direct Surred Cable Regracement	P	820,000 3	5/000/000 5	1,820,780
10	2013	Distribution	A07X98	NESC Capital Repairs	5	750,000	5 3,000,000 5	2,879,780
13	2013	General	GX9R	Teols/Equipment Construction	5	489,540	5 613,000 S	612,970

Program Operations Projects & Plant Additions 2014

5 6	2014 2014	Distribution A12506 Distribution A12X04	INSTALL STEP TO ELIM PROJCTD OVERLD PURCHASE NEW 115-12.47KV MOBILE	\$	20,000 \$ 70,000 \$	710,800 1,790,000	-	712,821 1,959,389
12 13	2014 2014	Distribution A14N06 Distribution A14N11	MILL POND DISTRIBUTION LINE WORK DOWNTOWN PORTSMOUTH UG SYS IMPROVE	\$	1,049,000 S 600,000 S	3,643,000 2,943,000	7	3,722,034 2,951,856
25	2014	Distribution UB1313	CONSTRUCT NEW CIRCUIT-BRISTOL S/S	\$	1,000,000 \$	1,746,485	\$	1,701,232
34	2014	Distribution UB1412	2014 DA DEPLOYMENT	\$	3,230,000 \$	4,433,300	\$	4,419,313
1	2014	Distribution AD4534	Direct Buried Cable Replacement	\$	1,000,000 \$	1,552,600	\$	1,552,910
1.0	2014	Distribution A34X02	Replace Obsolete KTV's	2	5,000,000 3	2,804,900	P	2,995,750

Response:

The following attachments contain project approval documentation, a list of work orders under the project and work order authorization documentation. The list of work orders is provided to demonstrate the set of work order within each funding project. Work orders are generated from either the MIB/PowerPlan system or the work management system STORMS. In 2013 and 2014, MIB/PowerPlan work orders used a manual work order authorization process, however STORMS utilized an electronic approval process. Due to the voluminous nature of the STORMS work order requests, copies of the electronic work order approvals were provided only for work orders over \$200,000.

Attachment Staff 12-044 A contains the A06N30A project and work order authorization documentation. Attachment Staff 12-044 B contains the A08S08B project and work order authorization documentation. Attachment Staff 12-044 C contains the A08S43 project and work order authorization documentation. Attachment Staff 12-044 D contains the A08S43C project and work order authorization documentation. Attachment Staff 12-044 E contains the A08W49 project and work order authorization documentation. Attachment Staff 12-044 F contains the A09W15 project and work order authorization documentation. Attachment Staff 12-044 G contains the A10N03 project and work order authorization documentation. Attachment Staff 12-044 H contains the A10X05 project and work order authorization documentation. Attachment Staff 12-044 I contains the A11N02 project and work order authorization documentation. Attachment Staff 12-044 J contains the A11S17 project and work order authorization documentation. Attachment Staff 12-044 K contains the A12N01 project and work order authorization documentation. Attachment Staff 12-044 L contains the A12N01A project and work order authorization documentation. Attachment Staff 12-044 M contains the A12S02 project and work order authorization documentation. Attachment Staff 12-044 N contains the GCMEXT project and work order authorization documentation. Attachment Staff 12-044 O contains the UB1161 project and work order authorization documentation. Attachment Staff 12-044 P contains the A04S34 2013 project and work order authorization

Attachment Staff 12-044 Q contains the A07X98 2013 project and work order authorization documentation.

Attachment Staff 12-044 R contains the GX9R 2013 project and work order authorization documentation.

Attachment Staff 12-044 T contains the A12X04 project and work order authorization documentation. Attachment Staff 12-044 T contains the A12X04 project and work order authorization documentation. Attachment Staff 12-044 U contains the A14N06 project and work order authorization documentation. Attachment Staff 12-044 V contains the A14N11 project and work order authorization documentation. Attachment Staff 12-044 W contains the A14S07 project and work order authorization documentation. Attachment Staff 12-044 X contains the UB1313 project and work order authorization documentation. Attachment Staff 12-044 Y contains the UB1412 project and work order authorization documentation. Attachment Staff 12-044 Z contains the A04S34 2014 project and work order authorization documentation.

Attachment Staff 12-044 AA contains the A14X02 2014 project and work order authorization documentation.

In addition, Attachment Staff 12-044 AB contains the end of year capital budget authorization committee reports for 2014 and 2015 and meeting notes for the monthly meetings.

Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 09/20/2019 Date of Response: 10/10/2019

Request No. STAFF 12-045 Page 1 of 5

Request from: New Hampshire Public Utilities Commission Staff

Witness: Erica L. Menard

Request:

Reference testimony of Ms. Erica L. Menard at Bates 930 - 932; Attachment ELM-3 (Perm) at Bates 1265 to 1268 and Bates 1283 to 1286; and Attachment ELM-5 at Bates 1362 - 1399. For each of the projects and plant additions listed below for 2015, 2016, 2017 and 2018, please provide all copies of all documentation required under the post-2015 Capital Project Authorization Policy (Attachment ELM-5) including project authorization forms, work orders, project approvals (all levels), project reviews performed by Eversource Enterprise Risk Management group, project reviews performed by Financial Planning and Analysis group, authorizations for additional resources (supplement request forms) and related reviews and approvals by the Project Authorization Committee, and Subsidiary Board packages and presentation materials (if applicable) including Board minutes and Board resolutions. Also, please indicate if any of the projects were designated as "Corporate Shared Services Projects" and provide any additional documentation as required by Attachment ELM-5:

Program Operations Projects & Plant Additions 2015

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Line	<u>Year</u> Col. A	Plant Type Col. B	Specific Project No Col. C	. <u>Project Description</u> Col. D		re-Construction stimated Costs Col. E		Revised imated Costs Col. F	
1	2015	General	15703	PSNH - BLDGS STRUCTURES & GEN PLANT	\$	293,565	5	1,047,314	
3	2015	Distribution	A09N10	3601 LINE, BUILD NEW LINE	\$	324,000	S	652,937	
5	2015	Distribution	A12W05	REPL LACONIA UNDRGRD SWITCHGEAR 70W	\$	326,687	;	1,882,000	
11	2015	Distribution	A14W18	NO KEENE S/S - NEW DISTRIBUTION CIR	\$	906,000	\$	1,535,000	
12	2015	Distribution	A15CDA	CENTRAL REGION 2015 DA	\$	1,056,200	\$	3,787,200	
15	2015	Distribution	AISEDA	EASTERN REGION 2015 DA	\$	236,240	\$	3,692,000	
18	2015	Distribution	A15NDA	NORTHERN REGION 2015 DA	\$	2,333,600	\$	6,096,000	
24	2015	Intangible	AMRP6DCA	PSNH AMR PROJECT	\$	1,508,880	s	2,487,800	
25	2015	General	C14002	NH DISPATCH CENTER	5	915,000	5	1,354,928	
26	2015	Distribution	C15ETT	ETT (REP II)	\$	3,000,000	\$	6,557,400	
33	2015	Distribution	R15EDA	REP 3 2015-2016 Eastern Region DA	5	1,821,499	5	4,030,000	
34	2015	Distribution	R15HLDR	Hit List Reliability Enhancements	5		5	3,514,000	
35	2015	Distribution	R15NDA	REP3 - 2015-2016 Northern Region D	\$	1,247,900	5	2,923,000	
38	2015	Distribution	R15RPR	Reject Pole Replacement	\$	1,796,000	\$	6,353,000	
40	2015	Distribution	R15WDA	REP3 - 2015-2016 Western Region DA	\$	3,982,394	\$	5,560,000	
15	2015	General	GX9R	Tools/Equipment Construction		\$	481,	934 \$ 2,0	000,000

Program Operations Projects & Plant Additions 2016

<u>Line</u>	<u>Year</u> Col. A	Plant Type Col. B	Specific Project No Col. C			Pre-Construction Estimated Costs Col. E		Revise Estimated Col. F	Costs	<u>5</u>
_	2016	Distribution	A42204	RIMMON S/\$ ADD 2ND 115-84.5KV 44.8M	5	5.100.000	_	9.511		
6	2016	Distribution	MISSUI	KIMMON 3/3 ADD 2ND 115-54.5KY 44.6M	3	5.100.000	3	9.511	.D/V	
8	2016	Distribution	A13502	3750 LINE. REBUILD RIVER CROSSING	S	118.140	\$	559.	000	
14	2016	Distribution	A15N01	CONVERT LACONIA 4KV TO 12.47KV	\$	144,339	\$	1,918	,406	
24	2016	Distribution	R15CTC	Circuit Tie Construction	5	4.214.000	5	6.509	000.	
26	2016	Distribution	R15DBR	REP3 Direct Buried Cable Replace	\$	1,866,000	5	3,178	,308	
32	2016	Distribution	R15RDA	REP 3 Relay upgrades (2015-2016)	5	_,,	\$	2,756	,485	
33	2016	Distribution	R15SDA	REP3 - 2015-2016 Southern Re	\$	1,347,594	\$	4,052	,000	
34	2016	Distribution	R15SSAI	4 & 12 kV Substations		1,796,000			2,448	:
35	2016	Distribution	R16ETT	NH REP 3 ETT	\$	2,971,800	\$	9,48	3,803	ı
13	2016	Distribution	DL9R	Distribution ROW Annual		2		626.198	5	1.310.300
15	2016	Distribution	DS9RE	ROW Replace Field Equipment - Annual		Ş		218,189	Ş	763,000
17	2016	Dist/General	GM9R	TLS/Equip S/S - Dist Maint & Asset MGT		\$		145,081	Ş	667,000
18	2016	General	GX9R	Tools/Equipment Construction		2		830.618	s	1.513.100

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21	2016	General	VEHICLES	Purchase Vehicles		5	2,889,945 \$	4,269,000
Prog	ram On	erations Pi	roiects & I	Plant Additions 2017				
1108	,rain Op	Crations	ojects & i	iant Additions 2017				
9	2017 2017	Distribution Distribution	A14N21 A14S08	BERLIN EASTSIDE 34.5KY LINE BREAKER GARVINS SUBSTATION REBUILD		\$ \$	1,071,000 \$ 3,449,000 \$	2,858,000 4,368,444
11	2017	Distribution		3271 Line Reconductor		\$	771,000 \$	2,193,000
12	2017	Distribution	A16C02	12H4 West Side Conversion		\$	273,000 \$	491,000
16	2017	Distribution	A16N03	31W2 - Extend Three Phases Rte 106		\$	194,000 \$	534,000
27	2017	Distribution	NHRMTR17	NH Remote Disconnect 2017-2018		\$	1,235,618 \$	1,985,629
28	2017	General	R15TDA	TELECOM EXPANSION TO SUPPORT DA		s	865,000 \$	2,379,000
29	2017	Distribution	R17CTC	REP 4 CIRCUIT TIES		\$	1,777,300 \$	3,042,000
_								
5	2017	Distribution	DL9R	Distribution ROW Annual		Ş	1,239,800 \$	1,869,600
7	2017	Distribution	DS9RE	ROW Replace Field Equipment - Annual		\$	717.200 \$	1.044.200
10	2017	General	GX9R	Tools/Equipment Construction		5	745,000 S	975,800
11	2017	General	IT6DWANA	Telecom WAN Annuals - PSNH		\$	494,365 \$	706,000
Drog	ram ∩n	erations D	rojacts & [Plant Additions 2018				
			•					
1	2018	General	18707	2018 FAC LOB Bldg & GP		5	1,877,000 \$	2,784,940
4	2018	Distribution	A14W02	DANIEL SS (WEBSTER)-34.5KV SS UPGRD	\$	6,959	,535 \$ 15,35	2,420
5	2018	Distribution		Blaine St SS add 34.5-12kV 10MVA tr	\$	2,255		1,000
6	2018	Distribution		JACKMAN - REPLACE OBSOLETE EQUIPMEN	Ş	4,228		6,000
7	2018	Distribution		West Rye S/S Re-build	\$	1,040		2,000
8	2018	Distribution		Chester Automation Upgrade	\$			3,000
9	2018	Distribution		CIRCUIT TIE 3115X12 TO 3615X1	\$			5,000
10	2018	Distribution		Rochester 4 KV Conversion	\$			2,000
11	2018			Laconia SS 24 VDC Cntrl Svs & Relav	_			9.000
13	2018	Distribution	A18E16	West Rd Overloaded Steps	\$			25,000
14	2018	Distribution	A18VRP	Viper Replacement Project-Bettermnt	\$	895	5,000 \$ 5,9	97,114
1	2018	Distribution	A07X45	Reject Pole Replacement		\$	634,000 \$	1,287,000
3	2018	Distribution	COSCTV	Cable TV Projects Annual		\$	552,278 \$	1,714,000
10	2018	General	GX9R	Tools/Equipment Field Operations		5	667,813 \$	1,005,000
11	2018	General	IT6DWANA	Telecom WAN Annuals - PSNH		\$ S	200,885 \$	624,000
-1	2010	General	HODWANA	relevoni wan armusis - Palvin		٥	200,000 \$	024,000

Response:

The following attachments (Attachment Staff 12-045 A through Attachment Staff 12-045 BE) contain the Project Authorization Forms and approval documentation for the projects selected in this data request..

2015 Projects:

Project 15703: Please see Attachment Staff 12-045 A Project A09N10: Please see Attachment Staff 12-045 B Project A12W05: Please see Attachment Staff 12-045 C

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Project A14W18: Please see Attachment Staff 12-045 D Project A15CDA: Please see Attachment Staff 12-045 E Project A15EDA: Please see Attachment Staff 12-045 F Project A15NDA: Please see Attachment Staff 12-045 G

Project AMRP6DCA: Please see the response to Staff 10-004 for the project approval documentation for this project.

Project C14002: Please see Attachment Staff 12-045 H
Project C15ETT: Please see Attachment Staff 12-045 I
Project R15EDA: Please see Attachment Staff 12-045 J
Project R15HLDR: Please see Attachment Staff 12-045 K
Project R15NDA: Please see Attachment Staff 12-045 L
Project R15RPR: Please see Attachment Staff 12-045 M
Project GX9R for 2015: Please see Attachment Staff 12-045 N

2016 Projects:

Project R15WDA: Please see Attachment Staff 12-045 O

Project A13S01: Please see response to OCA 6-094 for the project approval documentation for this

project

Project A13S02: Please see Attachment Staff 12-045 P
Project A15N01: Please see Attachment Staff 12-045 Q
Project A16X04: Please see Attachment Staff 12-045 R
Project R15CTC: Please see Attachment Staff 12-045 S
Project R15DBR: Please see Attachment Staff 12-045 T
Project R15RDA: Please see Attachment Staff 12-045 U
Project R15SDA: Please see Attachment Staff 12-045 V
Project R15SSAI: Please see Attachment Staff 12-045 W
Project R16ETT: Please see Attachment Staff 12-045 X
Project DL9R for 2016: Please see Attachment Staff 12-045 Y
Project DS9RE for 2016: Please see Attachment Staff 12-045 Z
Project GM9R for 2016: Please see Attachment Staff 12-045 AA
Project GX9R for 2016: Please see Attachment Staff 12-045 AB
Project VEHICLES for 2016: Please see Attachment Staff 12-045 AC

2017 Projects:

Project A14N21: Please see Attachment Staff 12-045 AD

Project A14S08: Please see response to OCA 6-097 for the project approval documentation for this project. Attachment Staff 12-045 AE contains an excerpt from the Project Approval Committee related to this project.

Project A16C01: Please see Attachment Staff 12-045 AF
Project A16C02: Please see Attachment Staff 12-045 AG
Project A16C05: Please see Attachment Staff 12-045 AH
Project A16N03: Please see Attachment Staff 12-045 AI
Project NHRMTR17: Please see Attachment Staff 12-045 AJ
Project R15TDA: Please see Attachment Staff 12-045 AK
Project R17CTC: Please see Attachment Staff 12-045 AL
Project DL9R for 2017: Please see Attachment Staff 12-045 AM
Project DS9RE for 2017: Please see Attachment Staff 12-045 AN

Project GX9R for 2017: Please see Attachment Staff 12-045 AO

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Project IT6DWANA for 2017: Please see Attachment Staff 12-045 AP

2018 Projects:

Project 18707: Please see Attachment Staff 12-045 AQ

Project A14W02: Please see response to OCA 6-098 for the project approval documentation for this project. Attachment Staff 12-045 AR contains an excerpt from the Project Approval Committee related to this project.

Project A16C09: Please see response to OCA 6-099 for the project approval documentation for this project. Attachment Staff 12-045 AS contains an excerpt from the Project Approval Committee related to this project.

Project A16C10: Please see response to OCA 6-100 or the project approval documentation for this project. Attachment Staff 12-045 AT contains an excerpt from the Project Approval Committee related to this project.

Project A16E06: Please see Attachment Staff 12-045 AU

Project A16S01: Please see Attachment Staff 12-045 AV

Project A17C17: Please see Attachment Staff 12-045 AW

Project A17E09: Please see Attachment Staff 12-045 AX

Project A17N24: Please see Attachment Staff 12-045 AY

Project A16E16: Please see Attachment Staff 12-045 AZ

Project A18VRP: Please see Attachment Staff 12-045 BA

Project A07X45 for 2018: Please see Attachment Staff 12-045 BB

Project C03CTV for 2018: Please see Attachment Staff 12-045 BC

Project GX9R for 2018: Please see Attachment Staff 12-045 BD

Project IT6DWANA for 2018: Please see Attachment Staff 12-045 BE

Attachment Staff 12-045 BF contains the 2015 through 2018 year-end capital project reports which are used as project reviews performed by the Investment Planning and NH Operations groups. There were no projects that required review by the Eversource Enterprise Risk Management group or Subsidiary Board approval.

Attachment Staff 12-045 BG contains the NH Distribution Project Approval Committee monthly meeting minutes.

Projects 15703, AMRP6DCA, C14002, and 18707 are considered Shared Services projects.

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Minutes 08-16-2018 Meeting

Project Approvals

- 21. A14W02 Daniel/Webster Project P. Pinault APPROVED FOR \$19,690,419 WITH COMMENTS.
 - Supplement Header section "Plant Class", change "Distribution" to "Distribution Substation"; "O&M Expenses", change "N" to "N/A".
 - Lessons Learned section add in to follow the Constructability Checklist. Obtain the checklist from Ken Case.
 - ACTION ITEM send final approved Lessons Learned to Transmission Project Solutions team for the EPAC file. (Note: EPAC Committee agreed that this action item will not prevent routing updated Supplement to Investment Planning.)

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Attendance

EPAC Role	Required Members	In-Person	Phone	Voting Designee
Co-Chair	George Wegh		\boxtimes	
Co-Chair	John Dipaola-Tromba		\boxtimes	
EPAC Administrator	Farah Omokaro	\boxtimes		
Drainata	Tim Revellese		\boxtimes	
Projects	Alexis Ané			Ken Roberts
Project Controls	Raymond Gagnon	\boxtimes		
	James Eilenberger			
	John Case			Chris Soderman
Engineering	John Zicko			Paul Melzen
Engineering	Robert Andrew		\boxtimes	
	Rod Kalbfleisch			
	Swapan Dey			
Siting & Compliance	Robert Clarke		\boxtimes	
Investment Planning	Leanne Landry			Neil Helfand
Integrated Planning & Scheduling	Diana Mahoney			
Compliance	Vicki O'Leary		\boxtimes	
Transmission	Barry R. Bruun			
/System Ops	Brian Dickie			
	Anthony A. Anzalone			
	Rob Bouthiller			Marissa Flynn
Field One 9 Field Fraincesing	Wayne Gagnon			
Field Ops & Field Engineering	Marc Geaumont			Carol Burke
	Mark Blanchard			
	Saurabh Sahni			

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EPAC Role	Required Attendees	In-Person	Phone
Siting	Kate Shanley		
Siting & Construction Services	Michelle Gallicchio		
Licensing & Permitting	Mark Gardella		
Procurement	Craig Dikeman		
Procurement	Fran O'Keefe		
	Daniel Foley		\boxtimes
Substation Engineering	Paul Melzen		\boxtimes
	Thelma Brown		\boxtimes
	Dennis Western		
Protection & Controls	John Babu	\boxtimes	
	Stuart Hollis		
	Chris Soderman		\boxtimes
	Mohsen Sahirad		\boxtimes
T Line & Civil Engineering	Jim Bodkin		\boxtimes
	Jamil Abdullah		
	Donald Dibuono		
Transmission Capital Program	Glenn Herman		\boxtimes
Budget & Investment	Peter Neidhardt		
Outage & One Planning	Oswaldo Ortega		
Outage & Ops Planning	David Cloutier		
Standards	Jen Hebsch		

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Eversource Project Funding Authorization Process Summary

Eversource's Project Management process follows several processes and procedures based on the widely accepted Project Management Institute's ("PMI") best practice Project Management Body of Knowledge ("PMBoK"). This process utilizes the five phases of Project Management which are:

- 1. Initiate
- 2. Plan
- 3. Executing
- 4. Controlling
- 5. Closing

During each of these phases, project funding authorizations may be requested as the scope is identified and refined. As such, there are several types of estimates used by Eversource depending upon the stage of a capital project.

- Order of Magnitude Cost Estimate these are used as a placeholder for evaluating alternatives and identifying preferred solutions for capital projects. This type of estimate is used early within the initiation phase of the project in which high level cost comparisons of alternative projects are needed. These estimates have an accuracy range of -50% and +200%.
- Conceptual Cost Estimate these are used for budget purposes for capital projects. This type of estimate is used in the initial engineering phase of the project (in preparation for Eversource Project Approval Committee "EPAC" authorization). This estimate will be completed to assist the Solution Design Committee in determining the preferred alternative. These estimates have an accuracy range of 25% and +50%.
- Planning Cost Estimates are used to detail the cost of a project used in the planning phase of the project. These estimates are usually -/+25%.
- Engineering Cost Estimate these are used to detail the cost of a project used in the approval and construction phase of the project. This estimate is used when at least 70-90% of the engineering is complete. Often times the pricing of major materials is known at this stage of a project. These estimates have an accuracy range of -10% to +10%.
- Construction Cost Estimate Used to detail the cost of a project used in construction phase of the project. Service contracts for construction, testing and commissioning are generally in place at this stage. These estimates have an accuracy range of -10% to +10%.
- Actual Final Cost actual costs incurred at project completion (after closeout).

The need for revised project funding authorization is part of the process throughout the project lifecycle. Below are a few examples of funding requests during the project lifecycle.

Initiate

Initiating a new project within Eversource typically involves the communication of a need from System Planning (load driven, compliance with standards, etc.) or Asset Management (aging infrastructure, equipment obsolescence, etc.). Initially, there may be several potential solutions to

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address a need and conceptual engineering may be required to develop these options to a point where the alternatives can be evaluated. As part of the process in this stage, a site visit is conducted with high level stakeholders to begin to prepare conceptual plans/drawings to obtain approval for the project. Initial cost estimates are also developed to include preliminary engineering and the initial project planning cost. Consider this "seed" money to get the correct resources in place to begin the Planning Phase of the project. This would include consideration for hiring external resources if Eversource resources cannot handle the work load.

Once a preferred solution is selected, further conceptual engineering and analysis may be required to identify certain project specific risks e.g. likelihood of encountering subsurface ledge or other obstructions during excavation, contaminated soils, etc. At each stage of project development, additional detail is defined, risks are uncovered and where appropriate, mitigated. In parallel with the solution definition, the project's estimated cost is developed and refined to a greater level of accuracy. During conceptual engineering, additional funding approval may be required to assess alternatives and, in some cases, approve physical work, for example soil borings, test pits and soil analysis. This is required to develop the preferred solution to a point where full project funding approval can be requested. Once a preferred solution is identified, Eversource's Solution Design Committee evaluates the proposed solution against the viable alternatives and where appropriate recommends moving forward with project funding approval through EPAC. In other cases, the SDC may request additional work to develop other alternatives or refine the preferred alternative prior to approval.

A Project Authorization Form (PAF) is generated at this stage to obtain project approval from upper Management. The PAF includes an Executive Summary, Project Description, Overall Justification along with Alternatives Considered and a Preliminary Cost Estimate. The Cost Estimate is generated using recent completed projects with a similar scope. It also assumes pricing for known materials and service cost.

Plan

Once project approval is obtained, the Planning Stage begins. The outcome of this stage is to prepare a guide through which the project travels. During this stage, several stake holders, including Eversource Engineering, conduct a site visit to begin developing the detailed scope document for the project. Among other things, the scope document is used to prepare bid documents for outsourcing engineering (or as a road map for internal engineering) as well as additional services as may be required. The contractors that are chosen for Request for Proposals (RFP) are selected by the project team and Eversource Procurement Department considering past experience and cost and schedule track records. When the proposals are received, they are reviewed by several members of the project team, including Eversource Engineering and the Procurement Department. Depending on the complexity of the project, the proposals can vary greatly from the Preliminary Cost Estimates provided in the PAF. Once the engineering resource is selected, 30% design packages are generated and used to obtain RFP's for major materials, Lead Commissioning Engineer (LCE) and several other contractors as needed. During engineering, many unknowns begin to come to light and resource requirements are better understood which assist in the RFPs.

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Historically, full project funding approval was provided based on the conceptual or planning cost estimate, but in recent years Eversource has transitioned to a staged project sanctioning approach with initial funding provided to develop the detailed engineering and risk mitigation. Once the scope is known in detail, full funding approval is requested which allows for the purchase of engineered equipment with long lead times and the placing of contracts for construction, testing and commissioning, etc. This stage-gate approval approach creates more certainty over actual final cost because the engineering is completed and firm pricing for major materials and when appropriate construction, test and commissioning is available.

Even with the staged approval process, during project execution it is not unusual for unforeseen issues to materialize. These issues include finding buried objects not identified on drawings, changes to approach based on feedback from local stakeholders, storms, equipment failures, emergent outage constraints, etc. To respond appropriately, the Project Manager may need to commit additional resources, identify alternative ways of working, etc. These deviations from the original scope can also affect the project cost estimate.

After receipt of all proposals, the known project costs are compared to the authorized full funding project estimate. If the pricing is in line with the full funding authorization, no requests are made for additional funding. However, if the cost exceeds the initial estimate, a Supplemental Request Form (SRF) may be required for supplementary funding. In circumstances where the project direct costs are forecast to exceed the authorized direct funding by 10% or more, Eversource's project controls require the Project Manager to request supplemental project approval by returning to EPAC and explaining the need for additional project resources be that additional internal labor, outside services, or materials.

When the planning is well underway, and the requested contracts are implemented, the Executing phase begins. During this phase, the work that was planned is carried out. In the early part of this stage, environmental testing is conducted to determine if there are any environmental hazards that need to be remediated. This is normally added as a risk in the PAF or SRF and a dollar value is applied. However, there are some instances where the amount of remediation is much more extensive than anticipated and the costs are much higher than identified as part of the risk. This may also be the case when civil and electrical construction is underway, and unknowns arise. Another submission of the SRF may be needed to capture these costs as well.

Execute/Control

During the Executing Phase, the cost & schedule controls are put in place as part of the Controlling Phase. Weekly Project Meetings are held to discuss the construction progress and the remaining work to be done. From time to time, the weather, as well as storm related outages, can cause schedule delays. The outcomes of these delays can result in change orders from the contractor to cover additional time/resources needed to complete the projects. These change orders are reviewed by the project team to negotiate pricing and confirm that the request is indeed out of scope. Monthly cost meetings are also conducted which include the Eversource Project Management and Upper Management teams. During these cost meetings, the cost controls are discussed, reviewed and recommended corrective actions are implemented as needed. If, at any

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time during the Executing Phase, the cumulative effect of project change or contract change orders results in a variance of 10% or greater in direct project cost, then an additional Supplemental Funding Request would be required.

No supplemental request should be required during the Closing Phase.

Indirect Project Costs

All Eversource projects are assessed indirect costs from several overhead categories. These include, but are not limited to:

- Internal labor overheads (employee benefits, etc.)
- Stores (applied to materials ordered through our stock room)
- Engineering and Supervision (E&S)
- Misc. Distribution Expense (MDEC)
- Administrative (AS&E)
- AFUDC (cost of money)

Each of these overheads is assessed at a rate defined by the corporation and is applied to the appropriate category of direct costs charged to the project. These rates vary over time and are adjusted with some frequency.

Indirect costs are included in each type of project estimate and are based upon the rates at that time and the categories of direct costs anticipated at that time.

Variations in the value of indirect costs can come from four basic sources:

- 1. Variation in overhead rate generally more of an influence on long duration projects
- 2. Increase (or decrease) in direct project costs often seen as the project scope becomes more well defined and direct costs are known. This can be the result of increase in project scope or higher than expected contract service costs due to market conditions.
- 3. Change from internal resources to contracted (external) resources or vice versa this would impact the internal labor overheads which are significant, but often comes with an increase or decrease to the direct cost for external labor, ie. true cost of internal labor shows up as a direct labor cost and a labor loader, whereas external labor does not get a labor loader (we are billed a "loaded" rate by vendors). Both will be assessed other applicable overheads such as E&S, MDEC and AS&E.
- 4. Change from owner furnished to contractor furnished materials contractor furnished materials will not be assessed the Stores overhead, though usually include a contractor markup. Again, not a large overall difference in project cost, but potentially a noticeable variation in indirect costs.

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Though variations (increases) in indirect project costs do not drive the need to secure additional project funding for distribution projects, they do contribute to overall project cost and are included in monthly project forecasting and reporting.

The E&S rate tends to be the most volatile and can result in large variations in overall indirect cost

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REAL ESTATE TRANSACTION AUTHORIZATION FORM (RETA)

ACQUISITION	DISPOSITION		
Company: Public Service Company of New Hampshire Requestor: Pat Pinault/Thelma Brown Cost Area: 73T Charge Acctg: FWO: A14W0202, LND00	Date Prepared: 7/13/2015 Prepared by: Jennifer Ducharme Contact Info Phone: 603-634-2305 Email: jennifer.ducharme@eversource.com		
SALIENT FACTS			
Property Address: 20 Carr Street			
City/Town: Franklin	State: NH		
Use: residential Size (Acres): 0.54 acr			
Other Appurtenances / Improvements: N/A	Gross Buriaring Area. 25 ACT Management Tollic		
Purpose of Transaction: Construction of the Daniel S/S at	outting the Webster Street S/S		
Rights Reserved (if any): None	diality the President effect of		
Regulatory Approval (if required for CL&P &	& VCS)·N/A		
CTEEP MOU Property (if required CT): N/A	£ 105)		
FINANCIAL			
Sale Price: \$\frac{159,900.00}{}			
Est. Environmental Costs: \$6,000	<u></u>		
Other Est. Transaction Costs: \$ 1,500.00			
Net Book Value: \$ N/A			
Est. Net Gain/Loss: \$ 167,400.00			
Deposit: \$\frac{15,900.00}{}			
Appraised Value (if required): \$ N/A			
Est. Annual RE Taxes: \$ 3,456.54 (2014)			
TERMS & CONDITIONS			
Counterparty Name: Meloney P. Goodsell			
Estimated Closing Date: 90 days from P&S	A Maria Constitution for all		
Due Diligence / Approval Terms:Title, Survey and ES	A Phase 1 only.		
Environmental Contingencies: Phase 1 to be complete	d.		
A copy of this authorization will be sent to:			
X Budgeting and Forecasting X Fixed Ass	set Accounting X Environmental		
	2000 Troopering 2 Divisormental		
\underline{X} Tax \underline{X} Legal			

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APPROVALS			Tage 2 01 +
Title / Limits	Name	Signature	Date
Supervisor, Real Estate or ROW (Up to \$500,000)	M. Charamella, T. Powers or T. Feuersanger	Just for	1/14/15
Manager, Real Estate or ROW (Up to \$1M)	S. Giuliano or C. Caridad	84	7/14/5
Director, Real Estate & Property Management (Up to \$4M)	S. Madhusudhan		
Vice President, Supply Chain, Environmental Affairs and Property Management (Up to \$8M)	E. Angley		
Executive V.P. & CAO (Transactions up to \$15M)	D. McHale		
President & Chief Executive Officer (Up to \$25M) or Subsidiary Board (Transactions over \$25M)	T. May or Subsidiary Board		

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TRANSACTION SUMMARY / JUSTIFICATION

I. Project Description

Distribution engineering needs to Build a new Distribution substation on the same property as the existing Webster Substation with (2) 44.8 MVA Transformers, (2) high side circuit switchers, (2) low side breakers, (1) bus tie breaker, (3) feeder circuits and (2) capacitor banks. This property is being purchased in order to facilitate the construction of this new substation.

This new substation will be known as the Daniel substation.

II. Justification

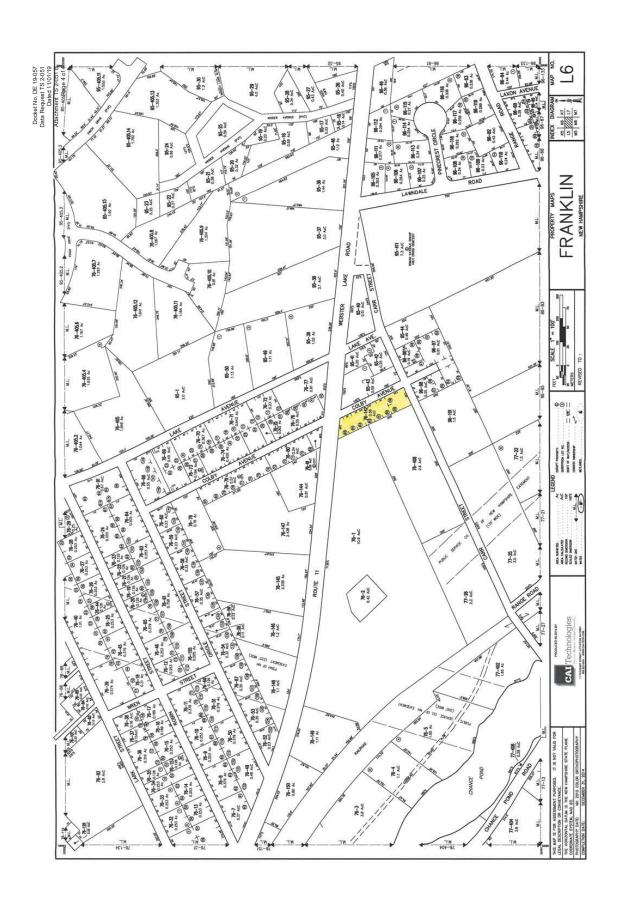
In order to complete the construction of the new Daniel substation, 2 properties in the vicinity must be acquired. This is one of the key properties needed in order to allow for the construction and permitting of the new substation.

This property was already on the market for sale and was under contract with another buyer. Once the prospective buyer heard of the substation expansion plans, they backed out of the deal and Eversource was able to purchase the property. Eversource offered the purchase price for the property, which is in line with area comparable values.

III. Environmental Comments

ESA Phase 1 to be completed, no known environmental issues.

IV. Plan of Property (See Attached)



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REAL ESTATE TRANSACTION AUTHORIZATION FORM (RETA)

ACQUISITION	DISPOSITION			
Company: Public Service Company of New Hampshire Requestor: Pat Pinault/Thelma Brown Cost Area: 73T Charge Acctg: FWO: A14W0202, LND00	Date Prepared: 7/14/2015 Prepared by: Jennifer Ducharme Contact Info Phone: 603-634-2305 Email: jennifer.ducharme@eversource.com			
SALIENT FACTS Property Address: 30 Carr Street City/Town: Franklin Use: residential Size (Acres): 2.588 ac Other Appurtenances / Improvements: N/A Purpose of Transaction: Construction of the Daniel S/S at Rights Reserved (if any): None Regulatory Approval (if required for CL&P & CTEEP MOU Property (if required CT): N/A FINANCIAL Sale Price: \$145,000.00 Est. Environmental Costs: \$6.000 Other Est. Transaction Costs: \$1.500.00 Net Book Value: \$N/A Est. Net Gain/Loss: \$152,500.00 Deposit: \$14,500.00 Appraised Value (if required): \$N/A Est. Annual RE Taxes: \$2,687.52 (2014 - TERMS & CONDITIONS Counterparty Name: Linda F. Dumond Estimated Closing Date: 20 days after all contingencies hav Due Diligence / Approval Terms: Title, Survey and ESA	& YGS): N/A but with veteran exemption) ve been met, with 6 month allowance on contingencies.			
Environmental Contingencies: Phase 1 to be completed	d.			
A copy of this authorization will be sent to:				
X Budgeting and Forecasting X Fixed Ass X Tax X Legal	set Accounting X Environmental			

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APPROVALS			
Title / Limits	Name	Signature	Date
Supervisor, Real Estate or ROW (Up to \$500,000)	M. Charamella, T. Powers or T. Feuersanger	an Hower	1/14/15
Manager, Real Estate or ROW (Up to \$1M)	S. Giuliano or C. Caridad	34-	7/14/15
Director, Real Estate & Property Management (Up to \$4M)	S. Madhusudhan		
Vice President, Supply Chain, Environmental Affairs and Property Management (Up to \$8M)	E. Angley		
Executive V.P. & CAO (Transactions up to \$15M)	D. McHale		
President & Chief Executive Officer (Up to \$25M) or Subsidiary Board (Transactions over \$25M)	T. May or Subsidiary Board		

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TRANSACTION SUMMARY / JUSTIFICATION

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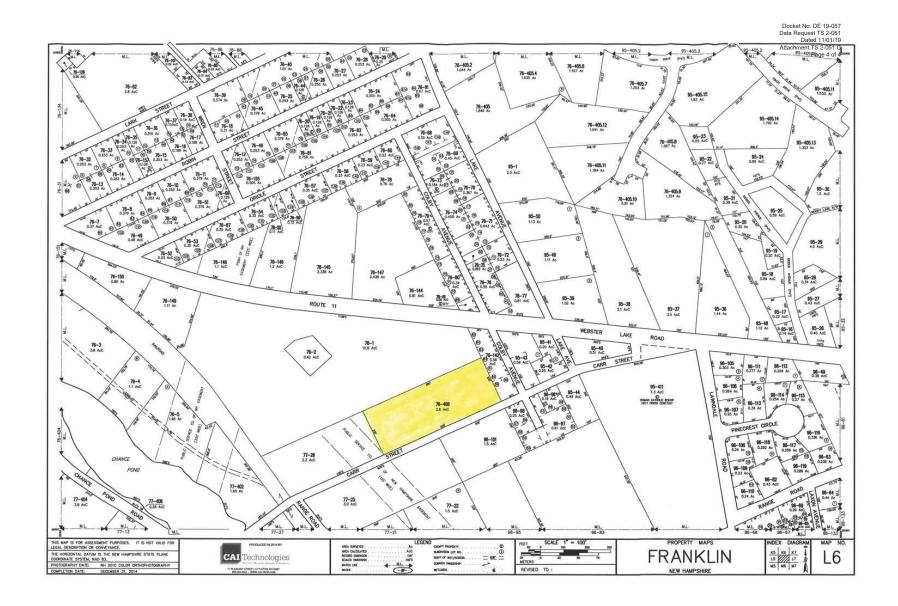
In order to complete the construction of the new Daniel substation, 2 properties in the vicinity must be acquired. This is one of the key properties needed in order to allow for the construction and permitting of the new substation.

While this property was not listed for sale, we approached the current owners with comparable sales figures for the area, as well as the assessed value. The comparable sales show the property value to be between \$140,000-\$155,000.

III. Environmental Comments

ESA Phase 1 to be completed, no known environmental issues.

IV. Plan of Property (See Attached)



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PURCHASE AND SALE AGREEMENT

PURCHASE AND SALE AGREEMENT (this "Agreement") dated the Aday of July, 2015, by and between **Linda F. Dumond**, single, of P.O Box 188, Canaan, New Hampshire 03741, ("Seller"), and **Public Service Company of New Hampshire d/b/a Eversource Energy**, a New Hampshire corporation, having its principal offices at 780 North Commercial Street, Manchester, New Hampshire 03101 ("Purchaser").

WHEREAS the Seller is the owner of certain real estate hereinafter described located in Franklin, New Hampshire; and,

WHEREAS the Seller desires to sell said real estate, and Purchaser desires to purchase said real estate, at the price and on the terms and conditions hereinafter set forth.

NOW THEREFORE, in consideration of the mutual covenants contained herein, the parties agree as follows:

- 1. <u>SALE AND PURCHASE</u>: Seller shall sell and the Purchaser shall purchase, upon the terms and conditions and subject to satisfaction of the contingencies hereinafter stated in this Agreement, a certain parcel of land, with the buildings thereon, containing 2.588 acres, more or less, located at 30 Carr Street, in the Town of Franklin, in the County of Merrimack and State of New Hampshire, being a portion of the Seller's land identified as Town of Franklin Tax Map 76, Lot 408 (the "Property). The Property being the same premises conveyed to Roger B. Dumond and Linda F. Dumond by deed of Edward J. Buczynski, dated May 25, 1977, recorded at the Merrimack County Registry of Deeds in Book 1295 Page 679. See death certificate of Roger B. Dumond recorded at Book 1907, Page 465 of the Merrimack County Registry of Deeds.
- 2. <u>PURCHASE PRICE</u>. The Purchaser shall pay the Seller a purchase price for the Property of One Hundred Forty Five Thousand and no/100 Dollars (\$145,000.00) (the "Purchase Price"), subject to any adjustments and credits as provided in this Agreement. The Purchase Price shall be paid as follows:
- (a) The sum of \$9,500.00, as an earnest deposit upon execution of this Agreement by the Purchaser and Seller, the receipt of which is hereby acknowledged by the undersigned escrow agent, said deposit to be held in escrow and disbursed out of escrow by Commonwealth Land Title Insurance Company, Two Bedford Farms Drive, Bedford, New Hampshire 03110, as escrow agent, pursuant to the terms of this Agreement and the attached Supplemental Escrow Agreement, with said deposit to be credited to the Purchase Price at closing.
- (b) The sum of \$5,000.00, as a non-refundable earnest deposit upon execution of this Agreement by Purchaser and Seller, to be paid directly to Seller. Said deposit to be credited to the Purchase Price at closing.
- (c) The balance of the Purchase Price by bank or certified check or other immediately available funds acceptable to Seller at time of closing.

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- 3. <u>TITLE</u>. (a) The Purchaser shall be responsible for and bear all costs for title examinations, abstracts, title insurance, or other inspections of the title or matters affecting title to the Property that the Purchaser may desire or require.
- (b) The Purchaser shall have a period of ninety (90) days from the date of this Agreement to examine the title to the Property (the "Initial Title Examination Period") and obtain a preliminary commitment from a title insurance company acceptable to Purchaser, evidencing satisfactory title to the Property vested in the Seller as of the effective date thereof, and pursuant to which such title insurance company agrees to issue to Purchaser the standard American Land Title Association (ALTA) Form B Owner's Policy of Title Insurance, in an amount not less than the Purchase Price, at the usual premium and subject only to the standard policy exceptions and to the exceptions listed under Section 4 below. In the event that the Purchaser's examination of title reveals any lien, encumbrance or defect in title which renders title to the Property unmarketable, unsatisfactory or is otherwise objectionable to Purchaser and Purchaser's title insurer, Purchaser shall, by not later than the end of the Initial Title Examination Period, notify the Seller in writing of all such objected to liens, encumbrances and defects. To the extent the preliminary commitment obtained by Purchaser during the Initial Title Examination Period does not include incorporation of the ALTA land title survey of the Property which Purchaser has the right to obtain under Section 9 hereof, Purchaser shall have one (1) additional ninety (90) day period after the Initial Title Examination Period (or such additional time as shall run concurrently with any extension of the time period to obtain the survey under Section 9) to obtain a revised title commitment including incorporation of such survey, and to notify the Seller in writing of any new or additional objected to liens, encumbrances or title defects based on such revised title commitment.
- (c) Seller agrees to use reasonable and diligent efforts, at Seller's sole cost and expense, to clear or otherwise cure prior to closing, to the reasonable satisfaction of Purchaser and Purchaser's title insurer, any title defect, lien or encumbrance objected to by Purchaser and such title insurer. Any title matter or issue arising under this Agreement which is the subject of a title standard or practice under the then current New Hampshire Bar Association Title Examination Standards shall be governed by such title standard or practice to the extent applicable. Unless otherwise mutually agreed by the parties, Purchaser shall have no obligation to close unless and until Seller has performed Seller's obligations under this provision. Purchaser may, but shall have no obligation to, agree to a reasonable extension of the closing date to allow Seller additional time to perform Seller's obligations under this provision. Purchaser shall have the option to terminate this Agreement if Seller refuses to or, if despite Seller's reasonable and diligent efforts, Seller is unable to clear or otherwise satisfactorily cure any title objection prior to closing or any extension of the closing agreed to by Purchaser; in the event of such termination, the escrow agent shall return the Purchaser's deposit paid under Section 2(a) to Purchaser and all obligations of the parties to each other under this Agreement shall be terminated.
- (d) Seller shall have the right to use all or any portion of the Purchase Price payable to Seller at closing to eliminate any mortgage, lien or other encumbrance affecting the title to the Property which may be removed or satisfied by the payment of a liquidated sum of money.
- (e) Seller agrees after the date of this Agreement and prior to closing that Seller shall not sell, lease, encumber or otherwise transfer any part of the Property, or any interest therein, or consent to

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any lien or encumbrance thereon, and shall not enter into any agreements with third parties regarding the Property which will be binding on the Purchaser without the Purchaser's prior written consent after full disclosure, and which consent may be withheld in Purchaser's sole reasonable discretion.

- (f) Any title references in this Agreement are intended only to indicate the source of Seller's title, and shall not be deemed or construed to define, limit or change the Property, or the title intended or required to be conveyed under this Agreement.
- 4. <u>DEED</u>. Seller shall transfer marketable title to the Property to Purchaser by warranty deed, free and clear of all mortgages, liens, encumbrances, easements, leases, covenants and restrictions, subject only to the following:
- (a) Any lien for real estate taxes for the then current year as are not yet due and payable as of the date of closing.
- 5. <u>CLOSING ADJUSTMENTS</u>. Seller and Purchaser shall each pay one half of the New Hampshire real estate transfer tax. Recording fees for recording the deed and ALTA survey plan, if required, shall be paid by Purchaser. Seller shall pay the fees for recording all documents necessary to permit Seller to convey title to the Property as required under Section 4.
- 6. <u>CLOSING DATE</u>. Subject to the other terms of this Agreement, the closing shall be held at the Merrimack County Registry of Deeds, in Concord, New Hampshire, or at such other location as the parties may mutually agree, on or before the date which is twenty (20) days after the date all contingencies to Purchaser's obligation to purchase have been satisfied or expressly waived in writing by Purchaser. Notwithstanding, the parties may for their mutual convenience agree to an escrow closing, whereby the transactional and other closing documents required from each of the parties may be delivered to the escrow agent for closing, recording and disbursement.
- DUE DILIGENCE INSPECTIONS CONTINGENCY. (a) On and after the date of this Agreement, Purchaser and Purchaser's designees (including without limitation surveyors, engineers and consultants) are hereby granted and shall have full access to the Property from time to time, as and when Purchaser shall deem necessary but with prior notice to Seller of no less than one (1) day, for the purpose of making, at the sole cost and expense of Purchaser, such environmental, surveys, examinations, inspections, tests, site assessments and analyses of the condition of the Property (including without limitation soil borings, wetlands delineations, groundwater testing and other environmental sampling and testing, if any), to determine the existence of any environmentally hazardous activities, wastes, materials, substances or contaminants on the Property, and the suitability and engineering design parameters and constraints of the Property for Purchaser's intended use and development of the Property, as Purchaser shall deem necessary or desirable ("Inspections"). Seller shall fully cooperate with Purchaser in affording such access over the Property as may be reasonably requested by Purchaser or Purchaser's designees to access the Property to carry out the Inspections. Upon the completion of such Inspections and all related activities, Purchaser shall promptly restore the Property to a condition substantially similar to its condition prior to the start of such activities. Purchaser further agrees to indemnify Seller and hold Seller harmless from any liability, loss, cost or expense for personal injury or property claims or damage resulting directly from, or occurring during, the Inspections and all related activities on the Property by Purchaser or Purchaser's designees.

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- (b) Purchaser may terminate this Agreement upon written notice to Seller not later than ninety (90) days from the date of this Agreement (which period may be extended, at Purchaser's sole election if needed to complete its due diligence inspections, for one (1) additional consecutive period of ninety (90) days, upon written notice to Seller), if the results from any of Purchaser's Inspections indicate that an environmental condition or other site condition exists or may exist at, on or associated with the Property which may interfere with or adversely affect or restrict the development and use of the Property contemplated by Purchaser and this Agreement, or may result in the imposition on Purchaser of liabilities in connection with such conditions, or any result of any of such Inspections is otherwise not satisfactory to Purchaser in Purchaser's sole discretion. Upon termination pursuant to this provision, the escrow agent shall return the Purchaser's deposit paid under Section 2(a) to Purchaser and all obligations of the parties to each other under this Agreement shall be terminated.
- 8. <u>CONDITION OF PROPERTY</u>. (a) Seller represents to Purchaser that Seller has no knowledge of any adverse environmental or other site conditions on, at or associated with the Property, which has not been disclosed to Purchaser by Seller prior to the execution of this Agreement.
- (b) To assist Purchaser's due diligence, Seller will make available to Purchaser for inspection and copying, within not more than ten (10) days after the date of execution of this Agreement by Seller, complete copies of all title examination reports, title opinions and title insurance policies in Seller's possession, all written reports, surveys, plans, assessments, data and information in Seller's possession, or available to Seller at minimal cost through any of Seller's engineers, surveyors, experts or consultants, pertaining to the environmental condition of the Property (including environmental site assessments, analyses and reports), wetlands surveys and delineations of the Property, soil tests, soil boring data, water quality monitoring data, surveys and topographical plans of the Property, and any engineering studies or reports ("Seller's Reports"), it being understood that it is the intent of this provision on the part of Seller to provide Purchaser with unrestricted access to any and all such information about the Property in Seller's possession or reasonably available to Seller for the sole purpose of effecting this Agreement, and no other. It is understood that Seller's Reports have been or are to be provided for Purchaser's information only, and Seller shall incur no liability and makes no warranties to Purchaser or others with respect to the scope of Seller's Reports, the accuracy or thoroughness thereof, or any of the information contained therein, and Purchaser hereby agrees to indemnify and hold Seller, and the preparer of any reports, harmless from and against any and all claims with regard to the accuracy or completeness of or otherwise related to Seller's Reports. Purchaser acknowledges that, except to the extent they are a matter of public record, Seller's Reports are deemed to be confidential and proprietary, and shall not disclose Seller's Reports to any third party; provided however, that Purchaser shall be permitted to provide copies of the Seller's Reports to its surveyors, engineers and consultants in connection with its Inspections of the Property, subject to the same restriction of confidentiality and purpose.
- 9. <u>POSSESSION AT CLOSING</u>. At time of closing, Seller shall be obligated to deliver possession of the Property to Purchaser vacant and free of any tenants or other occupants, and free and clear of all of Seller's personal belongings and property on or at the Property, except as otherwise may be specifically provided in this Agreement. All fixtures and appliances at the Property shall,

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unless otherwise provided in this Agreement, remain with the Property and be included in the sale, and shall become the property of Purchaser at time of closing.

- (a) Not later than 15 days prior to closing, Seller shall be entitled, at Seller's sole expense, to remove the following fixtures and/or appliances from the Property: kitchen cabinets, dishwasher, washing machine, clothes dryer. If not so removed by Seller, these items shall be included in the sale of the Property to Purchaser, and shall become the property of Purchaser at time of closing.
- SURVEY CONTINGENCY. Purchaser's obligation to purchase the Property is contingent upon Purchaser obtaining, at Purchaser's sole cost and expense, a boundary survey of the Property by a registered professional land surveyor, meeting applicable ALTA land title survey standards as specified by Purchaser and Purchaser's title insurer, with results confirming the configuration, acreage and dimensions of the Property as described in Section 1 above, and otherwise satisfactory to Purchaser and its title insurer in Purchaser's sole discretion. Purchaser shall have a period of ninety (90) days from the date of this Agreement (which period may be extended, at Purchaser's sole election if needed to complete its survey work, for one (1) additional consecutive period of ninety (90) days, upon written notice to Seller) to obtain said survey. Purchaser agrees to proceed in good faith and with due diligence to obtain said survey. Seller agrees that Purchaser and Purchaser's surveyors shall have full access to the Property from time to time to perform all work necessary to prepare and complete said survey for the purposes of this Agreement, and Seller hereby grants such access. Purchaser may terminate this Agreement upon written notice to Seller within 90 days from the date of this Agreement (or any extensions of such 90 day period as provided above) if the results of the survey are not satisfactory to Purchaser and its title insurer in Purchaser's sole discretion. Upon such termination, the escrow agent shall return the Purchaser's deposit paid under Section 2(a) to Purchaser and all obligations of the parties to each other under this Agreement shall be terminated.
- 11. <u>CLOSING DOCUMENTS.</u> Seller agrees that it will, at closing, deliver to Purchaser the following documents properly executed and in form and content satisfactory to Purchaser and Purchaser's title insurer:
- (a) The warranty deed conveying the Property to Purchaser, in accordance with Section 4 of this Agreement. Purchaser has agreed to provide a draft to Seller for review.
- (b) A Declaration of Consideration and Transfer Tax Form in accordance with New Hampshire Department of Revenue requirements.
- (c) An Affidavit of Non-Foreign Person Status in compliance with Internal Revenue Code Section 1445, if required.
- (d) Other affidavits and documents as may be reasonably required by Purchaser and Purchaser's title insurer, including but not limited to a mechanic's lien and parties in possession affidavit.
- 12. <u>BROKERS</u>. The parties represent to each other that they have involved no real estate agents, brokers or other commissioned agents in this transaction. Each party (the "indemnifying party")

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hereby agrees to indemnify, defend and hold harmless the other party (the "indemnified party") from any and all liability, loss, cost or expense, including reasonable attorneys' fees, damages, liens or judgments incurred by the indemnified party arising from any claim, action, lawsuit or proceeding for commission or other compensation by any real estate agent, broker or other person claiming to have acted for or on behalf of, or under contract or agreement with, the indemnifying party or to otherwise have brought about this transaction. The parties agree that the provisions of this Section 14 shall survive closing as a separate contractual obligation of the parties and shall not be merged in delivery of the deed to Purchaser.

13. <u>NOTICES</u>. Notices permitted or required under this Agreement shall be deemed received upon personal delivery, or upon one (1) business day following pick up by overnight courier or overnight mail delivery service (provided a receipt for delivery is obtained), or three (3) business days following mailing by certified mail, postage prepaid, return receipt requested to:

SELLER: Linda F. Dumond

P.O. Box 188 Canaan, NH 03741

PURCHASER: Public Service Company of New Hampshire

d/b/a Eversource Energy 780 North Commercial Street

P.O. Box 330

Manchester, NH 03105-0330 Attention: Jennifer Ducharme

Either party may by written notice to the other designate a different address for purposes of this provision.

- 14. <u>DEFAULT</u>. (a) In the event Purchaser shall fail to purchase the Property in default of the terms of this Agreement, and provided Purchaser has not cured such default within ten (10) days after written notice of default from Seller, Seller shall have the right to either (i) retain the deposit paid by Purchaser under Section 2(a) as reasonable liquidated damages as Seller's sole and exclusive remedy for the breach hereof; or (ii) to seek specific performance of this Agreement against the Purchaser together with recovery of Seller's reasonable attorney fees and costs for enforcing specific performance.
- (b) In the event Seller shall fail to convey the Property in default of the terms of this Agreement, and provided Seller has not cured such default within ten (10) days after written notice of default from Purchaser, Purchaser shall have the right to either (i) terminate this Agreement by giving written notice to Seller of such termination, in which event the escrow agent shall return to Purchaser the full earnest deposit paid under Section 2(a), and upon such payment all rights and obligations of the parties hereunder shall be terminated, or (ii) to seek to enforce specific performance of this Agreement against the Seller together with recovery of Purchaser's reasonable attorney fees and costs for enforcing specific performance.

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- 15. <u>RISK OF LOSS</u>. Risk of loss or damage to the Property by fire or other casualty until the time of the delivery of the deed by Seller to Purchaser as provided in this Agreement is assumed by and shall remain with Seller.
- 16. <u>CONDEMNATION</u>. (a) Seller shall promptly notify Purchaser in the event that all or any portion of the Property is or is threatened to be taken by any public or private authority under the power of eminent domain or condemnation.
- (b) In the event of a taking as referred to in paragraph (a), Purchaser may either (i) elect to rescind this Agreement, whereupon all obligations of the parties to each other shall terminate and the escrow agent shall return to Purchaser the earnest deposit paid under Section 2(a), or (ii) accept a conveyance of the Property pursuant to the provisions of this Agreement, subject, however, to the condemnation claim, in which event the Purchaser shall pay the full Purchase Price and Seller shall assign Seller's rights in such condemnation claim to Purchaser. Seller shall not enter into any agreement with the condemning authority fixing the final award for such condemnation without the prior written consent of Purchaser.
- 17. <u>COUNTERPARTS</u>. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute but one in the same agreement.
- 18. <u>APPLICABLE LAW</u>. This Agreement shall be construed and enforced in accordance with the laws of the State of New Hampshire.
- 19. <u>BINDING EFFECT AND ASSIGNMENT</u>. Subject to the restrictions on any transfer or assignment as set forth below, the terms and provisions of this Agreement shall be binding on and shall inure to the benefit of the parties' respective heirs, administrators, executors and successors and assigns. Neither party may sell, assign, option or otherwise transfer, in whole or in part, conditionally or unconditionally, any of its rights under this Agreement without the prior written consent of the other, which consent will not be unreasonably withheld or delayed; provided, however, that the consent of the Seller shall not be required for any assignment by Purchaser to a wholly owned subsidiary of Purchaser, or to an affiliate company of Purchaser which is a member company of the Eversource Energy holding company system.
- 20. <u>ENTIRE AGREEMENT</u>. This Agreement constitutes the entire understanding between the parties with respect to the Property. All representations, statements and agreements heretofore made by the parties are merged into this Agreement, which is the full expression of the parties' rights and obligations concerning the Property. No statements, representations, promises or understanding not set forth in this Agreement shall bind the parties unless reduced to writing and signed by both parties. This Agreement may not be changed, modified or amended except by a writing signed by both parties.
- 21. <u>CONFIDENTIALITY</u>. Until the closing and recording of the deed of the Property to Purchaser, this Agreement and all of the terms and conditions hereof shall be treated by the parties as confidential, and shall not be disclosed to any third person or entity, except their respective attorneys, engineers, surveyors, title insurance companies, consultants and mortgagees as may be necessary to

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carry out their respective rights and obligations under this Agreement, or as needed or requested in connection with any permitting approvals as may be required by Purchaser, or as the parties may otherwise mutually agree; provided, however, that redaction of the financial terms of this Agreement may be required in connection with any such disclosure.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

SELLER:

PURCHASER:

Public Service Company of New Hampshire d/b/a Eversource Energy

Salvatore Giuliano

Manager, Real Estate Management

ESCROW RECEIPT

The undersigned acknowledges receipt of \$9,500.00 as the earnest deposit under this Agreement, which is to be held by the undersigned in escrow pursuant to the terms of this Agreement and the attached Supplemental Escrow Agreement.

Commonwealth Land Title Insurance Company

Name: Title:

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SUPPLEMENTAL ESCROW AGREEMENT

Property: Franklin, New Hampshire Tax Map 76, Lot 408, 30 Carr Street

We, the undersigned, do hereby jointly and severally agree that the Escrow Agent, Commonwealth Land Title Insurance Company ("Escrow Agent") shall incur no liability whatsoever in connection with its good faith performance under this Supplemental Escrow Agreement, and do hereby jointly and severally release and waive any claims we may have against Escrow Agent, which may result from its performance in good faith of its function under this agreement, including but not limited to, a delay in the electronic wire transfer of funds. Escrow Agent shall be liable only for loss or damage caused directly by its acts of negligence while performing as Escrow Agent under this Supplemental Escrow Agreement.

The Escrow Agent undertakes to perform only those duties which are expressly set forth in that certain Agreement dated <u>July 29 2015</u>, by and between Linda F. Dumond and Public Service Company of New Hampshire d/b/a Eversource Energy (the "Agreement") and acknowledge that these duties are purely ministerial in nature.

The Escrow Agent shall be entitled to rely upon the authenticity of any signature and the genuineness and validity of any writing received by Escrow Agent relating to this Supplemental Escrow Agreement. Escrow Agent may rely upon any oral identification of a party notifying Escrow Agent orally as to matters relating to this Supplemental Escrow Agreement if such oral notification is permitted thereunder. Escrow Agent is not responsible for the nature, content, validity or enforceability of any of the escrow documents except for those documents prepared by Escrow Agent.

In the event of any disagreement between the parties hereto resulting in conflicting instructions to, or adverse claims or demands upon the Escrow Agent with respect to the release of the Funds or the escrow documents, the Escrow Agent may refuse to comply with any such instruction, claim or demand so long as such disagreement shall continue and in so refusing the Escrow Agent shall not release the escrowed funds (the "Funds") or the escrowed documents (the "Documents"). The Escrow Agent shall not be, or become liable in any way for its failure or refusal to comply with any such conflicting instructions or adverse claims or demands and it shall be entitled to continue to refrain from acting until such conflicting instructions or adverse claims or demands (a) shall have been adjusted by agreement and it shall have been notified in writing thereof by the parties hereto; or (b) shall have finally been determined in a court of competent jurisdiction. In the alternative, Escrow Agent may, but shall not be obligated to, file a suit in interpleader for a declaratory judgment for the purpose of having the respective rights of the claimants adjudicated and may deliver to the court the Funds and Documents.

The Escrow Agent shall be entitled to receive reimbursement as Escrow Agent of documented reasonable attorneys' fees and other documented out-of-pocket expenses incurred by it in the performance of its duties under this Supplemental Escrow Agreement, which shall be paid in equal amounts by Buyer and Seller. If the Escrow Agent's duties and responsibilities are increased beyond the contemplated within this Supplemental Escrow

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Agreement, additional compensation will be allowed as agreed upon in writing by all of the parties hereto. Such additional compensation shall be shared equally by Buyer and Seller. The Escrow Agent may at its sole discretion resign by giving (30) days written notice thereof to the parties hereto. The parties shall furnish to the Escrow Agent written instructions for the release of the Funds and Documents. If the Escrow Agent shall not have received such written instructions within the thirty (30) days, the Escrow Agent may petition any court of competent jurisdiction for the appointment of a successor Escrow Agent and upon such appointment deliver the Funds and Documents to such successor. Costs and fees incurred by the Escrow Agent may, at the option of the Escrow Agent, be deducted from any funds held pursuant hereto. The Escrow Agent neither approves nor disapproves of this transaction, nor does it recommend for or against, nor does it have an opinion as to the legality or validity of the transaction.

If the Funds is at any time attached, garnished, or levied upon under any court order or if the payment or delivery of the Funds is stayed or enjoined by any court order, or if any order, judgment or decree shall be made or entered by any court affecting the Funds, Escrow Agent is authorized, in its sole discretion, to rely upon and comply with the order, writ, judgment or decree. Escrow Agent shall not be liable to any of the parties or to any other person firm or corporation by reason of such compliance even though the order, writ, judgment or decree may be subsequently reversed modified, annulled, set aside or vacated.

Upon making disposition of the Funds in accordance with this Supplemental Escrow Agreement, Escrow Agent shall be deemed fully released and discharged from any and all duties and obligations under this Supplemental Escrow Agreement, without the need that any other documentation be executed by Seller or Buyer.

Escrow Agent shall not be responsible for (i) any fluctuations in the interest rate applicable to any cash held by it pursuant to or by virtue of this Agreement: (ii) the validity, sufficiency, collectability, or legal effect of any instrument deposited with Escrow Agent.

The parties acknowledge that the funds will be deposited in an interest bearing Money Market account at RBS Citizens Bank ("Citizens"). Furthermore, it is understood and agreed by the parties that should Escrow Agent cease to maintain its escrow accounts with Citizens, and establishes its escrow banking relationship with another national banking institution, that said Funds will transferred to a similar interest bearing account at said institution.

Notwithstanding anything contained in this Agreement to the contrary, Escrow Agent has the right (but not the obligation) to require from Seller and Buyer a written release of liability of Escrow Agent, a written authorization to disburse the Funds, or both.

The parties hereto do hereby certify that they are aware that the Federal Deposit Insurance Corporation ("FDIC") coverages apply only to a cumulative maximum amount of \$250,000 for each individual depositor for all of depositor's accounts at the same or related institution. The parties hereto further understand that certain banking instruments such as, but not limited to, repurchase agreements and letters of credit are not covered at all by FDIC insurance.

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Further the parties hereto understand that Escrow Agent assumes no responsibility for, nor will the parties hereto hold Escrow Agent liable for, any loss occurring which arises from the fact that the amount of the above account may cause the aggregate amount of any individual depositor's accounts to exceed \$250,000 and that the excess amount is not insured by the Federal Deposit Insurance Corporation or that FDIC insurance is not available on certain types of bank instruments.

The parties to this escrow acknowledge that the maintenance of such escrow accounts with some depository institutions may result in Escrow Agent being provided with an array of bank services, accommodations or other benefits by the depository institution. Escrow Holder or its affiliates also may elect to enter into other business transactions with or obtain loans for investment or other purposes from the depository institution. All such services, accommodations and other benefits shall accrue to Escrow Agent, and Escrow Agent shall have no obligation to account to the parties to the escrow for the value of such services, accommodations or other benefits.

In the event of any inconsistency between the terms and provisions of the Agreement and this Supplemental Escrow Agreement, the terms and provisions of this Supplemental Escrow Agreement shall control.

Federal I.D. or Social Securit	v Number:	
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[SIGNATURES FOLLOW ON NEXT PAGE]

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IN WITNESS WHEREOF, the parties have executed this Supplemental Escrow Agreement as of ______, 2015.

ESCROW AGENT:

COMMONWEALTH LAND TITLE INSURANCE COMPANY

Name: $\angle I \wedge I \wedge A$

Title: Senior

File: 15 CLT OD49. NH

SELLER:

By: Linda Li Demond

BUYER:

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY

Name: Salvatore Giuliano

Title: Manager, Real Estate Management

REV. 03/14 SUP.ESC.AGREE

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PURCHASE AND SALE AGREEMENT

PURCHASE AND SALE AGREEMENT (this "Agreement") dated the _______ day of ________, 2015, by and between Meloney P. Goodsell, unmarried, of 20 Carr Street, Franklin, New Hampshire 03235, ("Seller"), and Public Service Company of New Hampshire d/b/a Eversource Energy, a New Hampshire corporation, having its principal offices at 780 North Commercial Street, Manchester, New Hampshire 03101 ("Purchaser").

WHEREAS the Seller is the owner of certain real estate hereinafter described located in Franklin, New Hampshire; and,

WHEREAS the Seller desires to sell said real estate, and Purchaser desires to purchase said real estate, at the price and on the terms and conditions hereinafter set forth.

NOW THEREFORE, in consideration of the mutual covenants contained herein, the parties agree as follows:

- 1. <u>SALE AND PURCHASE</u>: Seller shall sell and the Purchaser shall purchase, upon the terms and conditions and subject to satisfaction of the contingencies hereinafter stated in this Agreement, a certain parcel of land, together with the manufactured home thereon (a 2002 Astro Home Manufactured Home, Keystone Model, 28' x 64', Serial Number AS02PAO102259 A/B), containing 0.54 acres, more or less, located at 20 Carr Street, in the Town of Franklin, in the County of Merrimack and State of New Hampshire, being the Seller's land identified as Town of Franklin Tax Map 76, Lot 142 (the "Property"). The Property being the same premises conveyed to Meloney P. Goodsell by deed of Robert J. Rego and Marie A. Rego, dated June 22, 2010, recorded at the Merrimack County Registry of Deeds in Book 3199 Page 1851.
- 2. <u>PURCHASE PRICE</u>. The Purchaser shall pay the Seller a purchase price for the Property of One Hundred Fifty Nine Thousand Nine Hundred and no/100 Dollars (\$159,900.00) (the "Purchase Price"), subject to any adjustments and credits as provided in this Agreement. The Purchase Price shall be paid as follows:
- (a) The sum of \$15,900.00, as an earnest deposit upon execution of this Agreement by the Purchaser, the receipt of which is hereby acknowledged by the undersigned escrow agent, said deposit to be held in escrow and disbursed out of escrow by Commonwealth Land Title Insurance Company, Two Bedford Farms Drive, Bedford, New Hampshire 03110, as escrow agent, pursuant to the terms of this Agreement and the attached Supplemental Escrow Agreement, with said deposit to be credited to the Purchase Price at closing.
- (b) The balance of the Purchase Price by bank or certified check or other immediately available funds acceptable to Seller at time of closing.
- 3. <u>TITLE</u>. (a) The Purchaser shall be responsible for and bear all costs for title examinations, abstracts, title insurance, or other inspections of the title or matters affecting title to the Property that the Purchaser may desire or require.

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- (b) The Purchaser shall have a period of ninety (90) days from the date of this Agreement to examine the title to the Property (the "Title Examination Period") and obtain a preliminary commitment from a title insurance company acceptable to Purchaser, evidencing satisfactory title to the Property vested in the Seller as of the effective date thereof, and pursuant to which such title insurance company agrees to issue to Purchaser the standard American Land Title Association (ALTA) Form B Owner's Policy of Title Insurance, in an amount not less than the Purchase Price, at the usual premium and subject only to the standard policy exceptions and to the exceptions listed under Section 4 below. In the event that the Purchaser's examination of title reveals any lien, encumbrance or defect in title which renders title to the Property unmarketable, unsatisfactory or is otherwise objectionable to Purchaser and Purchaser's title insurer, Purchaser shall, by not later than the end of the Title Examination Period, notify the Seller in writing of all such objected to liens, encumbrances and defects. To the extent Purchaser's notification does not include any matters raised by Purchaser's survey which Purchaser has the right to obtain under Section 9 below, Purchaser shall have the right to obtain a revised title commitment including incorporation of such survey, and to notify the Seller in writing of any new or additional objected to liens, encumbrances or title defects based on such revised title commitment, within the Title Examination Period.
- (c) Seller agrees to use reasonable and diligent efforts, at Seller's sole cost and expense, to clear or otherwise cure prior to closing, to the reasonable satisfaction of Purchaser and Purchaser's title insurer, any title defect, lien or encumbrance objected to by Purchaser and such title insurer. Any title matter or issue arising under this Agreement which is the subject of a title standard or practice under the then current New Hampshire Bar Association Title Examination Standards shall be governed by such title standard or practice to the extent applicable. Unless otherwise mutually agreed by the parties, Purchaser shall have no obligation to close unless and until Seller has performed Seller's obligations under this provision. Purchaser may, but shall have no obligation to, agree to a reasonable extension of the closing date to allow Seller additional time to perform Seller's obligations under this provision. Purchaser shall have the option to terminate this Agreement if Seller refuses to or, if despite Seller's reasonable and diligent efforts, Seller is unable to clear or otherwise satisfactorily cure any title objection prior to closing or any extension of the closing agreed to by Purchaser; in the event of such termination, the escrow agent shall return the Purchaser's deposit paid under Section 2(a) to Purchaser and all obligations of the parties to each other under this Agreement shall be terminated.
- (d) Seller shall have the right to use all or any portion of the Purchase Price payable to Seller at closing to eliminate any mortgage, lien or other encumbrance affecting the title to the Property which may be removed or satisfied by the payment of a liquidated sum of money.
- (e) Seller agrees after the date of this Agreement and prior to closing that Seller shall not sell, lease, encumber or otherwise transfer any part of the Property, or any interest therein, or consent to any lien or encumbrance thereon, and shall not enter into any agreements with third parties regarding the Property which will be binding on the Purchaser without the Purchaser's prior written consent after full disclosure, and which consent may be withheld in Purchaser's sole reasonable discretion.
- (f) Any title references in this Agreement are intended only to indicate the source of Seller's title, and shall not be deemed or construed to define, limit or change the Property, or the title intended or required to be conveyed under this Agreement.

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- 4. <u>DEED</u>. Seller shall transfer marketable title to the Property to Purchaser by warranty deed, free and clear of all mortgages, liens, encumbrances, easements, leases, covenants and restrictions, subject only to the following:
- (a) Any lien for real estate taxes for the then current year as are not yet due and payable as of the date of closing.
- 5. <u>CLOSING ADJUSTMENTS</u>. Seller and Purchaser shall each pay one half of the New Hampshire real estate transfer tax. Recording fees for recording the deed, and ALTA survey plan if required, shall be paid by Purchaser. Seller shall pay the fees for recording all documents necessary to permit Seller to convey title to the Property as required under Section 4.
- 6. <u>CLOSING DATE</u>. Subject to the other terms of this Agreement, the closing shall be held at the Merrimack County Registry of Deeds, in Concord, New Hampshire, or at such other location as the parties may mutually agree, on or before the date which is fifteen (15) days after the date all contingencies to Purchaser's obligation to purchase have been satisfied or expressly waived in writing by Purchaser. Notwithstanding, the parties may for their mutual convenience agree to an escrow closing, whereby the transactional and other closing documents required from each of the parties may be delivered to the escrow agent for closing, recording and disbursement.
- DUE DILIGENCE INSPECTIONS CONTINGENCY. (a) On and after the date of this Agreement, Purchaser and Purchaser's designees (including without limitation surveyors, engineers and consultants) are hereby granted and shall have full access to the Property from time to time, as and when Purchaser shall deem necessary but with prior notice to Seller of no less than one (1) day, for the purpose of making, at the sole cost and expense of Purchaser, such environmental, surveys, examinations, inspections, tests, site assessments and analyses of the condition of the Property (including without limitation soil borings, wetlands delineations, groundwater testing and other environmental sampling and testing, if any), to determine the existence of any environmentally hazardous activities, wastes, materials, substances or contaminants on the Property, and the suitability and engineering design parameters and constraints of the Property for Purchaser's intended use and development of the Property, as Purchaser shall deem necessary or desirable ("Inspections"). Seller shall fully cooperate with Purchaser in affording such access over the Property as may be reasonably requested by Purchaser or Purchaser's designees to access the Property to carry out the Inspections. Upon the completion of such Inspections and all related activities, Purchaser shall promptly restore the Property to a condition substantially similar to its condition prior to the start of such activities. Purchaser further agrees to indemnify Seller and hold Seller harmless from any liability, loss, cost or expense for personal injury or property claims or damage resulting directly from, or occurring during, the Inspections and all related activities on the Property by Purchaser or Purchaser's designees.
- (b) Purchaser may terminate this Agreement upon written notice to Seller not later than ninety (90) days from the date of this Agreement, upon written notice to Seller, if the results from any of Purchaser's Inspections indicate that an environmental condition or other site condition exists or may exist at, on or associated with the Property which may interfere with or adversely affect or restrict the development and use of the Property contemplated by Purchaser and this Agreement, or may result in the imposition on Purchaser of liabilities in connection with such conditions, or any

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result of any of such Inspections is otherwise not satisfactory to Purchaser in Purchaser's sole discretion. Upon termination pursuant to this provision, the escrow agent shall return the Purchaser's deposit paid under Section 2(a) to Purchaser and all obligations of the parties to each other under this Agreement shall be terminated.

- 8. <u>CONDITION OF PROPERTY</u>. (a) Seller represents to Purchaser that Seller has no knowledge of any adverse environmental or other site conditions on, at or associated with the Property, which has not been disclosed to Purchaser by Seller prior to the execution of this Agreement.
 - (b) To assist Purchaser's due diligence, Seller will make available to Purchaser for inspection and copying, within not more than ten (10) days after the date of execution of this Agreement by Seller, complete copies of all title examination reports, title opinions and title insurance policies in Seller's possession, all written reports, surveys, plans, assessments, data and information in Seller's possession, or available to Seller at minimal cost through any of Seller's engineers, surveyors, experts or consultants, pertaining to the environmental condition of the Property (including environmental site assessments, analyses and reports), wetlands surveys and delineations of the Property, soil tests, soil boring data, water quality monitoring data, surveys and topographical plans of the Property, and any engineering studies or reports ("Seller's Reports"), it being understood that it is the intent of this provision on the part of Seller to provide Purchaser with unrestricted access to any and all such information about the Property in Seller's possession or reasonably available to Seller for the sole purpose of effecting this Agreement, and no other. It is understood that Seller's Reports have been or are to be provided for Purchaser's information only, and Seller shall incur no liability and makes no warranties to Purchaser or others with respect to the scope of Seller's Reports, the accuracy or thoroughness thereof, or any of the information contained therein, and Purchaser hereby agrees to indemnify and hold Seller, and the preparer of any reports, harmless from and against any and all claims with regard to the accuracy or completeness of or otherwise related to Seller's Reports. Purchaser acknowledges that, except to the extent they are a matter of public record, Seller's Reports are deemed to be confidential and proprietary, and shall not disclose Seller's Reports to any third party; provided however, that Purchaser shall be permitted to provide copies of the Seller's Reports to its surveyors, engineers and consultants in connection with its Inspections of the Property, subject to the same restriction of confidentiality and purpose.
- 9. <u>POSSESSION AT CLOSING</u>. At time of closing, Seller shall be obligated to deliver possession of the Property to Purchaser vacant and free of any tenants or other occupants, and free and clear of all of Seller's personal belongings and property on or at the Property, except as otherwise may be specifically provided in this Agreement. All fixtures and appliances at the Property shall, unless otherwise provided in this Agreement, remain with the Property and be included in the sale, and shall become the property of Purchaser at time of closing.
- 10. <u>SURVEY CONTINGENCY</u>. Purchaser's obligation to purchase the Property is contingent upon Purchaser obtaining, at Purchaser's sole cost and expense, a boundary survey of the Property by a registered professional land surveyor, meeting applicable ALTA land title survey standards as

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specified by Purchaser and Purchaser's title insurer, with results confirming the configuration, acreage and dimensions of the Property as described in Section 1 above, and otherwise satisfactory to Purchaser and its title insurer in Purchaser's sole discretion. Purchaser shall have a period of ninety (90) days from the date of this Agreement to obtain said survey. Purchaser agrees to proceed in good faith and with due diligence to obtain said survey. Seller agrees that Purchaser and Purchaser's surveyors shall have full access to the Property from time to time to perform all work necessary to prepare and complete said survey for the purposes of this Agreement, and Seller hereby grants such access. Purchaser may terminate this Agreement upon written notice to Seller within 90 days from the date of this Agreement if the results of the survey are not satisfactory to Purchaser and its title insurer in Purchaser's sole discretion. Upon such termination, the escrow agent shall return the Purchaser's deposit paid under Section 2(a) to Purchaser and all obligations of the parties to each other under this Agreement shall be terminated.

- 11. <u>CLOSING DOCUMENTS.</u> Seller agrees that it will, at closing, deliver to Purchaser the following documents properly executed and in form and content satisfactory to Purchaser and Purchaser's title insurer:
- (a) The warranty deed conveying the Property to Purchaser, in accordance with Section 4 of this Agreement.
- (b) A Declaration of Consideration and Transfer Tax Form in accordance with New Hampshire Department of Revenue requirements.
- (c) An Affidavit of Non-Foreign Person Status in compliance with Internal Revenue Code Section 1445, if required.
- (d) Other affidavits and documents as may be reasonably required by Purchaser and Purchaser's title insurer, including but not limited to a mechanic's lien and parties in possession affidavit.
- 12. <u>BROKERS</u>. The parties represent to each other that they have involved no real estate agents, brokers or other commissioned agents in this transaction other than Christy Goodhue Real Estate, as Seller's agent, who shall be paid entirely by the Seller as a closing cost to Seller at time of closing. Seller agrees to indemnify, defend and hold harmless Purchaser from any demand, claim, action, lawsuit or proceeding for commission or other compensation by said Seller's agent. Each party (the "indemnifying party") hereby agrees to indemnify, defend and hold harmless the other party (the "indemnified party") from any and all liability, loss, cost or expense, including reasonable attorneys' fees, damages, liens or judgments incurred by the indemnified party arising from any claim, action, lawsuit or proceeding for commission or other compensation by any other real estate agent, broker or other person claiming to have acted for or on behalf of, or under contract or agreement with, the indemnifying party or to otherwise have brought about this transaction. The parties agree that the provisions of this Section 11 shall survive closing as a separate contractual obligation of the parties and shall not be merged in delivery of the deed to Purchaser.
- 13. <u>NOTICES</u>. Notices permitted or required under this Agreement shall be deemed received upon personal delivery, electronic delivery, or upon one (1) business day following pick up by

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overnight courier or overnight mail delivery service (provided a receipt for delivery is obtained), or three (3) business days following mailing by certified mail, postage prepaid, return receipt requested to:

SELLER:

Meloney P. Goodsell

20 Carr Street Franklin, NH 03235

Email Address: <u>meloney 41464@gnail.com</u>

PURCHASER:

Public Service Company of New Hampshire

d/b/a Eversource Energy 780 North Commercial Street

P.O. Box 330

Manchester, NH 03105-0330 Attention: Jennifer Ducharme

Email Address: jennifer.ducharme@eversource.com

Either party may by written notice to the other designate a different address for purposes of this provision.

- 14. <u>DEFAULT</u>. (a) In the event Purchaser shall fail to purchase the Property in default of the terms of this Agreement, and provided Purchaser has not cured such default within ten (10) days after written notice of default from Seller, Seller shall have the right to either (i) retain the deposit paid by Purchaser under Section 2(a) as reasonable liquidated damages as Seller's sole and exclusive remedy for the breach hereof; or (ii) to seek specific performance of this Agreement against the Purchaser together with recovery of Seller's reasonable attorney fees and costs for enforcing specific performance.
- (b) In the event Seller shall fail to convey the Property in default of the terms of this Agreement, and provided Seller has not cured such default within ten (10) days after written notice of default from Purchaser, Purchaser shall have the right to either (i) terminate this Agreement by giving written notice to Seller of such termination, in which event the escrow agent shall return to Purchaser the full earnest deposit paid under Section 2(a), and upon such payment all rights and obligations of the parties hereunder shall be terminated, or (ii) to seek to enforce specific performance of this Agreement against the Seller together with recovery of Purchaser's reasonable attorney fees and costs for enforcing specific performance.
- 15. <u>RISK OF LOSS</u>. Risk of loss or damage to the Property by fire or other casualty until the time of the delivery of the deed by Seller to Purchaser as provided in this Agreement is assumed by and shall remain with Seller.
- 16. <u>CONDEMNATION</u>. (a) Seller shall promptly notify Purchaser in the event that all or any portion of the Property is or is threatened to be taken by any public or private authority under the power of eminent domain or condemnation.

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- (b) In the event of a taking as referred to in paragraph (a), Purchaser may either (i) elect to rescind this Agreement, whereupon all obligations of the parties to each other shall terminate and the escrow agent shall return to Purchaser the earnest deposit paid under Section 2(a), or (ii) accept a conveyance of the Property pursuant to the provisions of this Agreement, subject, however, to the condemnation claim, in which event the Purchaser shall pay the full Purchase Price and Seller shall assign Seller's rights in such condemnation claim to Purchaser. Seller shall not enter into any agreement with the condemning authority fixing the final award for such condemnation without the prior written consent of Purchaser.
- 17. <u>COUNTERPARTS</u>. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute but one in the same agreement.
- 18. <u>APPLICABLE LAW</u>. This Agreement shall be construed and enforced in accordance with the laws of the State of New Hampshire.
- 19. <u>BINDING EFFECT AND ASSIGNMENT</u>. Subject to the restrictions on any transfer or assignment as set forth below, the terms and provisions of this Agreement shall be binding on and shall inure to the benefit of the parties' respective heirs, administrators, executors and successors and assigns. Neither party may sell, assign, option or otherwise transfer, in whole or in part, conditionally or unconditionally, any of its rights under this Agreement without the prior written consent of the other, which consent will not be unreasonably withheld or delayed; provided, however, that the consent of the Seller shall not be required for any assignment by Purchaser to a wholly owned subsidiary of Purchaser, or to an affiliate company of Purchaser which is a member company of the Eversource Energy holding company system.
- 20. <u>ENTIRE AGREEMENT</u>. This Agreement constitutes the entire understanding between the parties with respect to the Property. All representations, statements and agreements heretofore made by the parties are merged into this Agreement, which is the full expression of the parties' rights and obligations concerning the Property. No statements, representations, promises or understanding not set forth in this Agreement shall bind the parties unless reduced to writing and signed by both parties. This Agreement may not be changed, modified or amended except by a writing signed by both parties.
- 21. <u>CONFIDENTIALITY</u>. Until the closing and recording of the deed of the Property to Purchaser, this Agreement and all of the terms and conditions hereof shall be treated by the parties as confidential, and shall not be disclosed to any third person or entity, except their respective attorneys, engineers, surveyors, title insurance companies, consultants and mortgagees as may be necessary to carry out their respective rights and obligations under this Agreement, or as needed or requested in connection with any permitting approvals as may be required by Purchaser, or as the parties may otherwise mutually agree; provided, however, that redaction of the financial terms of this Agreement may be required in connection with any such disclosure.

[SIGNATURES TO FOLLOW ON NEXT PAGE]

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IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

SELLER:

Witness

Meloney P. Goodsell

PURCHASER:

Public Service Company of New Hampshire d/b/a Eversource Energy

Lennyle Ouchane

Salvatore Giuliano

Manager, Real Estate Management

ESCROW RECEIPT

The undersigned acknowledges receipt of \$15,900.00 as the earnest deposit under this Agreement, which is to be held by the undersigned in escrow pursuant to the terms of this Agreement and the attached Supplemental Escrow Agreement.

Commonwealth Land Title Insurance Company

Name:

Title

me: $\angle / \mathcal{N} \mathcal{O} /$

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SUPPLEMENTAL ESCROW AGREEMENT

Property: Franklin, New Hampshire Tax Map 76, Lot 142, 20 Carr Street

We, the undersigned, do hereby jointly and severally agree that the Escrow Agent, Commonwealth Land Title Insurance Company ("Escrow Agent") shall incur no liability whatsoever in connection with its good faith performance under this Supplemental Escrow Agreement, and do hereby jointly and severally release and waive any claims we may have against Escrow Agent, which may result from its performance in good faith of its function under this agreement, including but not limited to, a delay in the electronic wire transfer of funds. Escrow Agent shall be liable only for loss or damage caused directly by its acts of negligence while performing as Escrow Agent under this Supplemental Escrow Agreement.

The Escrow Agent undertakes to perform only those duties which are expressly set forth in that certain Agreement dated July 1, 2015, by and between Meloney P. Goodsell and Public Service Company of New Hampshire d/b/a Eversource Energy (the "Agreement") and acknowledge that these duties are purely ministerial in nature.

The Escrow Agent shall be entitled to rely upon the authenticity of any signature and the genuineness and validity of any writing received by Escrow Agent relating to this Supplemental Escrow Agreement. Escrow Agent may rely upon any oral identification of a party notifying Escrow Agent orally as to matters relating to this Supplemental Escrow Agreement if such oral notification is permitted thereunder. Escrow Agent is not responsible for the nature, content, validity or enforceability of any of the escrow documents except for those documents prepared by Escrow Agent.

In the event of any disagreement between the parties hereto resulting in conflicting instructions to, or adverse claims or demands upon the Escrow Agent with respect to the release of the Funds or the escrow documents, the Escrow Agent may refuse to comply with any such instruction, claim or demand so long as such disagreement shall continue and in so refusing the Escrow Agent shall not release the escrowed funds (the "Funds") or the escrowed documents (the "Documents"). The Escrow Agent shall not be, or become liable in any way for its failure or refusal to comply with any such conflicting instructions or adverse claims or demands and it shall be entitled to continue to refrain from acting until such conflicting instructions or adverse claims or demands (a) shall have been adjusted by agreement and it shall have been notified in writing thereof by the parties hereto; or (b) shall have finally been determined in a court of competent jurisdiction. In the alternative, Escrow Agent may, but shall not be obligated to, file a suit in interpleader for a declaratory judgment for the purpose of having the respective rights of the claimants adjudicated and may deliver to the court the Funds and Documents.

The Escrow Agent shall be entitled to receive reimbursement as Escrow Agent of documented reasonable attorneys' fees and other documented out-of-pocket expenses incurred by it in the performance of its duties under this Supplemental Escrow Agreement, which shall be paid in equal amounts by Buyer and Seller. If the Escrow Agent's duties and responsibilities are increased beyond the contemplated within this Supplemental Escrow

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Agreement, additional compensation will be allowed as agreed upon in writing by all of the parties hereto. Such additional compensation shall be shared equally by Buyer and Seller. The Escrow Agent may at its sole discretion resign by giving (30) days written notice thereof to the parties hereto. The parties shall furnish to the Escrow Agent written instructions for the release of the Funds and Documents. If the Escrow Agent shall not have received such written instructions within the thirty (30) days, the Escrow Agent may petition any court of competent jurisdiction for the appointment of a successor Escrow Agent and upon such appointment deliver the Funds and Documents to such successor. Costs and fees incurred by the Escrow Agent may, at the option of the Escrow Agent, be deducted from any funds held pursuant hereto. The Escrow Agent neither approves nor disapproves of this transaction, nor does it recommend for or against, nor does it have an opinion as to the legality or validity of the transaction.

If the Funds is at any time attached, garnished, or levied upon under any court order or if the payment or delivery of the Funds is stayed or enjoined by any court order, or if any order, judgment or decree shall be made or entered by any court affecting the Funds, Escrow Agent is authorized, in its sole discretion, to rely upon and comply with the order, writ, judgment or decree. Escrow Agent shall not be liable to any of the parties or to any other person firm or corporation by reason of such compliance even though the order, writ, judgment or decree may be subsequently reversed modified, annulled, set aside or vacated.

Upon making disposition of the Funds in accordance with this Supplemental Escrow Agreement, Escrow Agent shall be deemed fully released and discharged from any and all duties and obligations under this Supplemental Escrow Agreement, without the need that any other documentation be executed by Seller or Buyer.

Escrow Agent shall not be responsible for (i) any fluctuations in the interest rate applicable to any cash held by it pursuant to or by virtue of this Agreement: (ii) the validity, sufficiency, collectability, or legal effect of any instrument deposited with Escrow Agent.

The parties acknowledge that the funds will be deposited in an interest bearing Money Market account at RBS Citizens Bank ("Citizens"). Furthermore, it is understood and agreed by the parties that should Escrow Agent cease to maintain its escrow accounts with Citizens, and establishes its escrow banking relationship with another national banking institution, that said Funds will transferred to a similar interest bearing account at said institution.

Notwithstanding anything contained in this Agreement to the contrary, Escrow Agent has the right (but not the obligation) to require from Seller and Buyer a written release of liability of Escrow Agent, a written authorization to disburse the Funds, or both.

The parties hereto do hereby certify that they are aware that the Federal Deposit Insurance Corporation ("FDIC") coverages apply only to a cumulative maximum amount of \$250,000 for each individual depositor for all of depositor's accounts at the same or related institution. The parties hereto further understand that certain banking instruments such as, but not limited to, repurchase agreements and letters of credit are not covered at all by FDIC insurance.

Docket No. DE 19-057 Data Request TS 2-051 Dated 11/01/19 Attachment TS 2-051 E Page 11 of 12

Further the parties hereto understand that Escrow Agent assumes no responsibility for, nor will the parties hereto hold Escrow Agent liable for, any loss occurring which arises from the fact that the amount of the above account may cause the aggregate amount of any individual depositor's accounts to exceed \$250,000 and that the excess amount is not insured by the Federal Deposit Insurance Corporation or that FDIC insurance is not available on certain types of bank instruments.

The parties to this escrow acknowledge that the maintenance of such escrow accounts with some depository institutions may result in Escrow Agent being provided with an array of bank services, accommodations or other benefits by the depository institution. Escrow Holder or its affiliates also may elect to enter into other business transactions with or obtain loans for investment or other purposes from the depository institution. All such services, accommodations and other benefits shall accrue to Escrow Agent, and Escrow Agent shall have no obligation to account to the parties to the escrow for the value of such services, accommodations or other benefits.

In the event of any inconsistency between the terms and provisions of the Agreement and this Supplemental Escrow Agreement, the terms and provisions of this Supplemental Escrow Agreement shall control.

Federal I.D. or Social Security Number: 003-58-6939

Docket No. DE 19-057 Data Request TS 2-051 Dated 11/01/19 Attachment TS 2-051 E Page 12 of 12

IN	WITNESS	WHEREOF,	the	parties	have	executed	this	Supplemental	Escrow	Agreement	as	of
_		, 2015.										

ESCROW AGENT:

COMMONWEALTH LAND TITLE INSURANCE COMPANY

Name: LINDA S- PEILLY

Title: Senior Title Officer

File: 15 CLT 0038-NH

SELLER:

Name: Meloney P. Goodsell

BUYER:

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY

Name: Salvatore Giuliano

Title: Manager, Real Estate Management

REV. 03/14 SUP.ESC.AGREE

Docket No. DE 19-057 Data Request TS 2-051 Dated 11/01/19 Attachment TS 2-051 F Page 1 of 1



REDACTED

Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A

Public Service Co of New Hampshire Project Approval Information

REDACTED

Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 2 of 36



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REDACTED



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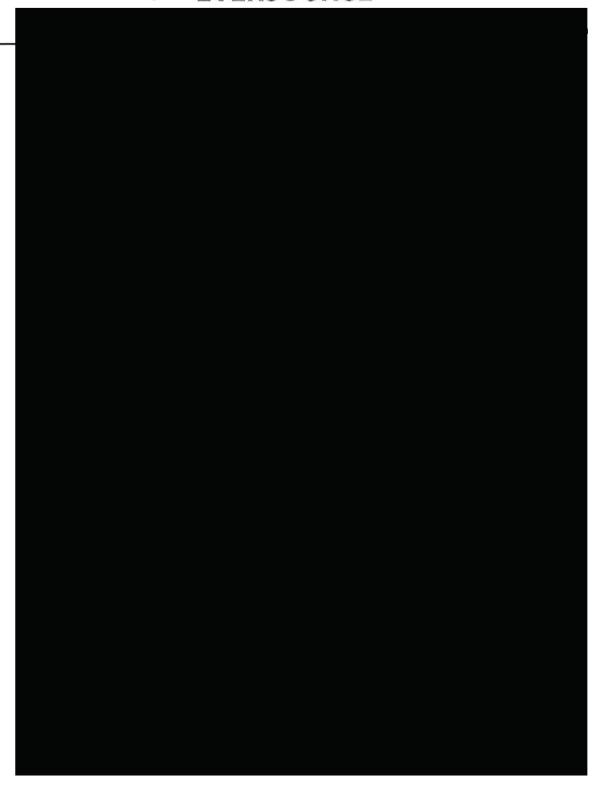
Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 5 of 36



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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 6 of 36

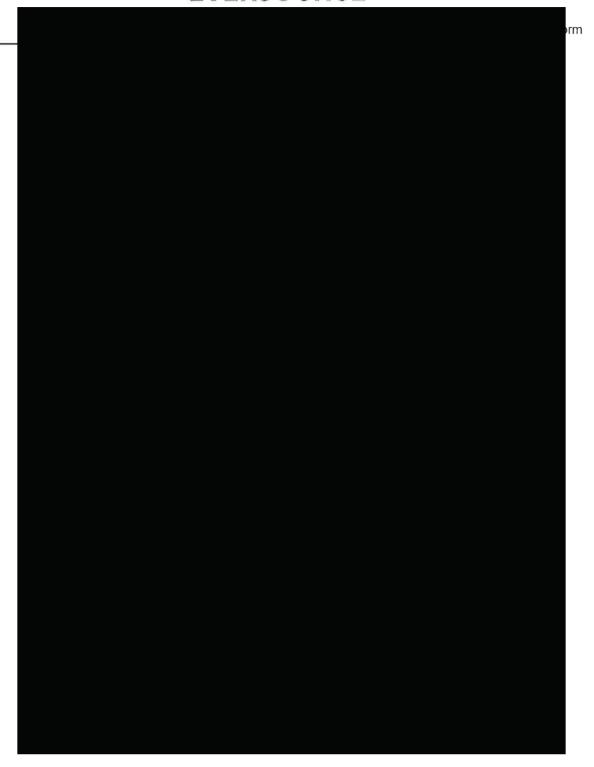
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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 7 of 36

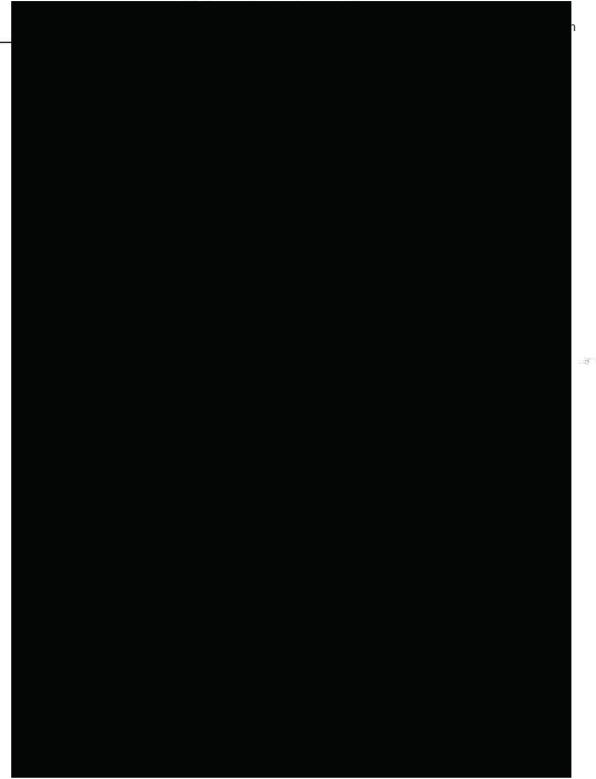
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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 8 of 36



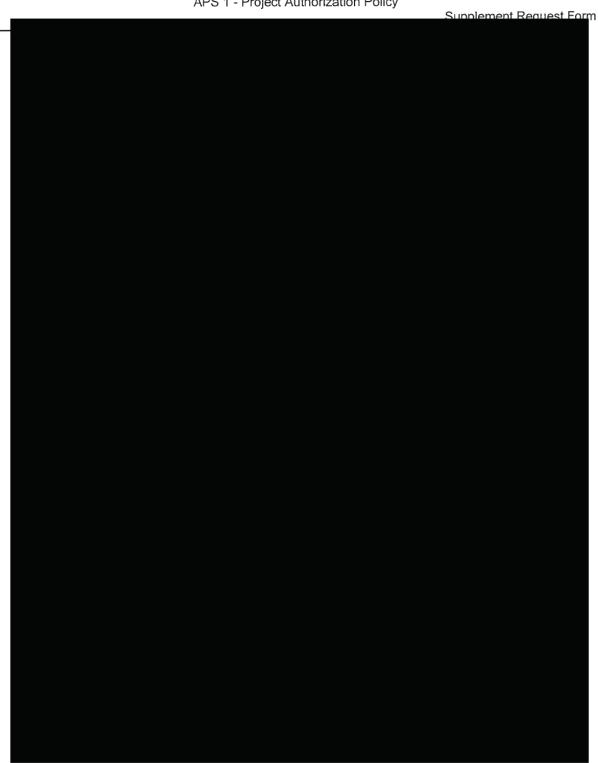


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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 9 of 36

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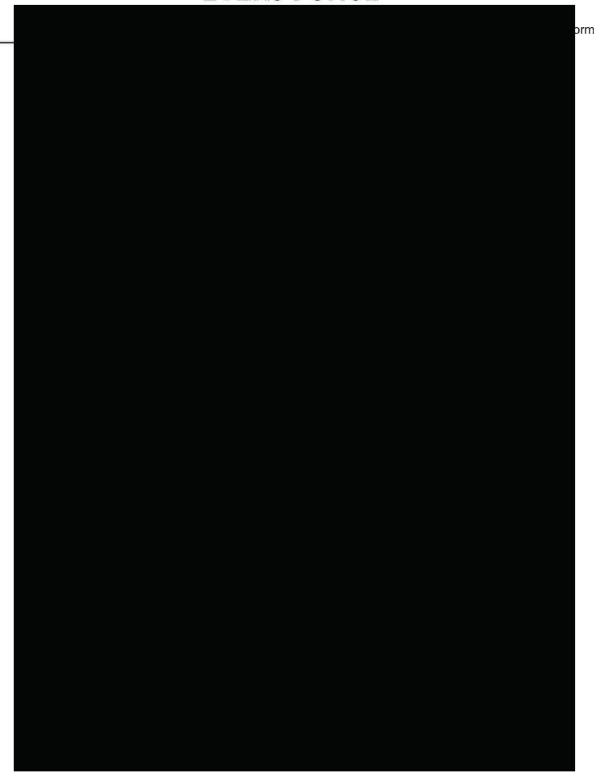
APS 1 - Project Authorization Policy



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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 10 of 36

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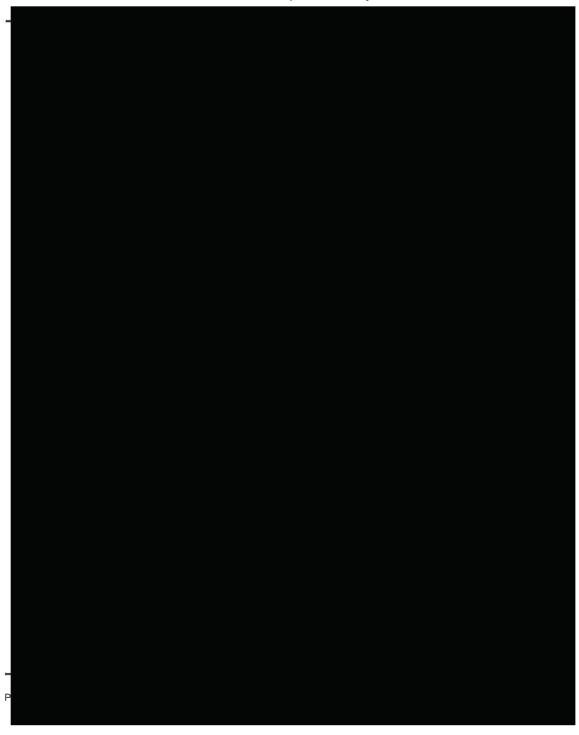


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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 11 of 36



Accounting Policy Statement No. 2 Operations Project Authorization

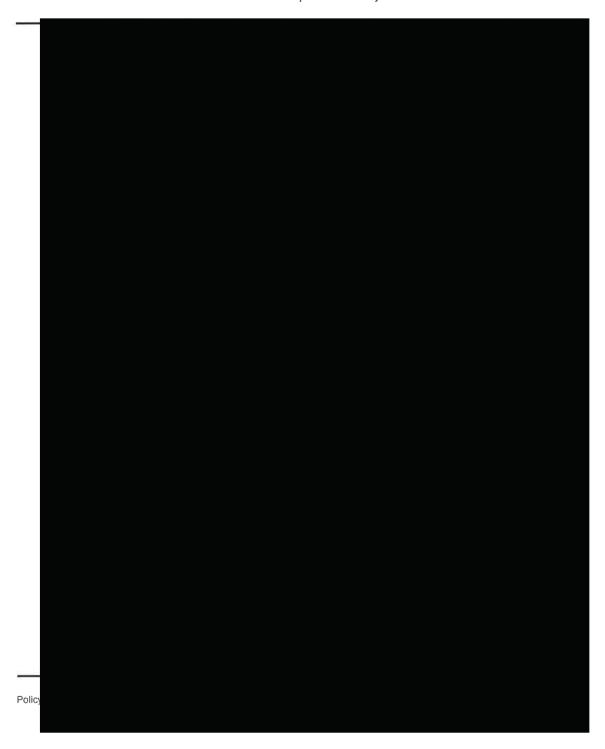


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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 12 of 36



Accounting Policy Statement No. 2 Operations Project Authorization



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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 13 of 36



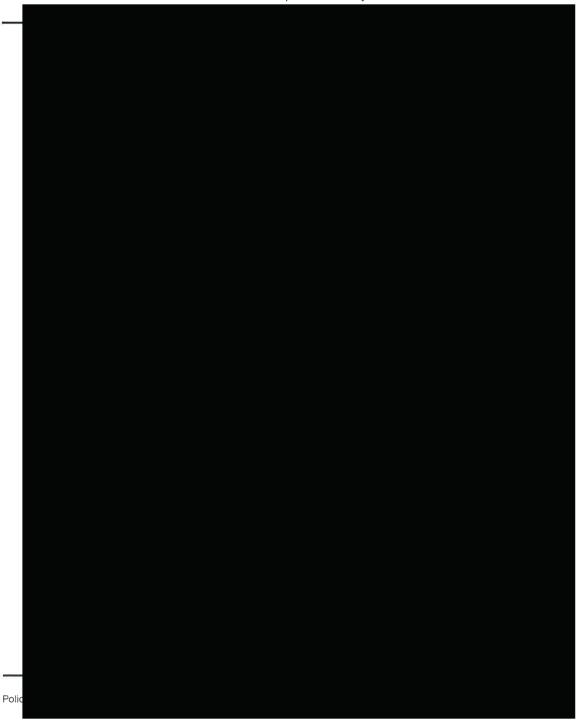
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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 14 of 36

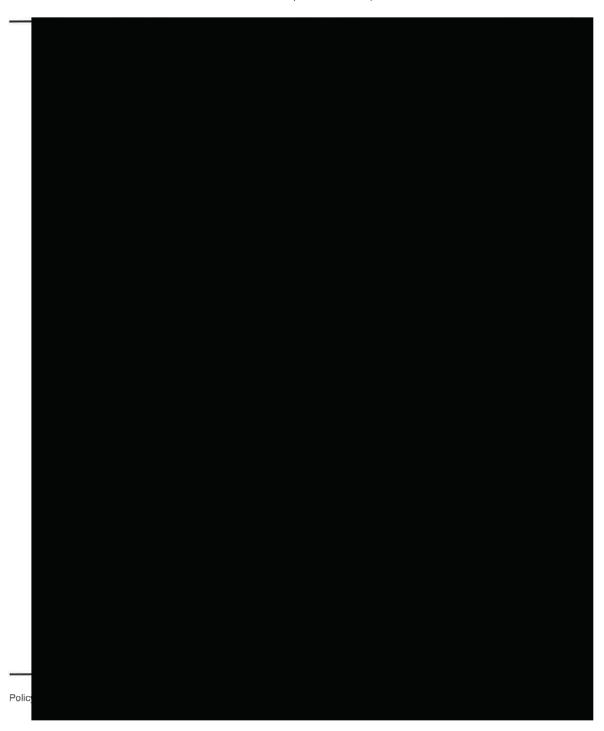




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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 15 of 36

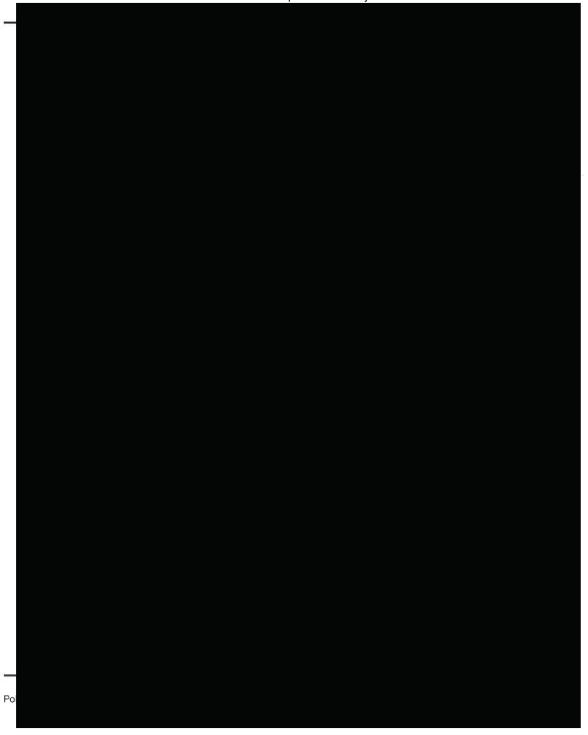




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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 16 of 36

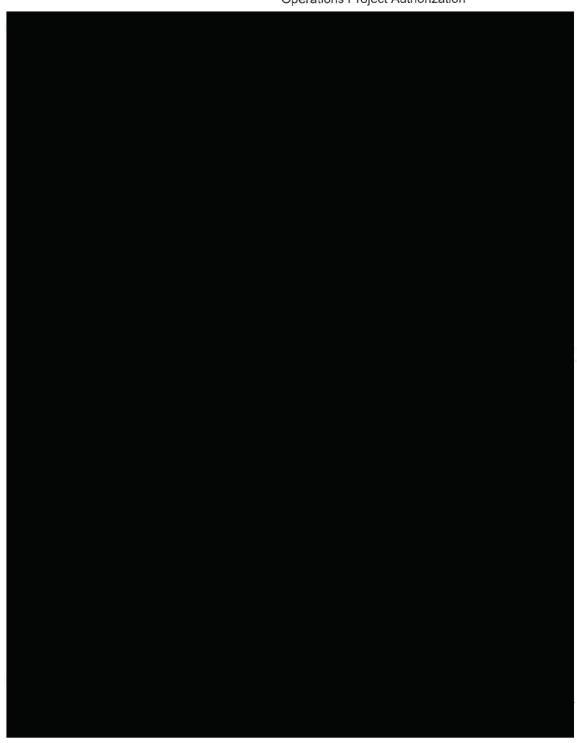




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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 17 of 36

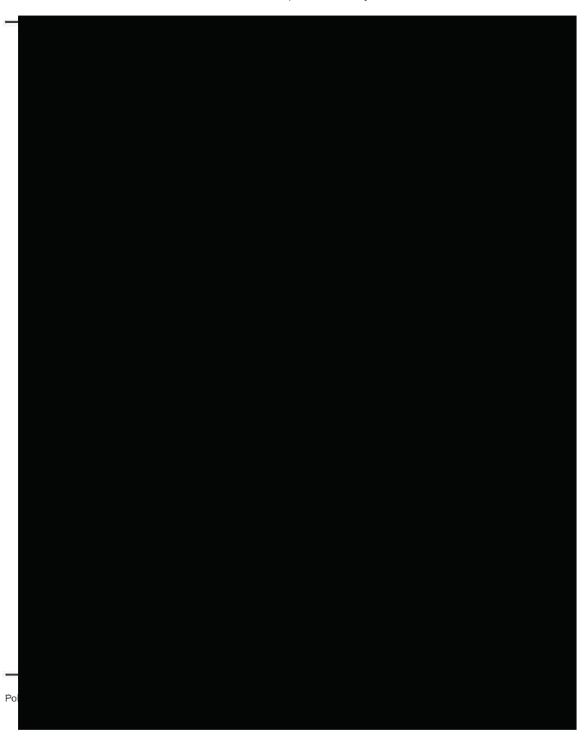




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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A Page 19 of 36







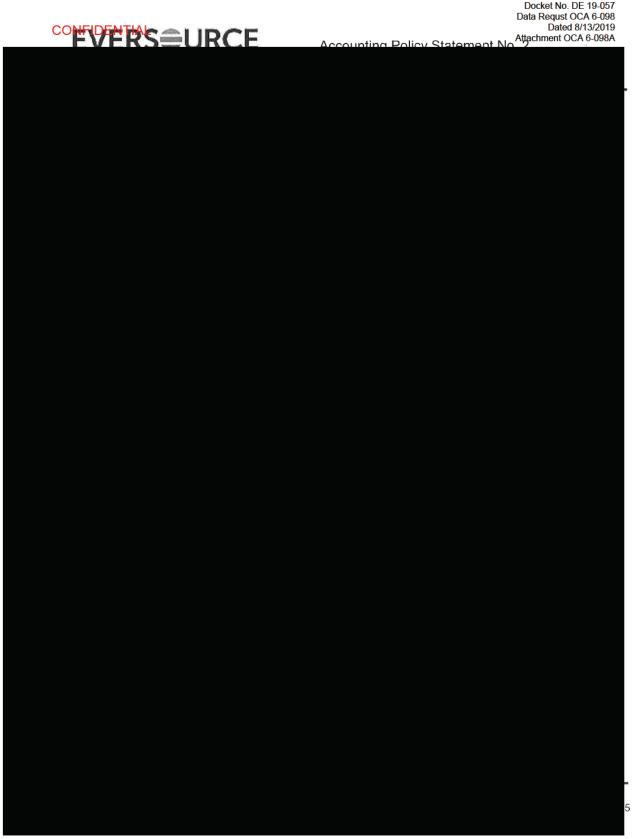






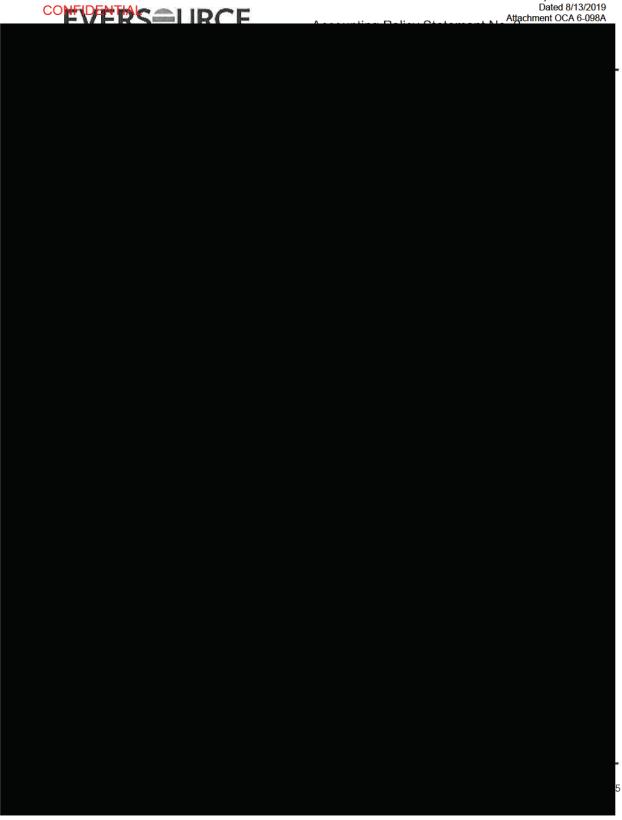
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Docket No. DE 19-057



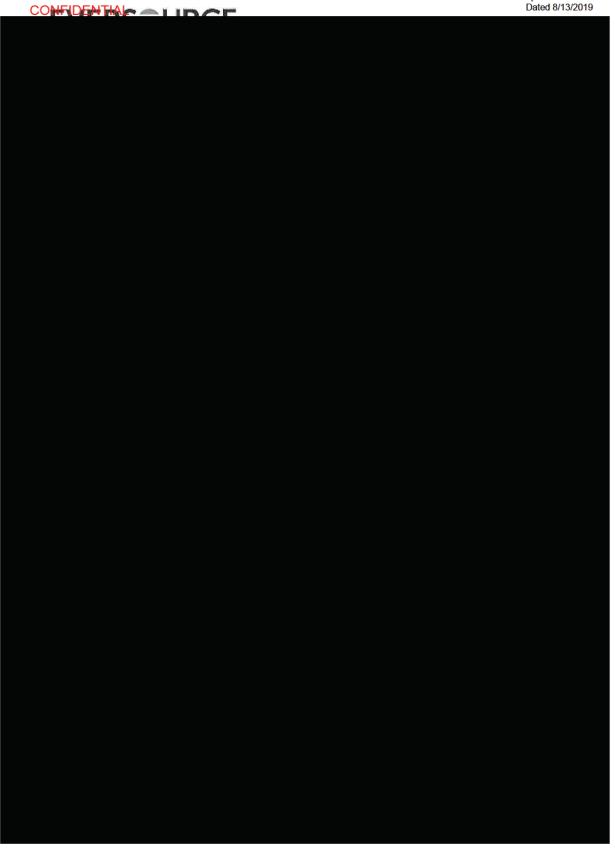
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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A



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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019



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Docket No. DE 19-057
Data Requst OCA 6-098
Dated 8/13/2019
Attachment OCA 6-098A
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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A

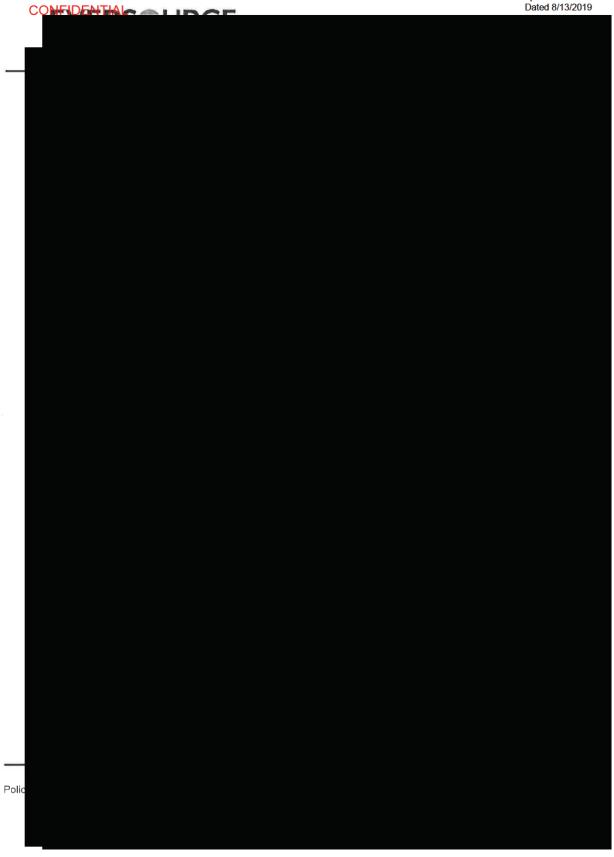




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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019



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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A CONTONE 15 Poli

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Docket No. DE 19-057
Data Requst OCA 6-098
Dated 8/13/2019
Attachment OCA 6-098A
Accounting Policy Statement No. 2
Page 32 of 36

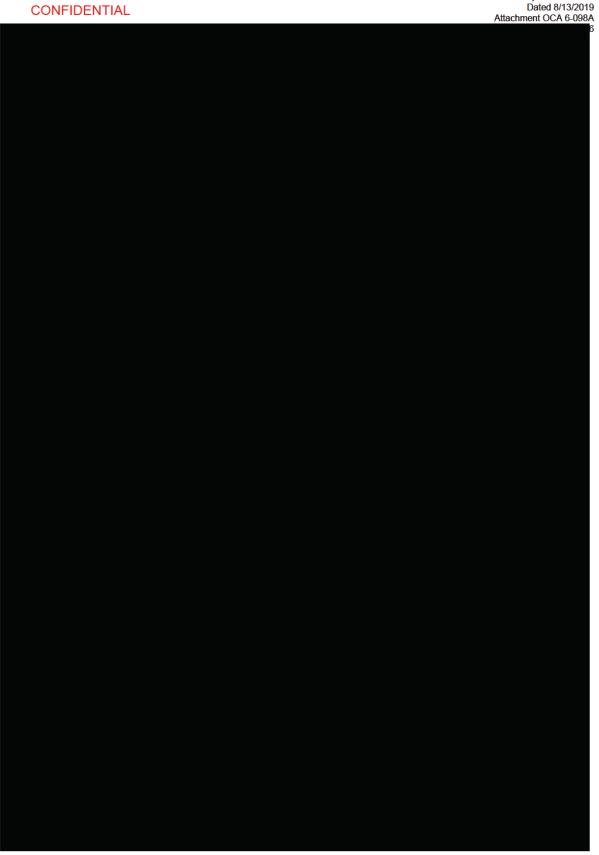
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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A

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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A



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Docket No. DE 19-057 Data Requst OCA 6-098 Dated 8/13/2019 Attachment OCA 6-098A 36 CONFIDENTIAL

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Docket No. DE 19-057
Data Requst OCA 6-098
Dated 8/13/2019
Attachment OCA 6-098A
Page 36 of 36 CONFIDENTIAL

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Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 08/13/2019 Date of Response: 08/28/2019

Request No. OCA 6-098 Page 1 of 1

Office of Consumer Advocate

Witness: Erica L. Menard

Request:

Request from:

Reference Menard Testimony, Attachment ELM-2 (Perm), Bates 1214, Line 48, describing an upgrade of the Daniel substation that resulted the Company booking approximately \$17.7 million to account 362890, distribution station equipment.

- a. Please provide a brief narrative summarizing the project.
- Please provide the Project Authorization Form and any planning area studies that were completed for this project.
- c. If the Company conducted any analyses consistent with its TD 190 relating to the feasibility of non-wire alternatives to the transformer upgrade, please provide those analyses. If the Company did not conduct such analyses, please explain why this is the case.
- d. If the Company's justification for not studying the feasibility of non-wire alternatives is based on asset condition or project lead time, please provide documentation supporting those justifications.

Pursuant to Puc 203.08(d) and RSA 363:28, VI, Eversource provides this response on a confidential basis to the Commission Staff and the Office of Consumer Advocate. Eversource submits that it has a good faith basis for seeking confidential treatment of the documents in this response and that it intends to submit a motion for confidential treatment of the documents prior to the commencement of any hearing in this proceeding.

REDACTED

Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 10/28/2019 Date of Response: 11/21/2019

Request No. TS 2-051 Page 1 of 6

Request from: New Hampshire Public Utilities Commission Staff

Witness: Erica L. Menard, Joseph A. Purington, Lee G. Lajoie

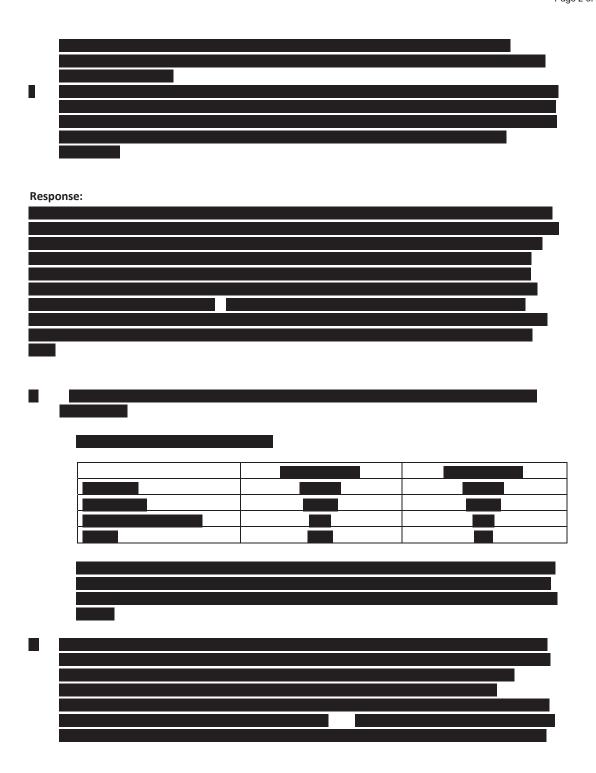
Request

Re: Daniel SS (Webster) 34.5kV SS Upgrade, #A14W02, OCA 6-098A. Please provide the following information involving this project:



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Docket DE 19-057 Data Request TS 2-051 Dated 10/28/2019 Page 2 of 6



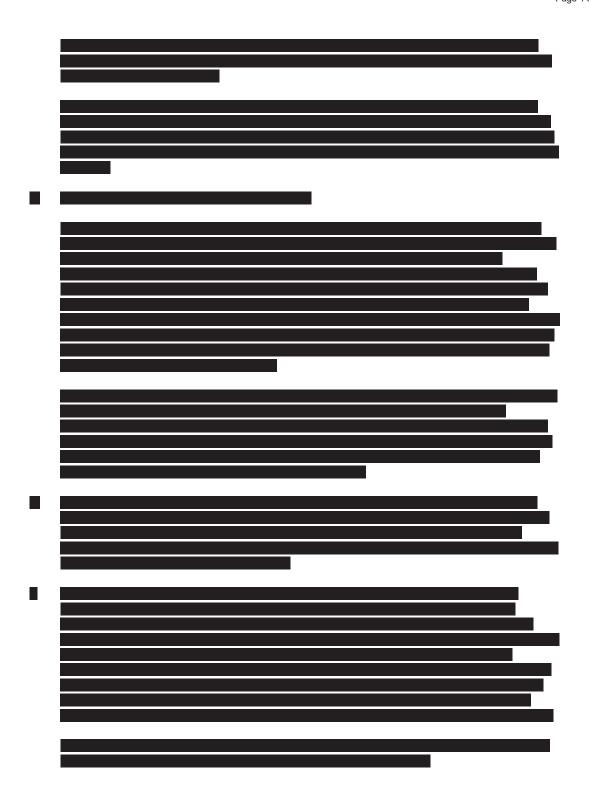
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Docket DE 19-057 Data Request TS 2-051 Dated 10/28/2019 Page 3 of 6



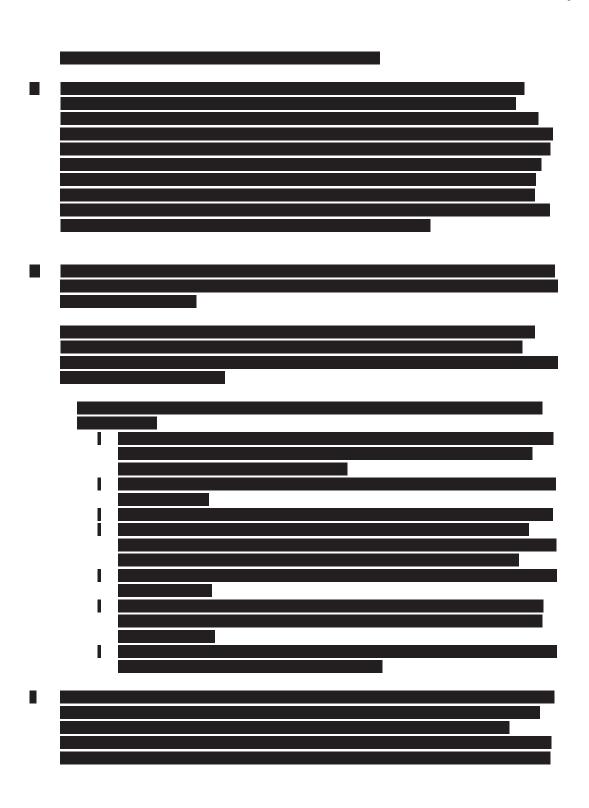
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Docket DE 19-057 Data Request TS 2-051 Dated 10/28/2019 Page 4 of 6



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Docket DE 19-057 Data Request TS 2-051 Dated 10/28/2019 Page 5 of 6



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Docket DE 19-057 Data Request TS 2-051 Dated 10/28/2019 Page 6 of 6



Public Service Co of New Hampshire Project Approval Information

Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 1 of 9

Fund Project Number A18VRP	Status open	Revision	2
Project Title Viper Replacement Project-Bettermnt	Operating Unit		
Initiated By Lynne Godbout	Initiated Date	1/19/2018 09:55:58	

Description of Work Replace 223 G&W Viper reclosers under warranty repair. This is a betterment. Cost of the project is the labor cost required to remove the old unit and install the new unit. Requested by Ryan West.

Location 6999: NH: SPECIFIC TOWN N/A: 6999

Project Schedule	2018 2019 2020 \$9,879,090.00 \$0.00 \$0.00		/ Expenditures Est Start Date : 1/22/2018				Est Complete Date :	6/1/2018
			2021 \$0.00	2022 \$0.00	Future Years \$0.00	Total \$9,879,090		
Cost Breakdown	Capital \$9,468,238	Expense \$0	Removal \$410,852	Retirements \$0	Credits \$0	\$9,879,090.00		

Reason For Work

Background Information

Approvals

Level	Approver	Approval Limit	Date Approved
Project Manager	Menard, Erica	\$0	3/15/2018
Plant Accounting	Davis, Sean	\$0	3/16/2018
Manager - PSNH Dist	Lajoie, Lee	\$100,000	3/16/2018
Director - PSNH Dist	Geaumont, Marc	\$250,000	3/20/2018
Vice President - PSNH	Purington, Joseph	\$1,000,000	4/2/2018
Sr. VP/President - Ops	Quinlan, William	\$5,000,000	6/20/2018
Executive VP - COO	Schweiger, Werner	\$12,500,000	7/2/2018



Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 2 of 9

Supplement Request Form

Supplement Request Form

Project Title: Viper Replacement Project
Project ID Number: A18VRP
Plant Class/(F.P.Type): Distribution Line
Project Type: Specific
Capital Investment Part of Original Operating Plan? No
O&M Expenses Part of the Original Operating Plan? No
Estimated in service date(s): 6/1/18
Other:

Supplement Justification

Justification for Additional Resources

This project was initially with the plan to replace all Vipers with rebuilt units at zero material cost and requiring only minimal P&C Engineering and commissioning by Communication and Control groups. Due to the amount of time required to ship the removed Vipers back to G&W for rebuild and the desire to complete the replacement of these Vipers in a timely manner, the decision was made by NH senior management to supplement the inventory by utilizing Scadamate switches and Nova reclosers. Each of these installations incur material charges for the new device and require different settings and additional commissioning work. This supplemental request is intended to cover those additional costs.



Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 3 of 9

Supplement Request Form

Supplement Cost Summary

Note: Dollar values are in thousands:

	P	Prior		Supplement	
	Auth	norized		Request	Total
Capital Additions - Direct	\$	895	\$	5,102	\$ 5,997
Less Customer Contribution		*		98	+
Removals net of Salvage%		2		7E	ê
Total Direct Spending	\$	895	\$	5,102	\$ 5,997
Capital Additions - Indirect		55		3,784	3,839
AFUDC		<u> </u>		43	43
Total Capital Request	\$	950	\$	8,929	\$ 9,879
O&M	W.	*		0 10	=
Total Request	\$	950	\$	8,929	\$ 9,879

Note: Dollar values are in thousands:

Total Supplement Request by year view:

	Ye	ar 2018	Ye	ar 20	Year	20+	Total
Capital Additions - Direct	\$	5,997	\$	-	\$	-	\$ 5,997
Less Customer Contribution		1.0		(#C)		-	(#0
Removals net of Salvage%		-		·		·	140
Total Direct Spending	\$	5,997	\$	#	\$	-	\$ 5,997
Capital Additions - Indirect		3,839		75			3,839
AFUDC		43		₩:		:41	43
Total Capital Request	\$	9,879	\$	Self.	\$	526	\$ 9,879
O&M		-		=			
Total Request	\$	9,879	\$	-	\$	-	\$ 9,879

Original Project Authorization Form attached:



Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 4 of 9

Supplement Request Form

Operations Project Authorization Form

Date Prepared: 01/10/18	Project Title: Viper Replacement Project
Company/ies: Eversource NH	Project ID Number: A18VRP
Organization: NH Operations	Class(es) of Plant: Distribution
Project Initiator: Ryan West	Project Category: Reliability – Distribution Lines
Project Manager: Ryan West	Project Type: Specific
Project Sponsor: Joe Purington	Project Purpose: Replace Viper Reclosers
Estimated in service date: 5/30/18	If Transmission Project: PTF? n/a
Eng. /Constr. Resources Budgeted? No	Capital Investment Part of Original Operating Plan? No
Authorization Type: Full funding	O&M Expenses Part of the Original Operating Plan? No
Total Request: \$950,000	

Financial Requirements:		
Project Authorization		
ERM:		_
FP&A:		
FFαA	7A9	

Executive Summary

Replace 223 G&W Viper reclosers under warranty repair. Cost of the project is the labor cost required to remove the old unit and install the new unit.

Project Costs Summary

		rior orized	2	018	2	20	20)+	To	otals
Capital Additions - Direct		\$ -	\$	895	\$	-	\$	-	\$	895
Less Customer Contribution		38		ä		(, 2)				
Removals net of Salvage	%					3 5 3				
Total - Direct Spending		\$ **	\$	895	\$	X e s	\$		\$	895
Capital Additions - Indirect		-		55		:		-		55
Subtotal Request		\$ 91	\$	950	\$	· (%)	\$	-	\$	950
AFUDC		-		-		_		-		-
Total Capital Request		\$ 	\$	950	\$	-	\$	-	\$	950
O&M		47		22		-		_		8
Total Request		\$ 8	\$	950	\$	898	\$	967	\$	950



Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 5 of 9

Supplement Request Form

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	Year 1	Year 2	Year 3+	Total
Straight Time Labor	\$115			
Overtime Labor	0			
Outside Services	\$780			
Materials	0			
Other, including contingency amounts (describe)				
Total	\$895			

Indirect Capital Costs	Year 1	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	\$55			
Capitalized interest or AFUDC, if any				
Total				
Total Capital Costs	\$950			
Less Total Customer Contribution				
Total Capital Project Costs	\$950			
Total O&M_Project Costs				

Note: Explain unique payment provisions, if applicable

Future Financial Impacts:

Provide below the estimated future costs that will result from the project:

Note: Dollar values are in thousands:

										Tota	l Future
Future Costs		Year 20 Year		ar 20 Year20		ar20	Year	20+	Project Costs		
Capital		\$	*	\$	(*)	\$	-	\$	5 8 6	\$	Ħ
O&M			<u>~</u>		-		*		:=::		*
Other			□		_		<u>=</u>		-		₩
	TOTAL	\$		\$	(#)	\$	-	\$	5 5 8	\$	-

Describe the estimated future Capital, O&M and/or Other costs noted above:

What functional area(s) will these future costs be funded in?	
	-
A representative from the respective functional area is required to be included as a project approver.	



Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 6 of 9

Supplement Request Form

If this is other than a Reliability Project, please complete the section below;

Provide below the estimated financial benefits that will result from the project: *Note: Dollar values are in thousands:*

									Tota	I Future	
Future Benefits	Yea	Year 20		Year 20		Year20		Year 20+		Project Benefits	
Capital	\$	-	\$	=	\$	196	\$	-	\$	(14)	
O&M		ω.		<u> </u>				744		72	
Other		8		8		(#		-		18	
TOTAL	. \$	-	\$	-	\$	-	\$	-	\$	-	

Describe the estimated future Capital, O&M and/or Other benefits noted above:

What functional area(s) will these benefits be reflected in?

A representative from the respective functional area is required to be included as a project approver.

Asset Retirement Obligation (ARO) and/ or Environmental Cleanup Costs (Environmental Liabilities):

Is there an ARO associated with this project? If yes, please provide details: No

Are there other environmental cleanup costs associated with this project? If yes, please provide details:

Docket No. DE 19-057 Exhibit 32 Attachment JED-4



APS 1 - Project Authorization Policy

Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 7 of 9

Supplement Request Form

Technical Justification:

Project Need Statement

Eversource NH has experienced multiple failures of the G&W Viper recloser due to a manufacturing issue for units produced in 2015 - 2015. These failures have impacted over 50,000 customers. They are severly impacting our reliability.

Project Objectives

Replace 223 Viper reclosers that fall within the recall manufacturing period (2014-2015) with remanufactured units to eliminate the design flaw.

Project Scope

Remove existing 223 Viper reclosers and install refurbished Vipers. Removed Vipers will be returned to G&W electric to be refurbished with new vacuum bottles. As needed to expedited the project schedule, Eaton Nova reclosers and S&C scadamates will be used to replace some existing Vipers.

Background / Justification

Eversource NH has experienced 15 failures of model year 2014 or 2015 G&W vipers to date. These outages have impacted over 50,000 customers. There are 216 remaining units on the system. These remaining units pose a significant reliability risk as they serve the majority of customers statewide.

Business Process and / or Technical Improvements:

Improved reliability due to decreased equipment failures

Alternatives Considered with Cost Estimates

N/A

Docket No. DE 19-057 Exhibit 32 Attachment JED-4



Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 8 of 9

Supplement Request Form

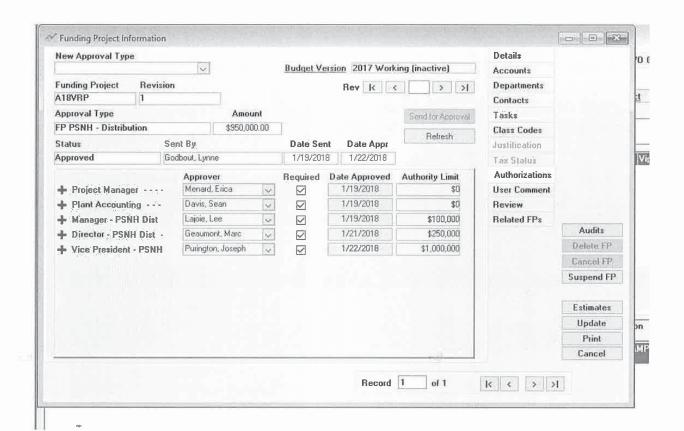
Project Schedule

Milestone/Phase Name	Estimated Completion Date
All 2014-2015 Vipers Removed from System	05/31/18

All 2014-2015 Vipers Removed from System	05/31/18
Regulatory Approvals None	
Risks and Risk Mitigation Plans None	
References	

Attachments (One-Line Diagrams, Images, etc.)

Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 BA Page 9 of 9



Defective Vipers replaced with refurbished Vipers: 161 units		Refurbished \	Vipers in new locations: 101	units	
LOCATION		Pole #	Street Address	Town	
8/396X::CONCORD:RD::LEE:NH	9E820052	23/80A	Smith River Rd	Alexandria	9L820691
48/41::JONES:RD::MILFORD:NH	9Z820113	2/1	Main St	Amherst	9Z821042
48/27Y::OLD WILTON:RD::MILFORD:NH	9Z820079	338/287	Collins St.	Ashland	9L821234
48/20y::OLD WILTON:RD::MILFORD:NH	9Z820114	6/33	Back River Road	Bedford	9Z920345
314X12/20::SAVAGE:RD::MILFORD:NH	9Z820116	9/17	Meetinghouse Rd	Bedford	9Z920343
8/172Y::MAMMOTH:RD::HOOKSETT:NH	9Y820084	25/123Y	New Boston Rd	Bedford	9Z821321
5/23::SPRINGFIELD:RD::SUNAPEE:NH	9W721404	199/122	Greenfield Road	Bennington	9K822037
5/44Y::AMHERST:ST::AMHERST:NH	9Z820080	342B/65X	Campton Village Rd	Campton	9L820698
5/64::AMHERST:ST::AMHERST:NH	9Z820081 9Z820082	342B/67-1 5/1	Campton Village Rd Deerfield Rd	Campton Candia	9L820699 9Y820612
5/88::AMHERST:ST::AMHERST:NH 5/93::AMHERST:ST::AMHERST:NH	9Z820082 9Z820008	15/7	High St	Candia	9Y820612 9Y820657
5/115::LIMBO:LN::AMHERST:NH	9Z820083	3344/1	Off Route 3	Carroll	9A820284
5/178::ROUTE 101:::AMHERST:NH	9Z820084	101/104	Franklin Pierce Hwy	Chesterfield	9K821956
5/182Y::ROUTE 101:::AMHERST:NH	9Z820085	395/6	Eastman Rd	Conway	9c820418
6/13Z::SUNSET:CIR::MILFORD:NH	9Z820153	399/20Y	Back Road	Dover	9\$821245
6/9Y::MONT VERNON:RD::MILFORD:NH	9Z820155	1/137	Central Ave	Dover	9S920351
4/29X::ELM:ST::MILFORD:NH	9Z820196	5/81	County Farm Rd	Dover	9S821160
497/9::SUNSET:CIR::MILFORD:NH	9Z820197	399/49A	Dover Point Rd	Dover	9\$821189
3010/2Y::STAR:DR::MERRIMACK:NH	9N820134	399/49	Dover Point Rd	Dover	9S821237
146/45::LAFAYETTE:RD::PORTSMOUTH:NH	9P820044	1/307	Dover Point Rd	Dover	9S920386
39/2X::TWIN BRIDGE:RD::WEARE:NH	9Z820256	399/20	McKone Lane	Dover	9\$821245
39/3::TWIN BRIDGE:RD::WEARE:NH	9Z820257	709/146	Oak St	Dover	9S921101
2/7::WEARE:RD::NEW BOSTON:NH	9Z820260	45/24	Charles Street	Farmington	9S721189
2/5::WEARE:RD::NEW BOSTON:NH	9Z820261	7/10	Richmond Rd	Fitzwilliam	9K822050
23/80A::SMITH RIVER:RD::ALEXANDRIA:NH	9L820203	11/26	Route 119	Fitzwilliam	9K822049
3116/56::CHOCORUA MOUNTAIN:HWY::OSSIPEE:NH	9C820019	6/14	Tibbets Hill Rd	Goffstown	9Z920305
3116/132::CHOCORUA MOUNTAIN:HWY::OSSIPEE:NH	9C820034	57F/1	Draper Rd Fairway Drive	Grantham Grantham	9W820319
3116C/1::OSSIPEE MOUNTAIN:HWY::OSSIPEE:NH 311/207::DL 311:::HENNIKER:NH	9C820070 9W820154	5X/180 5XA/1	Greensward Drive	Grantham	9W820316 9W820317
311/206Z::DL 311:::HENNIKER:NH	9W820134 9W820140	5X/182	Greensward Drive	Grantham	9W820317
311/117Z::DL 311:::HENNIKER:NH	9W8201029	57/Y	Route 10	Grantham	9W820320
311/152Y::WEARE:RD::HENNIKER:NH	9W820149	3105/3	ROW	Greenland	9P820655
311/154X::DL 311:::HENNIKER:NH	9W820150	231/5	Temple Street	Greenville	9K822038
311/206::DL 311:::HENNIKER:NH	9W820172	1/15	Willard Hill Rd	Harrisville	9K822039
80A/1::WEARE:RD::HENNIKER:NH	9Z820262	200/6	Willard Hill Rd	Harrisville	9K822047
3173/302X::DODGE HILL:RD::HENNIKER:NH	9W820155	3/13X	Dartmouth Coll Hwy	Haverhill	9A820545
3120/140X::ROUTE 119:::FITZWILLIAM:NH	9K820126	9/21	Off Central St (Rt 302)	Haverhill	9A820604
3/1::MILL:ST::TROY:NH	9K820124	3/8	Off Dartmouth Coll Hwy	Haverhill	9A820602
18/12:W:MAIN:ST::RINDGE:NH	9K820133	15/37Y	Flanders Road	Henniker	9Z920350
4/47::PILLSBURY:RD::LONDONDERRY:NH	9D820116	199/97Y	Chesterfield Rd	Hinsdale	9K821955
842/5::MCGREGOR:ST::MANCHESTER:NH	9Z820296	199/5	Chestnut Hill SS to Rte 63	Hinsdale	9K821954
100/4::CALEF:HWY::LEE:NH	9E820053	3178X3/1	Old Chesterfield Road	Hinsdale	9K820457
100/1::DL 313:::HANCOCK:NH	9K820131	155/11	Main St	Hooksett	9Z821288
85/1XX::DL 313:::JAFFREY:NH	9K820135	40N/34	W. River Rd	Hooksett	9Z821287
27/1Y::PIERCE CROSSING:RD::JAFFREY:NH 39/1Y::CLINTON:RD::ANTRIM:NH	9K820142 9K820132	1/86 61A/14Y	Hopkinton Rd Central St	Hopkinton Hudson	9Z920297 9N920311
1/29::MAIN:ST::HAMPSTEAD:NH	9D820048	190/1	Kimball Hill Rd	Hudson	9N920311
314/60X::DL 314:::MILFORD:NH	9Z820150	236/1	Kimball Hill Rd	Hudson	9N920313
314/96Y-1::MCGETTIGAN:RD::WILTON:NH	9Z820156	192/4Y	Court Street	Keene	9K821907
314/99::MCGETTIGAN:RD::WILTON:NH	9Z820117	183/1Y	Court Street	Keene	9K822045
2/4::FOREST:RD::WILTON:NH	9Z820158	3/142	Old Concord Road	Keene	9K821811
:S:MAST:ST::GOFFSTOWN:NH	A18VRP05	111/5	Page Street	Keene	9K822059
:S:MAST:ST::GOFFSTOWN:NH	A18VRP05	548/1X	Summit Road	Keene	9K822040
4/6::DOVER:RD::DURHAM:NH	9E820056	114/26	Washington St	Keene	9K822058
3173/96Y::OLD HENNIKER:ST::HILLSBOROUGH:NH	9K820127	497/2	West Street	Keene	9K820746
3174/97::HENRY WILSON:HWY::FARMINGTON:NH	9S820111	486/3	West Street	Keene	9K822063
317/976::DL 317:::WARNER:NH	9W820106	164/1	West Surry Rd (12A)	Keene	9K822043
311/295Z::PARK:AVE::HOPKINTON:NH	9W820099	292/1Y	Wilson St	Keene	9K821908
317/1134::PARK:AVE::HOPKINTON:NH	9W820097	201/Y	Bergin Ter	Lisbon	9A820623
6H/X::PARK:AVE::HOPKINTON:NH	9W820143	250/Z	School St	Lisbon	9A820622
6/1::PARK:AVE::HOPKINTON:NH	9W820144	2/31	near Wood Hawk Nesenkeag	Litchfield Litchfield	9N820987
311/238-33A::CLEMENT HILL:RD::HOPKINTON:NH 514/5Y::NEWMARKET:RD::DURHAM:NH	9W820146 9E820066	2/46 73/01Y	Nesenkeag Industrial Dr	Litchfield Londonderry	9N820950 9Y820788
3229/77Y::ROUTE 108:::NEWFIELDS:NH	9E820066 9E820067	77/1	Rocky Pond Rd	Loudon	91820788 9L920222
3/123Y::NEWMARKET:RD::DURHAM:NH	9E820067 9E820068	324/44	Brown Ave	Manchester	9Y820786
19/2Y::NEW:RD::NEWMARKET:NH	9E820069	1288/Y	Countryside Blvd	Manchester	9Z920355
322/65Y::BOYNTON:ST::BEDFORD:NH	9Z820165	1354/9	Dunbarton Rd	Manchester	9Z821291
92/4Y::DEPOT:ST::MERRIMACK:NH	9Z820276	1354/Y	Dunbarton Rd	Manchester	9Z821292
8/51::BEDFORD:RD::MERRIMACK:NH	9Z820297	46/108	Hanover St	Manchester	9Y820886
1/63Y::TECHNOLOGY PARK:DR::MERRIMACK:NH	9N820054	324/42	Hazelton Ave	Manchester	9Y820785

333/417Y:E:MAIN:ST::CONWAY:NH	9C820073
333/473X::HEATH:RD::CONWAY:NH	9C820074
333/477Y::HEATH:RD::CONWAY:NH	9C820075
50/1X::EASTMAN:RD::CONWAY:NH	9C820076
344/101::DANIEL WEBSTER:HWY::MEREDITH:NH	9L820205
338/208::STRAITS:RD::NEW HAMPTON:NH	9L820207
344/103::DANIEL WEBSTER:HWY::MEREDITH:NH	9L820206
347/216-2::QUINT:ST::CONWAY:NH	9C820077
348/184Y::CHERRY VALLEY:RD::BETHLEHEM:NH	9A820087
348/184A::CHERRY VALLEY:RD::BETHLEHEM:NH	9A820088
3310/1::WHITEFIELD:RD::BETHLEHEM:NH	9A820089
3521/17::COMMUNITY:ST::BERLIN:NH	9B820032
434/87:E:MILAN:RD::BERLIN:NH	9B820033
3525X/48A-2::JERICHO:RD::BERLIN:NH	9B820034
1/4::RIVERSIDE:DR::BERLIN:NH	9B820007
4/2A::BRIDGE:ST::MILAN:NH	9B820035
1/157::MILAN:RD::MILAN:NH	9B820036
353/94Y::DIESEL:RD::NASHUA:NH	9N820141
355/682-2::FORT HILL:RD::STEWARTSTOWN:NH	9A820090
355/554::TRPR LESLIE LORD:HWY::COLEBROOK:NH	9A820092
355/246::DL 355X:::STRATFORD:NH	9A820076
355/278Y::DL 355X:::STRATFORD:NH	9A820078
355/352::DL 355X:::COLUMBIA:NH	9A820083
355/408Y::DL 355X:::COLUMBIA:NH	9A820077
355/121::DL 355X:::STRATFORD:NH	9A820075
355/683Y::US ROUTE 3:::STEWARTSTOWN:NH	9A820084
3/14::US ROUTE 3:::STEWARTSTOWN:NH	9A820085
3/15::US ROUTE 3:::STEWARTSTOWN:NH	9A820086
29/144::LONDONDERRY:TPKE::HOOKSETT:NH	9Y820036
15/9::WHITEHALL:RD::HOOKSETT:NH	9Y820037
8/224::MAMMOTH:RD::HOOKSETT:NH	9Y820038
15/13Y::WHITEHALL:RD::HOOKSETT:NH	9Y820057
15/145::HIGH:ST::CANDIA:NH	9Y820058
29/142::LONDONDERRY:TPKE::HOOKSETT:NH	9Y820060
- /	9Y820085
8/171::MAMMOTH:RD::HOOKSETT:NH	3.020003
8/1/1::MAMMOTH:RD::HOOKSETT:NH 362/186::FARMINGTON:RD::ROCHESTER:NH	9S820086
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362/186::FARMINGTON:RD::ROCHESTER:NH	9S820086
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH	9S820086 A18VRP02
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH	9S820086 A18VRP02 9N820140
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH	9S820086 A18VRP02 9N820140 9E820070
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382::TROY:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/27::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/27::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6Y::SPAULDING:TPKE::ROCHESTER:NH 392/53Z::OAK:ST::ROCHESTER:NH	95820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097 9S820096
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/6Y::WALNUT:ST::ROCHESTER:NH 392/6Y::SPAULDING:TPKE::ROCHESTER:NH 392/532::OAK:ST::ROCHESTER:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097 9S820096 9S820095
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/6Y::WALNUT:ST::ROCHESTER:NH 392/6Y::SPAULDING:TPKE::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097 9S820096 9S820098
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/X::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097 9S820096 9S820098 9S820094
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/27::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6Y::SPAULDING:TPKE::ROCHESTER:NH 392/532::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 592/56::OAK:ST::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097 9S820096 9S820099 9S820098 9S820099
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/XY::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6Y::SPAULDING:TPKE::ROCHESTER:NH 392/5S::OAK:ST::ROCHESTER:NH 392/5S::OAK:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 5/43X::WASHINGTON:ST::ROCHESTER:NH 1393/5S::WUSLIMGTON:ST::ROCHESTER:NH 1393/5S::WULLIAM LOES:DR::MANCHESTER:NH 130/5::LAFAYETTE:DR::FRANCONIA:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820096 9S820096 9S820099 9S820094 9S820099 9S820099
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6Y::SPAULDING:TPKE::ROCHESTER:NH 392/532::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 613/31::CALEF:HWY::ROCHESTER:NH 613/1::CALEF:HWY::ROCHESTER:NH 393/58::WILLIAM LOEB:DR::MANCHESTER:NH	9S820086 A18WRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097 9S820096 9S820099 9S820099 9S820099 9S820099 9S820099
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/X::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/5Y::SPAULDING:TPKE::ROCHESTER:NH 392/5S2::OAK:ST::ROCHESTER:NH 392/5G::OAK:ST::ROCHESTER:NH 592/5G::OAK:ST::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 5/43X::WASHINGTON:ST::ROCHESTER:NH 5/43X::WASHINGTON:ST::ROCHESTER:NH 303/58::WILLIAM LOBE:DR::MANCHESTER:NH 300/58::DEFOT POND:RD::MILTON:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820096 9S820095 9S820099 9S820099 9S820099 9S820099 9S820099 9S820100 9Y820063 9A820081
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/XV::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/6Y::WALNUT:ST::ROCHESTER:NH 392/6S::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 51/3X::WASHINGTON:ST::ROCHESTER:NH 130/5S::WILLIAM LOEB:DR::MANCHESTER:NH 130/5S::WILLIAM LOEB:DR::MANCHESTER:NH 300/58::DEPOT POND:RD::MILTON:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH	9S820086 A18WRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820096 9S820096 9S820098 9S820099 9S820099 9S820099 9S820099 9S820094 9S820094 9S820094 9S820004 9S820100
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/SY::WALNUT:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 613/1::CALEF::HWY::ROCHESTER:NH 393/S8::WILLIAM LOEB::DR::MANCHESTER:NH 303/S8::WILLIAM LOEB::DR::MANCHESTER:NH 300/SS::DEPOT POND:RD::MILTON:NH 300/5::LAFAYETTE::DR::FRANCONIA:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820096 9S820095 9S820099 9S820094 9S820099 9S820100 9Y820063 9A820081 9S820104 9S820104
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/XV::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/6Y::WALNUT:ST::ROCHESTER:NH 392/6S::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 51/3X::WASHINGTON:ST::ROCHESTER:NH 130/5S::WILLIAM LOEB:DR::MANCHESTER:NH 130/5S::WILLIAM LOEB:DR::MANCHESTER:NH 300/58::DEPOT POND:RD::MILTON:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH	9S820086 A18WRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820096 9S820096 9S820098 9S820099 9S820099 9S820099 9S820099 9S820094 9S820094 9S820094 9S820004 9S820100
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/SY::WALNUT:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 613/1::CALEF::HWY::ROCHESTER:NH 393/S8::WILLIAM LOEB::DR::MANCHESTER:NH 303/S8::WILLIAM LOEB::DR::MANCHESTER:NH 300/SS::DEPOT POND:RD::MILTON:NH 300/5::LAFAYETTE::DR::FRANCONIA:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097 9S820096 9S820099 9S820099 9S820099 9S820099 9S820100 9Y820063 9A820081 9S820104 9S820106 9S820106
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/XX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6S::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 51/43X::WASHINGTON:ST::ROCHESTER:NH 393/58::WILLIAM LOEB:DR::MANCHESTER:NH 393/58::WILLIAM LOEB:DR::MANCHESTER:NH 300/58::DEPOT POND:RD::MILTON:NH 300/58::DEPOT POND:RD::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH 3174/108X::SPRING:ST::RARMINGTON:NH 3174/108X::SPRING:ST::RARMINGTON:NH 3823/35:W:HOLILIS::T::NASHUA:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820096 9S820095 9S820099 9S820099 9S820090 9Y820063 9A820081 9S820104 9S820104 9S820106 9S820106 9S820107 9S820108 9N820105
362/186::FARMINGTON:RD::ROCHESTER:NH :::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6S::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 614/312::FLAGG:RO::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 51/31::CLAEF:HWY::ROCHESTER:NH 130/5::LAFAYETTE:DR::FRANCONIA:NH 393/58::WILLIAM LOEB:DR::MANCHESTER:NH 130/5::LAFAYETTE:DR::FRANCONIA:NH 300/58::DEPOT POND:RD::MILTON:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 318/16::DERRY:RD::LITCHFIELD:NH 3223/35::W:HOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LITCHFIELD:NH 3223/35::W:HOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LIN::COCHESTER:NH 327/28::PIERCE:RD::BARRINGTON:NH	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820096 9S820095 9S820099 9S820099 9S820099 9S820099 9S820100 9Y820063 9A820081 9S820104 9S820106 9S820107 9S820107 9S820108 9S820107 9S820108 9S820108 9S820108
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/SY::WALNUT:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 50/37::WALNUT:ST::ROCHESTER:NH 393/58::WILLIAM LOEB::DR::MANCHESTER:NH 393/58::WILLIAM LOEB::DR::MANCHESTER:NH 300/5::LAFAYETTE::DR::FRANCONIA:NH 300/5::LBFAYETTE::DR::FRANCONIA:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 38/11::FIELDSTONE:LN::ROCHESTER:NH 3223/35::WICHLIIS:ST::NASHUA:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH 337/28::PIERCE::RD::BARRINGTON:NH INSIDED S/S::ROUTE 104::BRISTOL	9\$820086 A18WRP02 9N820140 9E820070 9K820125 9K820182 9\$820087 9\$820096 9\$820095 9\$820099 9\$820099 9\$820099 9\$820100 9Y820063 9A820081 9\$820104 9\$820106 9\$820107 9\$820108 9\$820109
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/X::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/5S::OAK:ST::ROCHESTER:NH 392/5S::OAK:ST::ROCHESTER:NH 392/5S::OAK:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 613/1::CALEF:HWY::ROCHESTER:NH 393/5S::WILLIAM LOEB:DR::MANCHESTER:NH 130/5:LAFAYETTE:DR::FRANCONIA:NH 300/175::WHITE MOUNTAIN:TW::MILTON:NH 3174/108X::SPRING:ST::ARMINGTON:NH 3174/108X::SPRING:ST::ARMINGTON:NH 31823/3S::WHOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH 3227/28::PIERCE:RD::BARRINGTON:NH INSIDED 5/S::ROUTE 104::BRISTOL 352/90-2::DL 352:::BERLIN:NH	9\$820086 A18WRP02 9N820140 9E820070 9K820125 9K820182 9\$820087 9\$820096 9\$820095 9\$820099 9\$820099 9\$820099 9\$820100 9Y820063 9A820081 9\$820104 9\$820104 9\$820105 9\$820108 9N820105 9N820109 9S820109
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/XX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6S::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/43X::WASHINGTON:ST::ROCHESTER:NH 393/58::WILLIAM LOEB:DR::MANCHESTER:NH 303/58::WILLIAM LOEB:DR::MANCHESTER:NH 300/58::DEPOT POND:RD::MILTON:NH 300/58::DEPOT POND:RD::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH 3174/108X::SPRING:ST::RARMINGTON:NH 3174/108X::SPRING:ST::RARMINGTON:NH 323/35:W:HOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH 327/28::PIERCE:RD::BARRINGTON:NH INSIDED S/S::ROUTE 104::BRISTOL 352/90-2:DL 352:::BERLIN:NH VCR 115, Somersworth, Somersworth SS	9\$820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9\$820087 9\$820095 9\$820095 9\$820099 9\$820099 9\$820099 9\$820090 9\$820100 9Y820063 9A820010 9\$820100 9\$820100 9\$820107 9\$820108 9N820055 9N820120 9\$820109 9\$820113 A18VRP01
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/X::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6S::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/53::WALNUT:ST::ROCHESTER:NH 392/53::WALNUT:ST::ROCHESTER:NH 392/53::WALNUT:ST::ROCHESTER:NH 393/58::WASHINGTON:ST::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 393/58::WILLIAM LOEB:DR::MANCHESTER:NH 130/5::LAFAYETTE:DR::FRANCONIA:NH 300/58::DEPOT POND:RD::MILTON:NH 300/175::WHITE MOUNTAIN:HW::MILTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 318/16Y::DERRY:RD::LTCHFIELD:NH 3223/35::WHOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH 327/28::PIERCE:RD::BARRINGTON:NH INSIDED \$/S::ROUTE 104::BRISTOL 352/90-2::DL 352:::BERLIN:NH VCR 115, Somersworth, Somersworth SS Keene, Rte 10, P# 29/2Y, 76W7R5	9\$820086 A18WRP02 9N820140 9E820070 9K820125 9K820182 9\$820087 9\$820096 9\$820095 9\$820098 9\$820099 9\$820099 9\$820009 9\$820100 9Y820063 9A820081 9\$820104 9\$820104 9\$820107 9\$820108 9N820055 9N820120 9\$820113 A18WRP01 9B820031 A18WRP01 9B820031 A18WRP03 9K820351
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6S::DAK::ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 50/37::WALNUT:ST::ROCHESTER:NH 130/1::CALEF:HWY::ROCHESTER:NH 393/58::WILLIAM LOEB:DR::MANCHESTER:NH 130/5::LAFAYETTE:DR::FRANCONIA:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 318/108::DEPOT PONIED::MILTCHIELD:NH 3223/35::WI-LIIAM:ST::ROCHESTER:NH 327/28::PIERCE:RD::BARRINGTON:NH INSIDED \$/S::ROUTE 104::BRISTOL 352/90-2::DL 352::BERLIN:NH VCR 115, Somersworth, Somersworth SS Keene, Re 10, P# 29/2Y, 76W7RS VCR TB9, Somersworth, Somersworth SS	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820097 9S820099 9S820099 9S820099 9S820100 9Y820063 9A820081 9S820104 9S820107 9S820108 9N820055 9N820120 9S820109 9S820109 9S820109 9S820109 9S820104 9S820107 9S820108 9N820055 9N820120 9S820109 9S820113 A18VRP01 9B820031 A18VRP03 9K820351 A18VRP03
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/X::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/SY::WALNUT:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 392/SS::OAK:ST::ROCHESTER:NH 392/SO::OAK:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 614/31Z::FLAGG:RD::ROCHESTER:NH 613/1::CALEF:HWY::ROCHESTER:NH 393/S8::WILLIAM LOEB::DR::MANCHESTER:NH 303/S8::WILLIAM LOEB::DR::MANCHESTER:NH 300/5::LAFAYETTE::DR::FRANCONIA:NH 300/5::LAFAYETTE::DR::FRANCONIA:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH 3223/35::W:HOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH 327/28::PIERCE::RD::BARRINGTON:NH INSIDED S/S::ROUTE 104::BRISTOL 352/90-2::DL 352:::BERLIN:NH VCR 115, Somersworth, Somersworth SS keene, Rte 10, P# 29/2Y, 76W7RS VCR TB9, Somersworth, Somersworth SS VCR TB9, Somersworth, Somersworth SS 20W2 S/S	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820097 9S820096 9S820099 9S820099 9S820099 9S820100 9Y820063 9A820081 9S820104 9S820106 9S820107 9S820108 9N820105 9N820105 9N820109 9S820101 9S820101 9S820101 9S820101 9S820103 A18VRP01 9S820103 A18VRP01 A18VRP03 A18VRP01
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR::DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/XY::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/5S::OAK:ST::ROCHESTER:NH 392/5S::OAK:ST::ROCHESTER:NH 392/5S::OAK:ST::ROCHESTER:NH 614/312::FLAGG:RD::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 613/1::CALEF:HWY::ROCHESTER:NH 393/5S::WILLIAM LOEB:DR::MANCHESTER:NH 305::LAFAYETTE:DR::FRANCONIA:NH 300/175::WHITE MOUNTAIN:TW::MILTON:NH 3174/108X::SPRING:ST::ARMINGTON:NH 3174/108X::SPRING:ST::ARMINGTON:NH 3123/3S::WHOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH 322/28::PIERCE:RD::BARRINGTON:NH INSIDED 5/S::ROUTE 104::BRISTOL 352/90-2::DL 352:::BERLIN:NH VCR 115, Somersworth, Somersworth SS Keene, Rte 10, P# 29/2Y, 76W7RS VCR TB9, Somersworth, Somersworth SS 20W2 5/S Loudon, Rte 106, P# 63/13, 31W1	9S820086 A18VRP02 9N820140 9E820070 9K820125 9K820182 9S820087 9S820096 9S820096 9S820099 9S820099 9S820090 9Y820063 9A820081 9S820100 9Y820063 9A820100 9Y820100 9Y820100 9S820100 9S820113 A18VRP01 9B820031 A18VRP03 9K820351 A18VRP03 A18VRP01
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/XX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6S::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 392/56::VALNUT:ST::ROCHESTER:NH 392/58::WALNUT:ST::ROCHESTER:NH 393/58::WALLIAM LOEB:DR::MANCHESTER:NH 393/58::WALLIAM LOEB:DR::MANCHESTER:NH 300/58::BEPOT POND:RD::MILTON:NH 300/58::DEPOT POND:RD::MILTON:NH 300/175::WHITE MOUNTAIN:HWY::MILTON:NH 3174/108X::SPRING:ST::RARMINGTON:NH 3174/108X::SPRING:ST::RARMINGTON:NH 382/35::WHOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LN::ROCHESTER:NH 327/28::PIERCE:RD::BARRINGTON:NH INSIDED S/S::ROUTE 104::BRISTOL 352/90-2::DL 352:::BERLIN:NH VCR 115, Somersworth, Somersworth SS Keene, Rte 10, P# 29/2Y, 76W7RS VCR 189, Somersworth, Somersworth SS 20W2 S/S Loudon, Rte 106, P# 63/13, 31W1 20W1 S/S	9\$820086 A18WRP02 9N820140 9E820070 9K820125 9K820182 9\$820097 9\$820096 9\$820095 9\$820099 9\$820099 9\$820100 9Y820063 9A820081 9\$820107 9\$820100 9\$820107 9\$820108 9\$820103 148WRP01 9\$820113 A18WRP01 98820351 A18WRP01 98820351 A18WRP01 98820351 A18WRP01
362/186::FARMINGTON:RD::ROCHESTER:NH ::MESSER:ST::LACONIA:NH 3750/2Y::STAR:DR::MERRIMACK:NH 870/17AX::CONCORD:RD::LEE:NH 382/YX::DL 382:::TROY:NH 11/3Y::WEBSTER:ST::JAFFREY:NH 392/8Y::WALNUT:ST::ROCHESTER:NH 392/6S::OAK:ST::ROCHESTER:NH 392/53::OAK:ST::ROCHESTER:NH 392/56::OAK:ST::ROCHESTER:NH 392/57::WALNUT:ST::ROCHESTER:NH 392/58::WASHINGTON:ST::ROCHESTER:NH 392/58::WASHINGTON:ST::ROCHESTER:NH 50/27::WALNUT:ST::ROCHESTER:NH 50/37::WALNUT:ST::ROCHESTER:NH 393/58::WILLIAM LOEB:DR::MANCHESTER:NH 130/5::LAFAYETTE:DR::FRANCONIA:NH 300/58::DEPOT POND:RD::MILTON:NH 300/58::DEPOT POND:RD::MILTON:NH 3174/96X::HENRY WILSON:HWY::FARMINGTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 3174/108X::SPRING:ST::FARMINGTON:NH 318/16::DERRY:RD::LITCHFIELD:NH 3223/35::W-HOLLIS:ST::NASHUA:NH 386/11::FIELDSTONE:LIT:CHFIELD:NH 327/28::PIERCE:RD::BARRINGTON:NH INSIDED S/S::ROUTE 104::BRISTOL 352/90-2::DL 352:::BERLIN:NH VCR 115, Somersworth, Somersworth SS Keene, Rte 10, P# 29/2Y, 76W7R5 VCR TB9, Somersworth, Somersworth SS 20W2 S/S Loudon, Rte 106, P# 63/13, 31W1 20W1 S/S VCR 44H1 S/S need mobile	9\$820086 A18WRP02 9N820140 9E820070 9K820125 9K820182 9\$820097 9\$820096 9\$820095 9\$820099 9\$820099 9\$820099 9\$820100 9Y820063 9A820081 9\$820104 9\$820104 9\$820105 9\$820107 9\$820108 9N820055 9N820120 9\$820113 A18WRP01 9882031 A18WRP01 9882031 A18WRP01 98820351 A18WRP03 A18WRP03 A18WRP01 9L820281 A18WRP01 A18WRP01 A18WRP04
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324/43A	Hazelton Ave	Manchester	9Y820781
92/38	Kelley St	Manchester	9Z920357
34/42	Massabesic St	Manchester	9Y820929
31/30	Taylor St	Manchester	9Y820927
3/11X	Baboosic Lake Rd	Merrimack	9Z920163
48/27	Kings Highway	Middleton	9S721178
585B/9	Hills Ferry Rd	Nashua	9N820691
659/34	Kinsley St	Nashua	9N920463
1264/110	Walnut St	Nashua	9N821079
463/106	Route 11	New Durham	9S920523
17/5	Main Street	New Ipswich	9K822054
19/19	Exeter Rd	North Hampton	9P820654
42/21	Granite St	Peterborough	9K822036
46/1	Sand Hill Road	Peterborough	9K822056
3171/Y-1	Ocean Road	Portsmouth	9P820444
3112/77	Ocean Road	Portsmouth	9P820444
145/125	Rte 1	Portsmouth	9P820580
144/3	Wentworth Road	Portsmouth	9P920188
15/34	WhiteHall Road	Rochester	9S721052
3105/28Y	West Rye Station	Rye	9P820656
81/2Y	West Rye Station	Rye	9P820657
3105/30Y	West Rye Station	Rye	9P820658
7/99	Blackwater Rd	Somersworth	9\$720996
1/33	Main St	Somersworth	9S920385
376/1	Carlton Road	Swanzey	9K822053
383/35	Monadnock Hwy	Swanzey	9K820547
25/13	South Winchester Street	Swanzey	9K822070
3235/1Y	Monadnock Street	Troy	R15WDA01
80/97Y	Stark Hwy	Weare	9Z920139
62/44Y	Richmond Road	Winchester	9K822052
4/136	Lowell Rd.	Windham	9D920440

Peterborough, Pheasant Rd, P# 100/68-6, 313X1A-(N3023 PV)	9K820360
Greenland, Winnicutt Rd, P# 14/29Y, 3191X3	9P820123
Greenland, Portsmouth Ave, (Rte 33), P# 1/123Y, 3191X3A	9P820122
Newfields, Great Bay Cmp Grnd, P# 3229/78, 3229J9	9E820241
Bedford, Moores Crossing, P# 323/15, 323J01	9Z820533
Derry, Crystal Ave, 34/30Y, 32W2R1	9D820178
Derry, Crystal Ave, 34/3X, 32W3R1	9D820179
Derry, South Main St, P# 22/3, 32W5R1	9D820180
Jaffrey, Main St, P# 382/169, 382J4	9K820361
Jaffrey, Highland Ave, P# 115/4, 382X2	9K820347
Jaffrey, Main St, P# 102A/2, 382X3	9K820348
Groveton, Brooklyn St, P# 384/15-2, 384X1	9A820130
Rochester, Walnut St, (Rte 202A), P# 50/91, 392X1A	9S820376
59W2 S/S	A18VRP06
Keene, Court St, P# 192/92, 76W1	9K820354
Keene, Court St, P# W13/58Y, 76W7	9K820632
Keene, Court St, P# 192/93, 76W7	9K820633
Windham, Mammoth Rd, Pole # 3/9, 3133X	9D820442
Londonderry, High Range Rd, P# 11/112, 3128X	9D820443

Docket No. DE 19-057 Exhibit 32 Attachment JED-4

Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 10/28/2019 Date of Response: 11/15/2019

Request No. TS 2-056 Page 1 of 2

Request from: New Hampshire Public Utilities Commission Staff

Witness: Erica L. Menard, Joseph A. Purington, Lee G. Lajoie

Request:

Re: Viper Replacement Project, #A18VRP, 12-045BA. Please provide the following information for this project:

- a. Please reiterate in writing the reasons discussed at the tech session of 10/29 for the purchase of the replacement Nova reclosers as opposed to utilizing manufacturer refurbishing of the Vipers under warranty/recall. Did the warranty include the costs of labor to both remove and reinstall?
- b. Please confirm the unit price of the Nova and Viper reclosers (\$40,000 and 35,000?).
- c. Please confirm the turnaround time for manufacturer refurbishment of the defective Vipers and the maximum amount of reclosers per shipment if applicable.
- d. Was bypassing or removal from service (taps lifted and equipment jumped out) considered as an option while waiting for individual Vipers to be refurbished and returned by the manufacturer if worker safety was an issue? If no, why not? If not, why not?
- At the technical session of 10/29, Eversource stated that the costs of the replacement Nova reclosers were offset by the return, and eventual re-deployment, of the refurbished Vipers.
 - i. How many Vipers were sent in for refurbishment and how many of those have been redeployed in the field?
 - ii. Provide the locations and applicable work orders for those refurbished Viper recloser units reinstalled in the field.
 - iii. Provide the locations and applicable work orders for those Nova reclosers that were placed in the field as replacements for the Viper reclosers.
 - iv. Provide a detailed accounting showing the amounts of labor offset provided by the manufacturer, capital install, capital removal, and maintenance costs for both the Nova reclosers and the Viper reclosers; and a narrative explanation of the offset.

Response:

a) It was imperative to the Company and its customers to remove the known defective Vipers from the distribution system in an expeditious manner. The failing Viper reclosers were causing a significant negative impact to reliability and the violent nature of the failures made the units a safety hazard to the Company's employees and members of the public. As stated previously, pole top distribution automation devices are installed to break large blocks of customers into smaller blocks so a Viper failure resulted in an outage to customers on both sides of the unit. Viper reclosers were shipped back to the manufacturer, refurbished, and then shipped back to the Company. Round trip this took approximately five weeks. Since the Company planned to continue with pole top distribution automation and Vipers had proven unreliable (this was the second manufacturing defect although the first was limited to less than two dozen units) the decision was made to transition to Cooper Nova reclosers and S&C Scadamate switches going

Docket No. DE 19-057 Exhibit 32 Attachment JED-4

Docket DE 19-057 Data Request TS 2-056 Dated 10/28/2019 Page 2 of 2

forward. The defective Viper reclosers were replaced with refurbished Vipers, Nova reclosers, and Scadamate switches, depending on the availability of devices and the application (switch versus recloser). 165 defective Viper reclosers were replaced with refurbished Viper reclosers. 97 defective Viper reclosers were replaced with either a Nova recloser or a Scadamate switch.

- b) Material cost of a Viper recloser was approximately \$23,500 when last purchased. Material cost for a Nova recloser is approximately \$31,600.
- c) Turnaround time for refurbishing Viper reclosers was approximately five weeks.
- d) Units were bypassed and taps removed, however doing so left the Company's distribution system in a more vulnerable state as sectionalization/protection points and SCADA control were eliminated by leaving the devices in this state until replaced. For this reason the defective Viper reclosers were replaced as expeditiously as possible.
- e)
- i: 262 Vipers were sent in for refurbishment and all have been re-deployed in the field.
- ii & iii. See Attachment TS 2-056.
- iv Negotiations with G&W resulted in an agreement for G&W to pay Eversource \$3,300 for labor to install and remove 291 units which were manufactured in 2014-2015 and which therefore had the manufacturing defect for a total of \$960,300. This was partially offset by materials (reclosers) supplied by G&W at no cost totalling \$779,179. The difference, \$181,121 is to be paid by G&W to Eversource and is expected by the end of November 2019.

Minutes 09-12-2018 Meeting

Project Approvals

- 22. A14S08 Garvin's Rebuild Project T. Brown / P. Pinault APPROVED FOR \$5,484,485 WITH COMMENTS
 - Justification for Additional Resources section first bullet, battery addition is identified as "Out of Scope" yet original PAF scope identifies moving the 125VDC batteries to a prefabricated building due to space limitations. Clarification in Supplement need as to whether this was truly out of scope or under scoped; first bullet, Battery addition section, sixth line, change "management" to "it was"; third bullet, Engineering section, second line states "At that time, the scope included extending the Distribution yard and constructing a new control house in the same yard." Correct/resolve this statement in supplement since the original PAF does not include or state this; third bullet, Engineering section, fifth line, change "management" to "it was", remove "grossly"; sixth bullet "Contingency & Escalation", remove table.
 - Actions to Prevent Recurrence section third paragraph, remove last sentence.

Attendance

EPAC Role	Required Members	In-Person	Phone	Voting Designee
Co-Chair	George Wegh	\boxtimes		Ray Gagnon
Co-Chair	John Dipaola-Tromba	\boxtimes		
EPAC Administrator	Farah Omokaro	\boxtimes		
Projects	Tim Revellese			Joe Mayall
Projects	Alexis Ané	\boxtimes		
Project Controls	Raymond Gagnon	\boxtimes		
	James Eilenberger			
	John Case	\boxtimes		
Engineering	John Zicko		\boxtimes	
Engineering	Robert Andrew		\boxtimes	
	Rod Kalbfleisch		\boxtimes	
	Swapan Dey			
Siting & Compliance	Robert Clarke			Kate Shanley
Investment Planning	Leanne Landry			Peter Neidhardt
Integrated Planning & Scheduling	Diana Mahoney			
Compliance	Vicki O'Leary		\boxtimes	
Transmission	Barry R. Bruun			
/System Ops	Brian Dickie			
	Anthony A. Anzalone			
	Rob Bouthiller	\boxtimes		
Field One & Field Engineering	Wayne Gagnon		\boxtimes	
Field Ops & Field Engineering	Marc Geaumont			
	Mark Blanchard			
	Saurabh Sahni			

EPAC Role	Required Attendees	In-Person	Phone
Siting	Kate Shanley		\boxtimes
Siting & Construction Services	Michelle Gallicchio		
Licensing & Permitting	Mark Gardella		
Dragurament	Craig Dikeman		
Procurement	Fran O'Keefe		
	Daniel Foley		\boxtimes
Substation Engineering	Paul Melzen		\boxtimes
	Thelma Brown		\boxtimes
	Dennis Western		
Protection & Controls	John Babu		
	Stuart Hollis		
	Chris Soderman	\boxtimes	
	Mohsen Sahirad		
T Line & Civil Engineering	Jim Bodkin		\boxtimes
	Jamil Abdullah		
	Donald Dibuono		
Transmission Capital Program	Glenn Herman	\boxtimes	
Budget & Investment	Peter Neidhardt	\boxtimes	
Outogo & One Planning	Oswaldo Ortega		
Outage & Ops Planning	David Cloutier		
Standards	Jen Hebsch		

Docket No. DE 19-057 Data Request TS 2-060 Dated 11/01/19 Attachment TS 2-060 Page 1 of 5

Eversource Project Funding Authorization Process Summary

Eversource's Project Management process follows several processes and procedures based on the widely accepted Project Management Institute's ("PMI") best practice Project Management Body of Knowledge ("PMBoK"). This process utilizes the five phases of Project Management which are:

- 1. Initiate
- 2. Plan
- 3. Executing
- 4. Controlling
- 5. Closing

During each of these phases, project funding authorizations may be requested as the scope is identified and refined. As such, there are several types of estimates used by Eversource depending upon the stage of a capital project.

- Order of Magnitude Cost Estimate these are used as a placeholder for evaluating alternatives and identifying preferred solutions for capital projects. This type of estimate is used early within the initiation phase of the project in which high level cost comparisons of alternative projects are needed. These estimates have an accuracy range of -50% and +200%.
- Conceptual Cost Estimate these are used for budget purposes for capital projects. This type of estimate is used in the initial engineering phase of the project (in preparation for Eversource Project Approval Committee "EPAC" authorization). This estimate will be completed to assist the Solution Design Committee in determining the preferred alternative. These estimates have an accuracy range of 25% and +50%.
- Planning Cost Estimates are used to detail the cost of a project used in the planning phase of the project. These estimates are usually -/+25%.
- Engineering Cost Estimate these are used to detail the cost of a project used in the approval and construction phase of the project. This estimate is used when at least 70-90% of the engineering is complete. Often times the pricing of major materials is known at this stage of a project. These estimates have an accuracy range of -10% to +10%.
- Construction Cost Estimate Used to detail the cost of a project used in construction phase of the project. Service contracts for construction, testing and commissioning are generally in place at this stage. These estimates have an accuracy range of -10% to +10%.
- Actual Final Cost actual costs incurred at project completion (after closeout).

The need for revised project funding authorization is part of the process throughout the project lifecycle. Below are a few examples of funding requests during the project lifecycle.

Initiate

Initiating a new project within Eversource typically involves the communication of a need from System Planning (load driven, compliance with standards, etc.) or Asset Management (aging infrastructure, equipment obsolescence, etc.). Initially, there may be several potential solutions to

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address a need and conceptual engineering may be required to develop these options to a point where the alternatives can be evaluated. As part of the process in this stage, a site visit is conducted with high level stakeholders to begin to prepare conceptual plans/drawings to obtain approval for the project. Initial cost estimates are also developed to include preliminary engineering and the initial project planning cost. Consider this "seed" money to get the correct resources in place to begin the Planning Phase of the project. This would include consideration for hiring external resources if Eversource resources cannot handle the work load.

Once a preferred solution is selected, further conceptual engineering and analysis may be required to identify certain project specific risks e.g. likelihood of encountering subsurface ledge or other obstructions during excavation, contaminated soils, etc. At each stage of project development, additional detail is defined, risks are uncovered and where appropriate, mitigated. In parallel with the solution definition, the project's estimated cost is developed and refined to a greater level of accuracy. During conceptual engineering, additional funding approval may be required to assess alternatives and, in some cases, approve physical work, for example soil borings, test pits and soil analysis. This is required to develop the preferred solution to a point where full project funding approval can be requested. Once a preferred solution is identified, Eversource's Solution Design Committee evaluates the proposed solution against the viable alternatives and where appropriate recommends moving forward with project funding approval through EPAC. In other cases, the SDC may request additional work to develop other alternatives or refine the preferred alternative prior to approval.

A Project Authorization Form (PAF) is generated at this stage to obtain project approval from upper Management. The PAF includes an Executive Summary, Project Description, Overall Justification along with Alternatives Considered and a Preliminary Cost Estimate. The Cost Estimate is generated using recent completed projects with a similar scope. It also assumes pricing for known materials and service cost.

Plan

Once project approval is obtained, the Planning Stage begins. The outcome of this stage is to prepare a guide through which the project travels. During this stage, several stake holders, including Eversource Engineering, conduct a site visit to begin developing the detailed scope document for the project. Among other things, the scope document is used to prepare bid documents for outsourcing engineering (or as a road map for internal engineering) as well as additional services as may be required. The contractors that are chosen for Request for Proposals (RFP) are selected by the project team and Eversource Procurement Department considering past experience and cost and schedule track records. When the proposals are received, they are reviewed by several members of the project team, including Eversource Engineering and the Procurement Department. Depending on the complexity of the project, the proposals can vary greatly from the Preliminary Cost Estimates provided in the PAF. Once the engineering resource is selected, 30% design packages are generated and used to obtain RFP's for major materials, Lead Commissioning Engineer (LCE) and several other contractors as needed. During engineering, many unknowns begin to come to light and resource requirements are better understood which assist in the RFPs.

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Historically, full project funding approval was provided based on the conceptual or planning cost estimate, but in recent years Eversource has transitioned to a staged project sanctioning approach with initial funding provided to develop the detailed engineering and risk mitigation. Once the scope is known in detail, full funding approval is requested which allows for the purchase of engineered equipment with long lead times and the placing of contracts for construction, testing and commissioning, etc. This stage-gate approval approach creates more certainty over actual final cost because the engineering is completed and firm pricing for major materials and when appropriate construction, test and commissioning is available.

Even with the staged approval process, during project execution it is not unusual for unforeseen issues to materialize. These issues include finding buried objects not identified on drawings, changes to approach based on feedback from local stakeholders, storms, equipment failures, emergent outage constraints, etc. To respond appropriately, the Project Manager may need to commit additional resources, identify alternative ways of working, etc. These deviations from the original scope can also affect the project cost estimate.

After receipt of all proposals, the known project costs are compared to the authorized full funding project estimate. If the pricing is in line with the full funding authorization, no requests are made for additional funding. However, if the cost exceeds the initial estimate, a Supplemental Request Form (SRF) may be required for supplementary funding. In circumstances where the project direct costs are forecast to exceed the authorized direct funding by 10% or more, Eversource's project controls require the Project Manager to request supplemental project approval by returning to EPAC and explaining the need for additional project resources be that additional internal labor, outside services, or materials.

When the planning is well underway, and the requested contracts are implemented, the Executing phase begins. During this phase, the work that was planned is carried out. In the early part of this stage, environmental testing is conducted to determine if there are any environmental hazards that need to be remediated. This is normally added as a risk in the PAF or SRF and a dollar value is applied. However, there are some instances where the amount of remediation is much more extensive than anticipated and the costs are much higher than identified as part of the risk. This may also be the case when civil and electrical construction is underway, and unknowns arise. Another submission of the SRF may be needed to capture these costs as well.

Execute/Control

During the Executing Phase, the cost & schedule controls are put in place as part of the Controlling Phase. Weekly Project Meetings are held to discuss the construction progress and the remaining work to be done. From time to time, the weather, as well as storm related outages, can cause schedule delays. The outcomes of these delays can result in change orders from the contractor to cover additional time/resources needed to complete the projects. These change orders are reviewed by the project team to negotiate pricing and confirm that the request is indeed out of scope. Monthly cost meetings are also conducted which include the Eversource Project Management and Upper Management teams. During these cost meetings, the cost controls are discussed, reviewed and recommended corrective actions are implemented as needed. If, at any

Docket No. DE 19-057 Data Request TS 2-060 Dated 11/01/19 Attachment TS 2-060 Page 4 of 5

time during the Executing Phase, the cumulative effect of project change or contract change orders results in a variance of 10% or greater in direct project cost, then an additional Supplemental Funding Request would be required.

No supplemental request should be required during the Closing Phase.

Indirect Project Costs

All Eversource projects are assessed indirect costs from several overhead categories. These include, but are not limited to:

- Internal labor overheads (employee benefits, etc.)
- Stores (applied to materials ordered through our stock room)
- Engineering and Supervision (E&S)
- Misc. Distribution Expense (MDEC)
- Administrative (AS&E)
- AFUDC (cost of money)

Each of these overheads is assessed at a rate defined by the corporation and is applied to the appropriate category of direct costs charged to the project. These rates vary over time and are adjusted with some frequency.

Indirect costs are included in each type of project estimate and are based upon the rates at that time and the categories of direct costs anticipated at that time.

Variations in the value of indirect costs can come from four basic sources:

- 1. Variation in overhead rate generally more of an influence on long duration projects
- 2. Increase (or decrease) in direct project costs often seen as the project scope becomes more well defined and direct costs are known. This can be the result of increase in project scope or higher than expected contract service costs due to market conditions.
- 3. Change from internal resources to contracted (external) resources or vice versa this would impact the internal labor overheads which are significant, but often comes with an increase or decrease to the direct cost for external labor, ie. true cost of internal labor shows up as a direct labor cost and a labor loader, whereas external labor does not get a labor loader (we are billed a "loaded" rate by vendors). Both will be assessed other applicable overheads such as E&S, MDEC and AS&E.
- 4. Change from owner furnished to contractor furnished materials contractor furnished materials will not be assessed the Stores overhead, though usually include a contractor markup. Again, not a large overall difference in project cost, but potentially a noticeable variation in indirect costs.

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Though variations (increases) in indirect project costs do not drive the need to secure additional project funding for distribution projects, they do contribute to overall project cost and are included in monthly project forecasting and reporting.

The E&S rate tends to be the most volatile and can result in large variations in overall indirect cost

000161

Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 08/13/2019 Date of Response: 08/28/2019

Request No. OCA 6-097 Page 1 of 1

Request from: Office of Consumer Advocate

Witness: Erica L. Menard

Request:

Reference Menard Testimony, Attachment ELM-2 (Perm), Bates 1160, Line 64, describing a rebuild at Garvins substation that resulted the Company booking approximately \$5.3 million to account 362890, distribution station equipment.

- a. Please provide a brief narrative summarizing the project.
- b. Please provide the Project Authorization Form and any planning area studies that were completed for this project.
- c. If the Company conducted any analyses consistent with its TD 190 relating to the feasibility of non-wire alternatives to the transformer upgrade, please provide those analyses. If the Company did not conduct such analyses, please explain why this is the case.
- d. If the Company's justification for not studying the feasibility of non-wire alternatives is based on asset condition or project lead time, please provide documentation supporting those justifications.

Response:

a.	
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Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 10/28/2019 Date of Response: 11/18/2019

Request No. TS 2-060 Page 1 of 2

Request from: New Hampshire Public Utilities Commission Staff

Witness: Erica L. Menard, Joseph A. Purington, Lee G. Lajoie

Request:

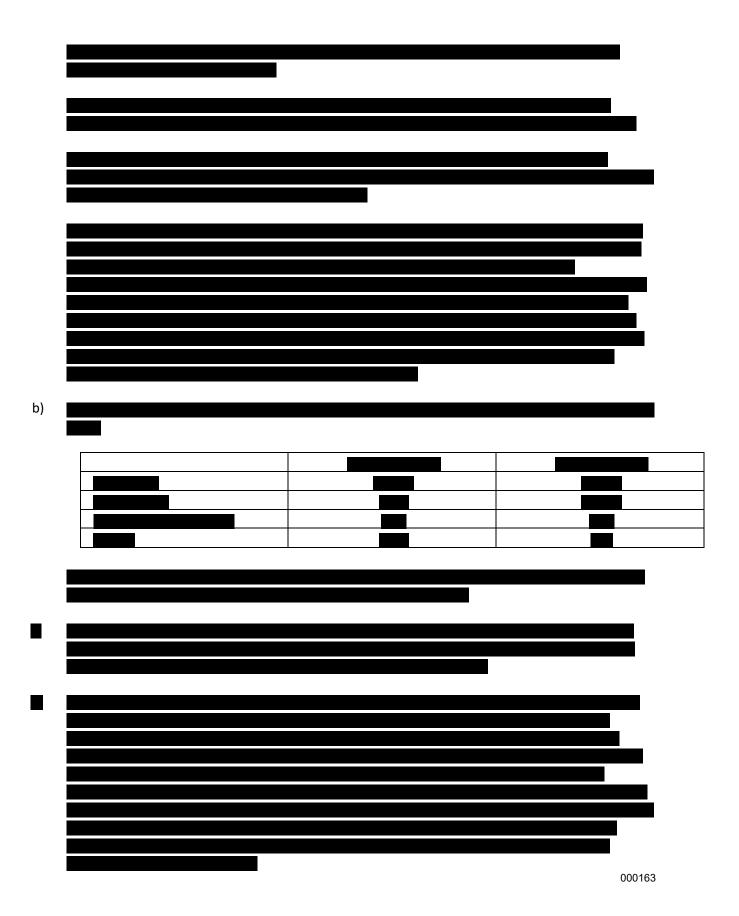
Re: Gavins Substation Rebuild, #A14S08, OCA 6-097 (CONFIDENTIAL). Please provide the following information for this project:

- a. Re: Justification for Additional Resources at pages 3-4: Explain why the initial scoping and design of the project overlooked or failed to consider these cost driving factors. Were the design/scoping engineers interviewed by Management to determine the root cause for these omissions? If not, why not? If yes, what were the results of those discussions? Why was EPS directed by Eversource Engineering to provide additional resources above and beyond what was agreed upon in the PO proposal and what were the unforeseen complications with the protection and control system?
- b. Please provide an itemized break-out of overheads, AFUDC, and other costs leading up to the variance?
- c. Re: Actions to Prevent Recurrence at page 4: Explain why the site was not visited and spec'd out by Eversource engineers during the original scoping and design of the project.
- d. At any time did Project Managers work with project cost analysts to control cost escalation for this project? If not, why not? If yes, what were the results? Given the monthly reports received by Management, was Management actively involved in controlling the cost escalation of this project? If not why not? If yes, were cost controls put into place?

Response:

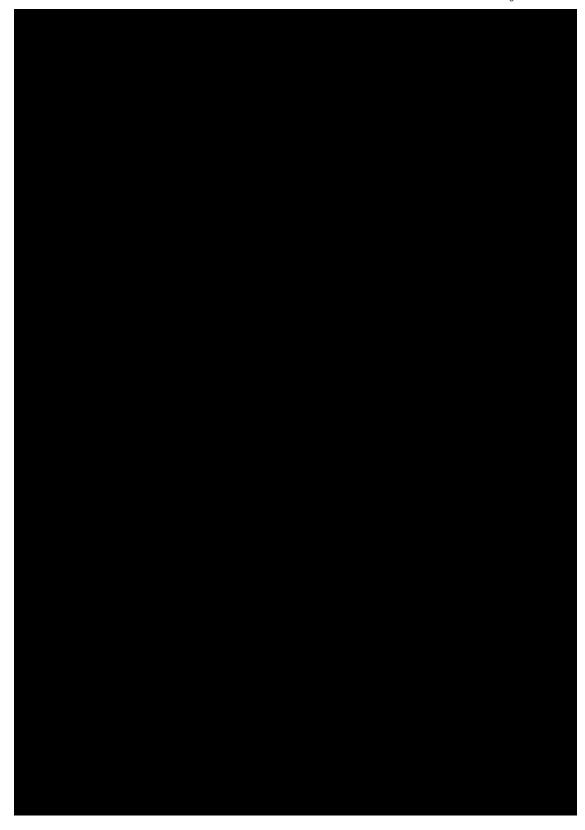
Clarifications and refinements to the scope and cost estimate in the normal evolution of the project are to be expected and do not constitute "omissions." Eversource Management is informed of such changes in the normal course of monthly project reporting. The preliminary engineering and original estimate did not "fail" to consider these items, nor were the items missed. The engineering and project-cost estimation process is iterative and involves graduated stages of information gathering, assessment, estimation and projections that are refined to a final pre-construction cost based on detailed project plans and detailed cost assessments. The cost estimates derived on the basis of conceptual-level engineering plans and preliminary cost projections are not intended to serve as the basis for final, pre-construction starting points for the project. Therefore, the premise that costs were "overlooked" is false.

a)	

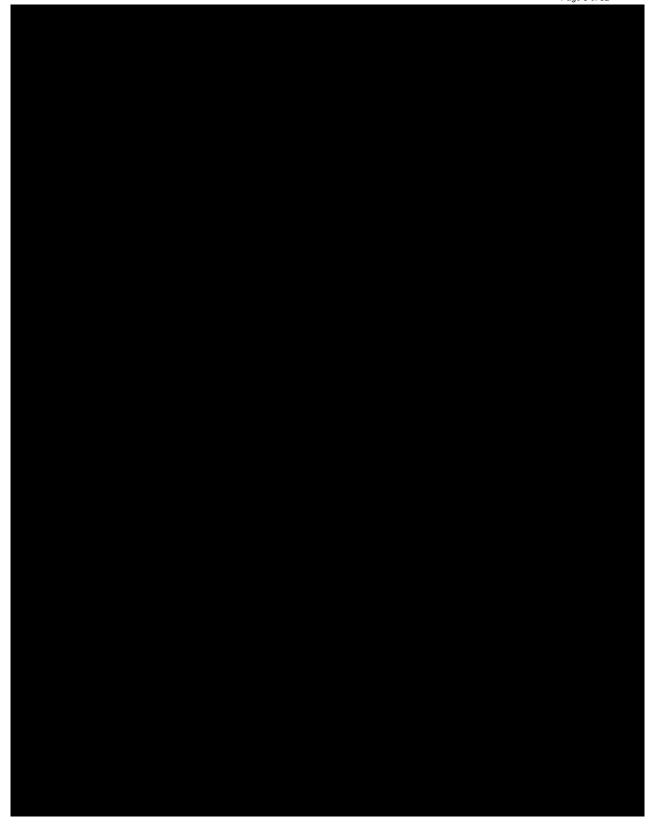


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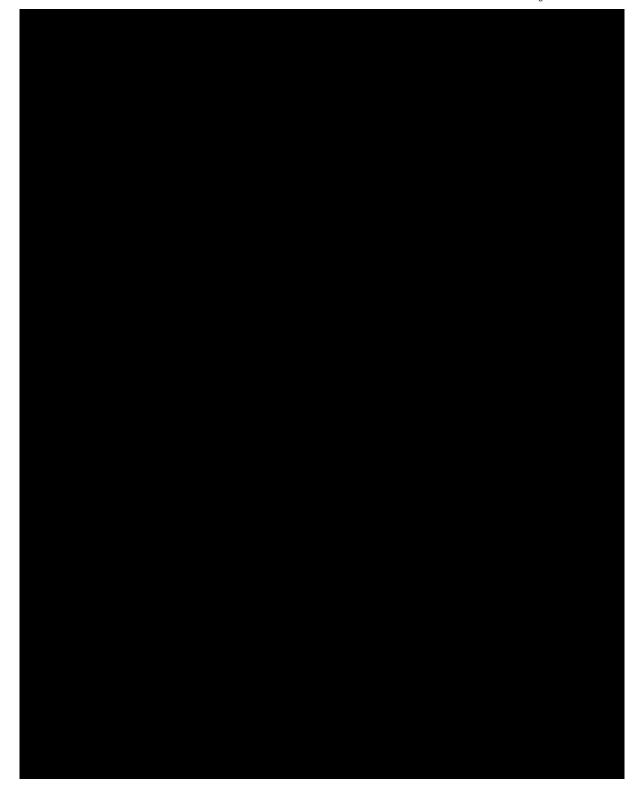


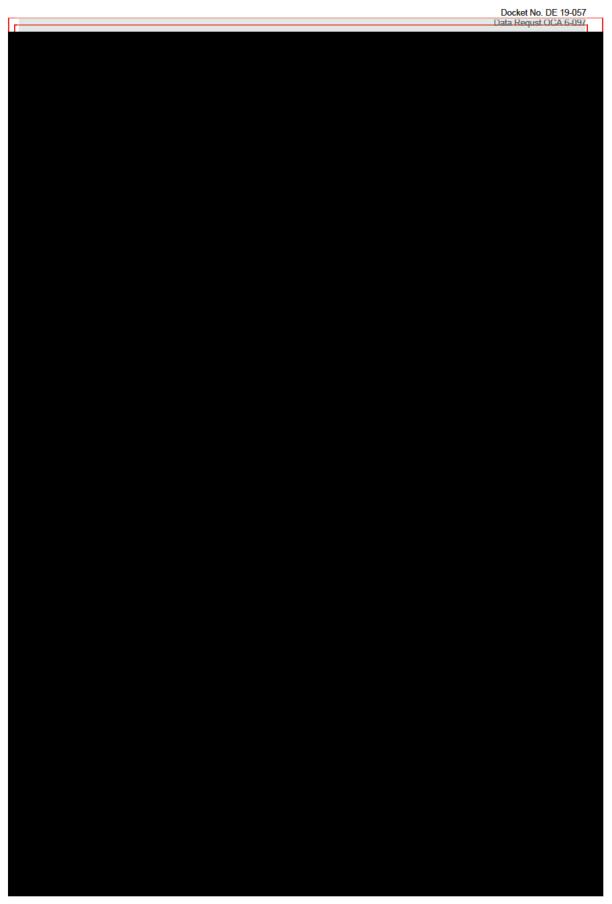
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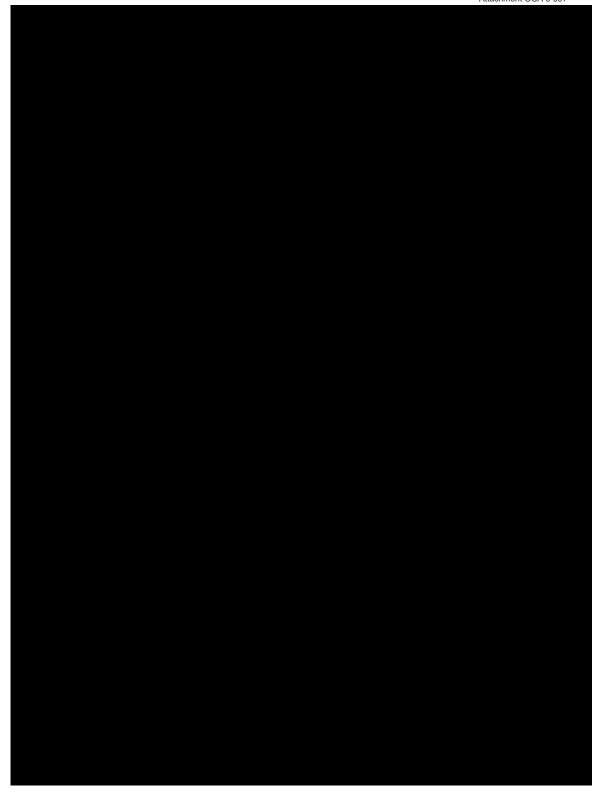
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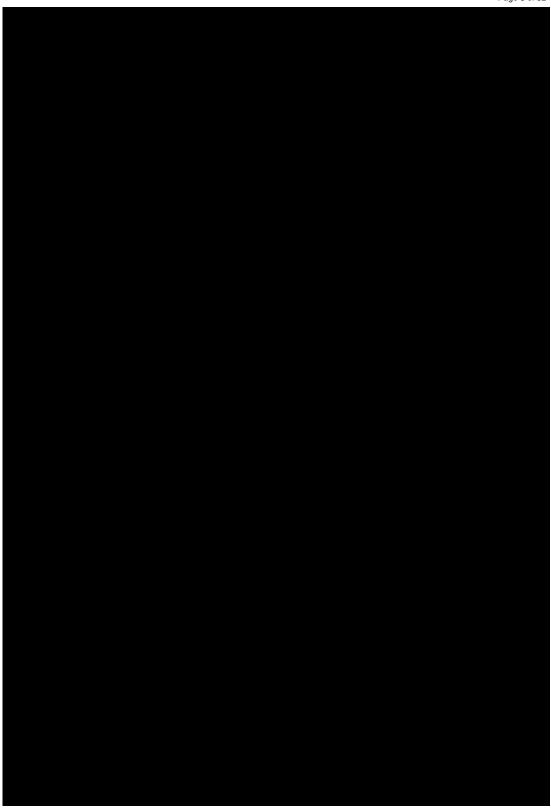




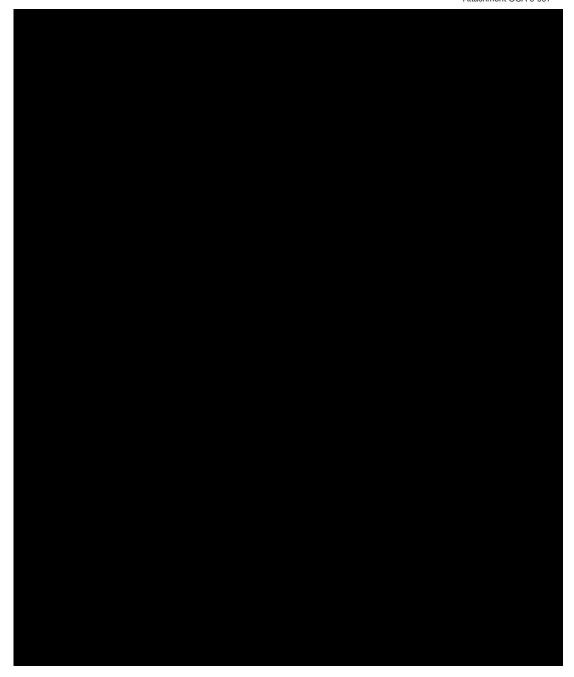
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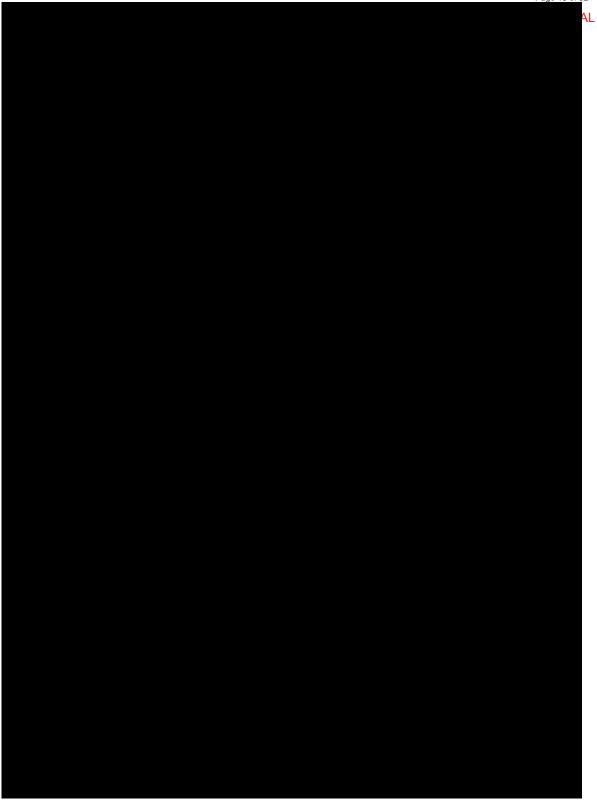
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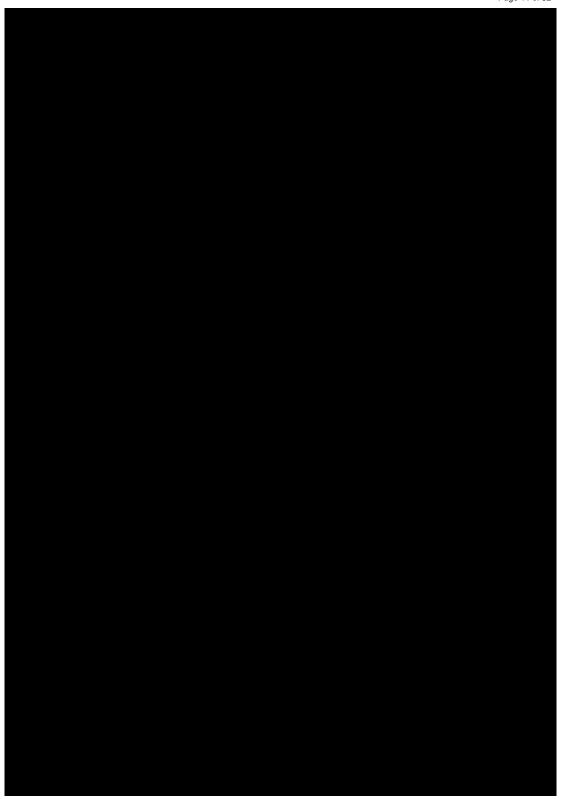
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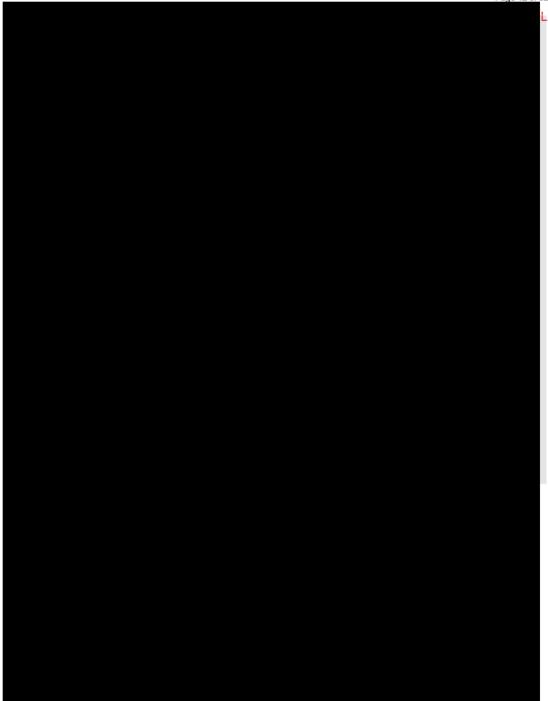
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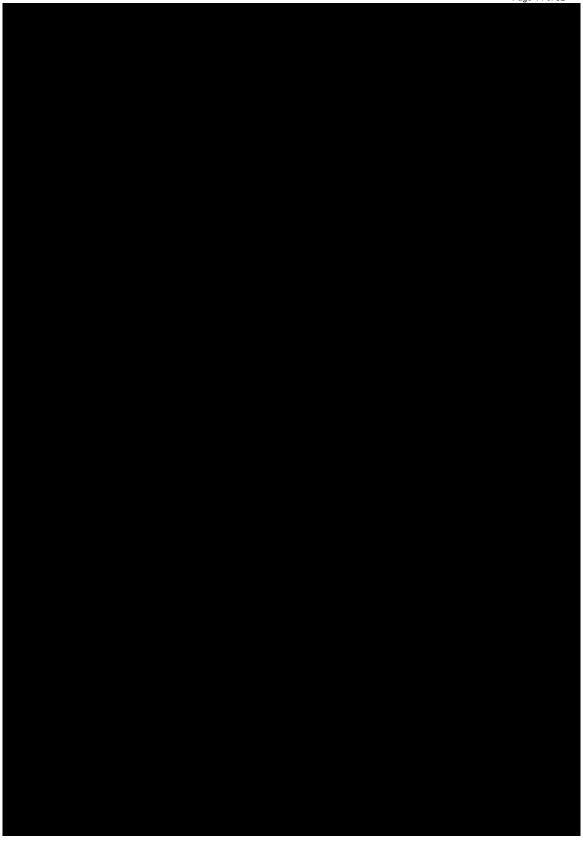


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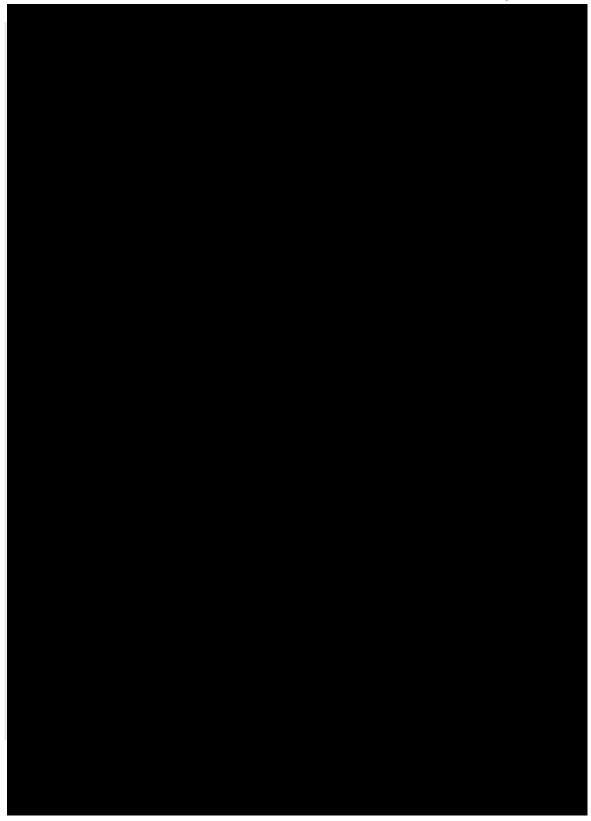


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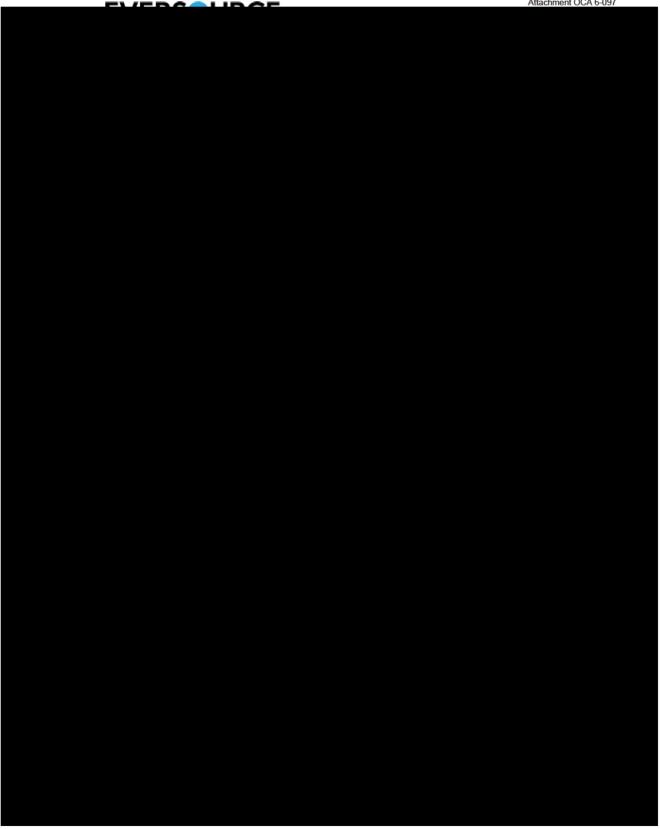
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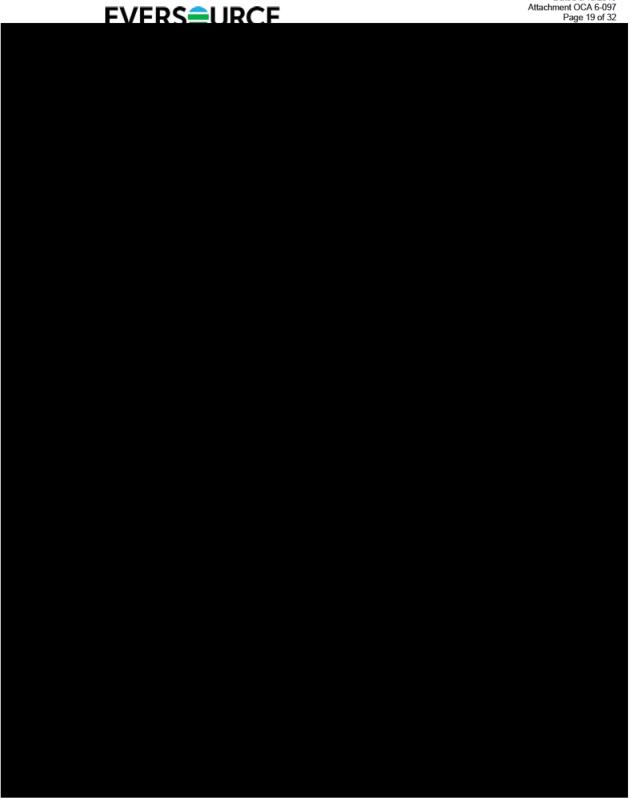


Accounting Policy Statement No. 2

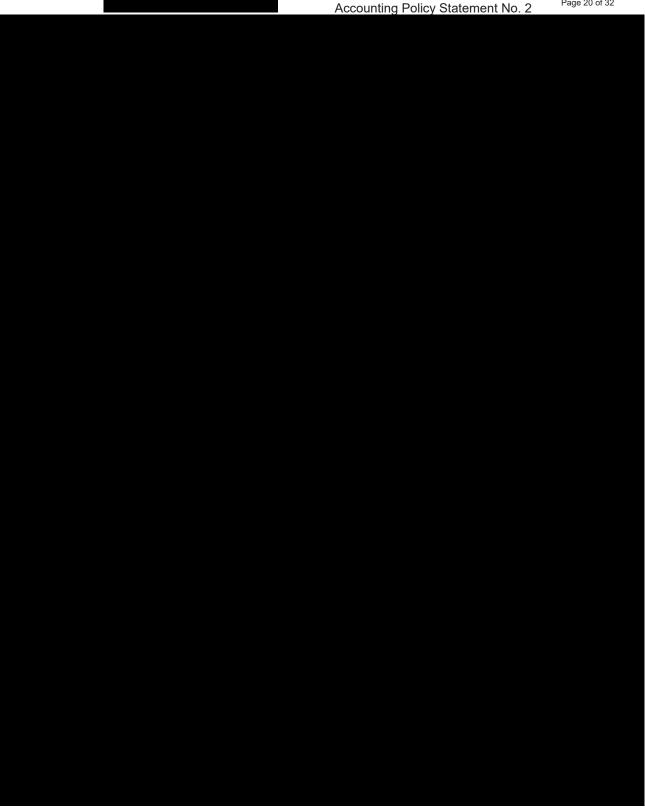
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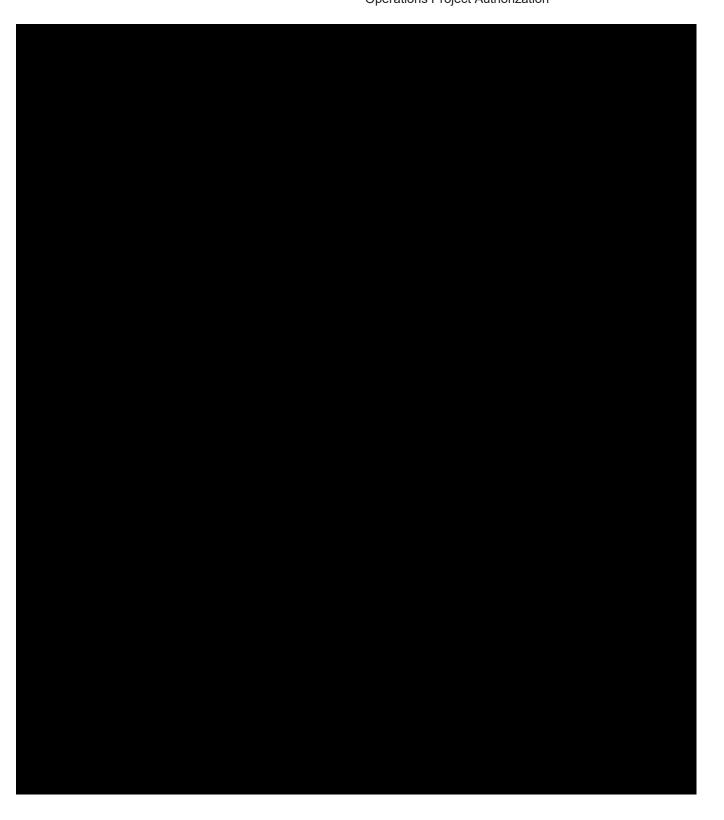
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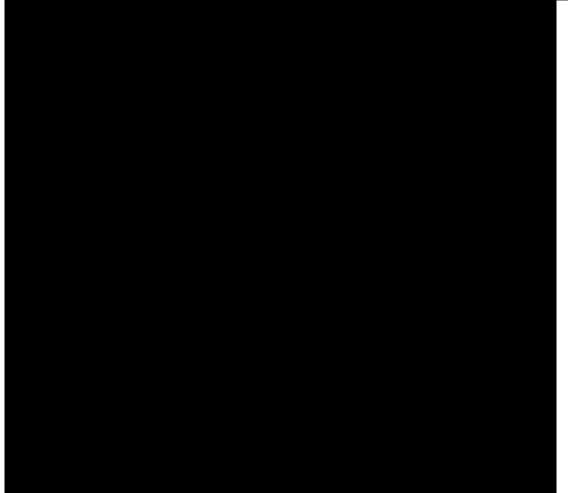




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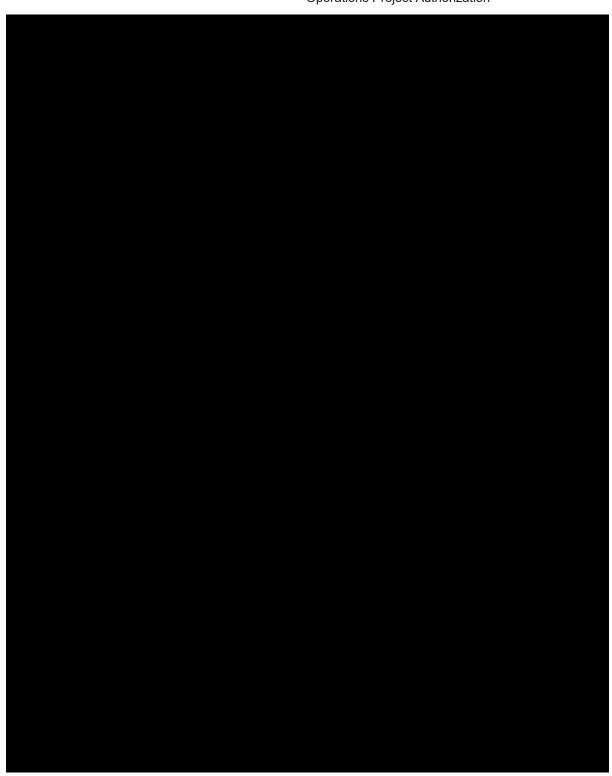


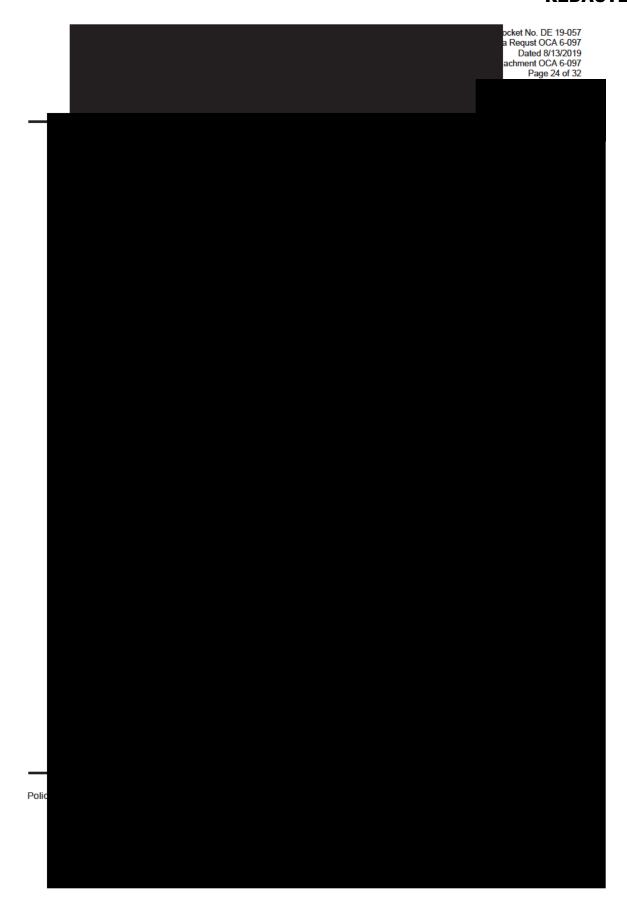


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Accounting Policy Statement No. 2 Operations Project Authorization



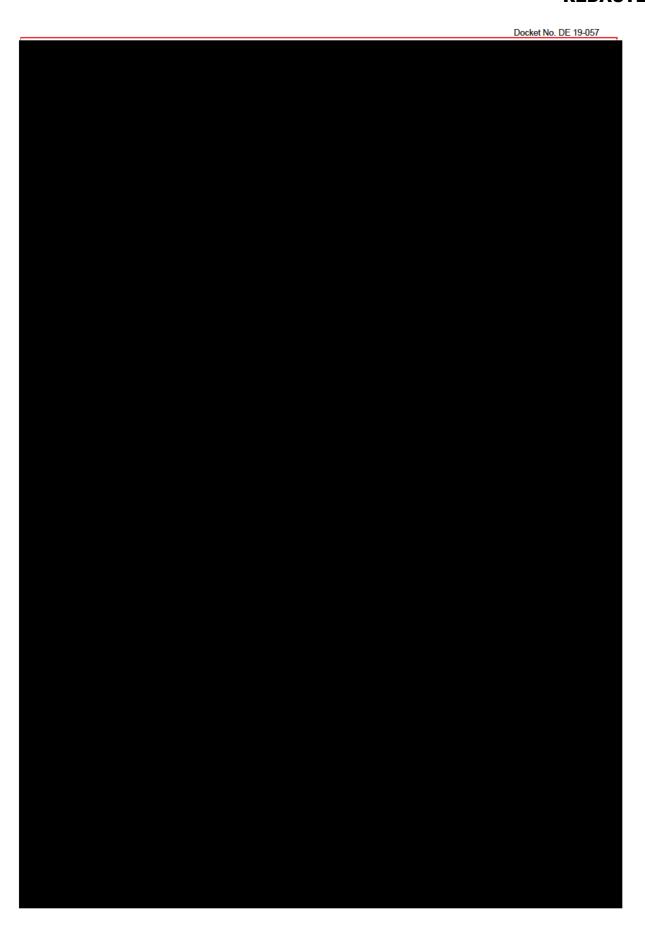


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Accounting Policy Statement No. 2 Operations Project Authorization

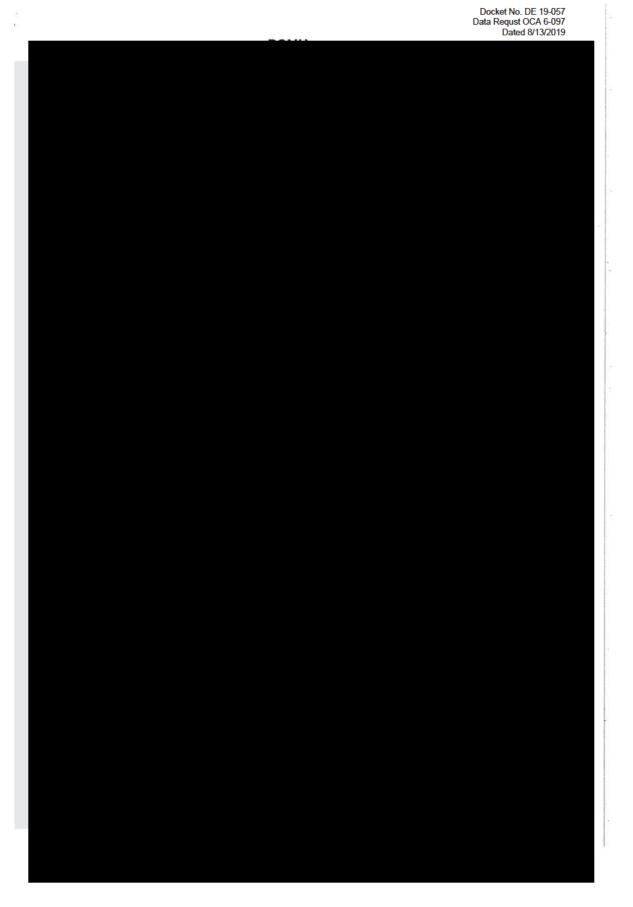


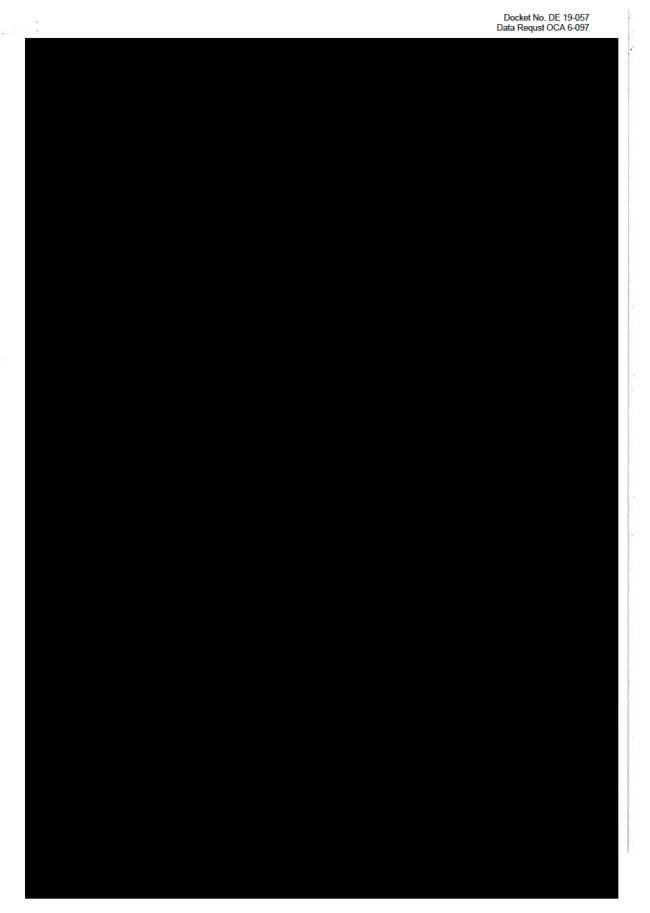


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Public Service Co of New Hampshire Project Approval Information

Docket No. DE 19-057 Data Request STAFF 12-045
Dated 9/20/2019 Attachment STAFF 12-045 AD Page 1 of 18

Fund Project Number A14N21

Status open

Revision 52

Project Title BERLIN EASTSIDE 34.5KV LINE BREAKER

Operating Unit

Initiated By PWRPLANT

Initiated Date 1/1/2001 00:00:00

Description BERLIN EASTSIDE 34.5KV LINE BREAKER ADDITION

of Work

Location

DIST SUBS - NEW HAMPSHIRE

	Project Schedule	/ Expenditures	1	Est Start Date :	1/1/2014	Est Complete Date :	5/31/2018
	2014 \$72.885.75	2015 \$4.685.20	2016 \$781.146.02	2017 \$2,222,320,03	2018 \$565,000.00	Future Years \$0.00	Total \$3,646,037
	****	Capital	Expense	Removal	Retirements	Credits	93,040,037
١	Cost Breakdown	\$3,610,850	\$0	\$35,187	\$0	\$0	\$3,646,037.00

Reason For Work

Background Information

Approvals

Level	Approver	Approval Limit	Date Approved
Project Manager	Snow_TERMINATED, Hutton	\$0	4/3/2018
Plant Accounting	Salbinski, Chris	\$0	4/3/2018
Manager - Investment P	la Menard, Erica	\$50,000	4/4/2018
Director - EPAC Chair	Dipaola-Tromba, John	\$250,000	4/5/2018
Director - EPAC Chair	Wegh, George	\$250,000	4/23/2018
Vice President - Electric	Pı Purington, Joseph	\$1,000,000	5/15/2018
Sr. VP Electric Engineering	nį Khan, Aftab	\$5,000,000	5/16/2018
Sr. VP/President - Ops	Quinlan, William	\$5,000,000	6/1/2018

Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 AD Page 2 of 18

Supplement Request Form Approved at March 28, 2018 EPAC Link to Meeting Minutes

Date Prepared: March 22, 2018	Project Title: Berlin 3525 Breaker Addition
Company/Companies: Eversource NH	Project ID Number: A14N21, A14N2101
Organization: NH Operations	Plant Class / (F, P, Type): Distribution
Project Initiator: Sam Bosse	Project Type: Specific
Project Manager: Hutton N. Snow	Capital Investment Part of Original Operating Plan? Yes
Project Sponsor: James Eilenberger	O&M Expenses Part of the Original Operating Plan? N/A
Current Authorized Amount: \$1,308,101	Estimated in service date(s): June 1, 2017
Supplement Request: \$2,337,936	Other:
Total Request: \$3,646,037	

Supplement Justification

Background

The Project Authorization Form (PAF) for the Berlin 3525 Breaker Addition project was approved in March 2016. At that time, the project was approved at a cost of \$1,308,101 with a planned in-service date of December 2016. The total project cost was based on direct costs of \$1,070,747 with indirect costs of \$222,359 and AFUDC of \$14,995. No contingency was included.

Executive Summary

This supplemental funding request of \$2,337,936 is being made to cover the total cost of the 3525 Breaker Addition project at Berlin s/s in Berlin, NH. Since early 2017, direct costs have increased by \$1,767,444 and associated increases in indirect costs are \$574,865. AFUDC has decreased by \$4,373. The initial estimate contained very little breakdown of the of the cost components and did not account for various critical resources such as a commissioning engineer or for the necessary line modifications required. Therefore, a direct tie back to the original does not exist for many of the actual costs. Other items such as engineering and testing were severely underestimated. The following table summarizes the increases and comparison to the original estimate:

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		Current							
<u>Item</u>	Α	<u>uthorized</u>	To	go	To	otal Cost	Ne	et Increase	<u>Comments</u>
Capital Additions - Direct, Other	\$	120,942	\$	-	\$	-	\$	(120,942)	Distributed in details below
ENR/PM/Siting - LT	\$	35,387	\$	-	\$	120,007	\$	84,620	Add'l design review time, scope refinement
ENR/PM/Siting - Leidos	\$	-			\$	593,693	\$	593,693	No contract engineering in original estimate
ENR/PM/Siting - GZA	\$	-	\$	-	\$	97,022	\$	97,022	Encountered significant contaminated soils
Property Taxes	\$	-	\$	-	\$	27,994	\$	27,994	Not previously applied to capital projects
ENR/PM/Siting - Other	\$	-	\$	-	\$	74,869	\$	74,869	Not included in original estimate
Materials	\$	161,641	\$	-	\$	382,446	\$	220,805	Line materials and Cianbro furnished materials
Construction - LT	\$	-	\$	-	\$	160,839	\$	160,839	Full time standby coverage, additional CR time
S/S Construction - Cianbro	\$	700,000	\$335	,608	\$	723,775	\$	23,775	Bid plus COs for contaminated soil
Line Construction - JCR			\$	-	\$	362,862	\$	362,862	Not included in original estimate
Line Construction - USA			\$	-	\$	116,201	\$	116,201	Not included in original estimate
Construction - Other			\$	-	\$	75,518	\$	75,518	Not included in original estimate
Testing - LT			\$	-	\$	11,587	\$	11,587	Not included in original estimate
Testing - Elect Test	\$	52,777	\$	-	\$	135,098	\$	82,321	Under estimated
Testing - LCE (W/M)			\$ 42	,522	\$	217,000	\$	217,000	Not included in original estimate
Reimbursements			\$	-	\$	(260,720)	\$	(260,720)	Salvage Value
Removals	\$	-			\$	-	\$	-	
Total - Direct Spending	\$	1,070,747	\$378	,130	\$2	2,838,191	\$	1,767,444	
Capital Additions - Indirect	\$	222,359	\$113	,439	\$	797,224	\$	574,865	
AFUDC	\$	14,995	\$ 3	,000	\$	10,622	\$	(4,373)	
Grand Total	\$	1,308,101	\$494	,569	\$3	3,646,037	\$	2,337,936	

Supplement Cost Summary			
Note: Dollar values are in thousands:			
Capital Additions - Direct	1,071	2,027	3,098
Less Customer Contribution	0	0	0
Removals net of Salvage%	0	-260	-260
Total Direct Spending	1,071	1,767	2,838
Capital Additions - Indirect	222	575	797
AFUDC	15	-4	11
Total Capital Request	1,308	2,338	3,646
O&M	0	0	0
Total Request	1,308	2,338	3,646

Note: Dollar values are in thousands:

Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 AD Page 4 of 18

Total Supplement Request by year view:

	Year 2017	Year 2018	Year 20+	Total
Capital Additions - Direct	1,607	450	0	2,057
Less Customer Contribution	0	0	0	0
Removals net of Salvage%	-290	0	0	-290
Total Direct Spending	1,317	450	0	1,767
Capital Additions - Indirect	463	112	0	575
AFUDC	-7	3	0	-4
Total Capital Request	1,773	565	0	2,338
O&M	0	0	0	0
Total Request	1,773	565	0	2,338



Docket No. DE 19-057 Data Request STAFF/12-045 Dated 9/20/2019

Accounting Policy Statement No. 2 STAFF 12-045 AD Operations Project Authorization

Project Authorization Form

General Information

Date Prepared: 03/07/2016	Project Title: Berlin Breaker Addition
Company: Eversource - NH	Project ID Number: A14N21
Organization: NH Operations - Substation	Class(es) of Plant: Distribution
Engineering	
Project Initiator: Sam Bosse	Project Category: Basic Business
Project Owner/Manager: Hut Snow	Project Type: Specific
Project Sponsor: Jim Eilenberger	Project Purpose: Part of regulatory tracked program? No
Estimated in service date: 12/31/2016	Capital Investment Part of Original Operating Plan? Yes
If Transmission Project: No	Supplement to Existing Authorization? Yes
	O&M Expenses Part of the Original Operating Plan? No

Enterprise Risk Management (ERM) and Financial Planning and Analysis (FP&A)	
ERM:	
FP&A:	_

If Chief Executive Officer or subsidiary board approval is required, document the review by

Executive Summary

Berlin S/S (115/34.5 kV) has three independent issues that have been combined into one project to gain efficiencies. The three items are:

- Add a 34.5 kV line breaker- Both the 3525 and 3521 lines are fed from a single breaker (7,601 total customers) so the addition of a line breaker will allow each circuit to have their own breaker improving reliability.
- 2) Add a grounding bank to Berlin S/S- Berlin S/S gets its ground source from transformer TB 83 and secondly from an old grounding bank that is part of the obsolete feed to Brookfield Hydro. Pending completion of a new feed to Brookfield Hydro (being installed by the customer) the 62 year old gassing transformer and grounding bank currently feeding Brookfield will be removed requiring a new grounding bank to be installed and
- 3) The completion of the upgrade to the nearby Community Street 4 kV substation eliminated the need for the 55 year old 4 kV substation at Berlin so the transformer and switchgear will be removed as part of this project.



Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019

Accounting Policy Statement No. 2

Attachment STAFF 12-045 AD Page 6 of 18

Operations Project Authorization

Project Costs Summary

(\$000)	Prior Authorized*	Prior Spend*	2016	2017	Totals	Supplemental Authorization*
Capital Additions - Direct	\$ 461	\$ 50	\$ 920	\$	\$ 970	
Customer Contribution				\$	\$	
Removals net of Salvage		\$ 1	\$ 100	\$	\$ 101	
Total - Direct Spending	\$ 461	\$ 51	\$ 1,020	\$	\$ 1,071	\$ 610
Capital Additions - Indirect	\$ 183	\$ 27	\$ 195	\$	\$ 222	
Subtotal Request	\$ 644	\$ 78	\$ 1,215	\$	\$ 1,293	
AFUDC		\$2	\$13	\$	\$ 15	
Total Request	\$ 644	\$ 80	\$ 1,228	\$	\$ 1,308	

^{*} to be completed if supplemental authorization is required

Summary Project Description

The project includes adding a 34.5kV line breaker, adding a grounding bank and removing obsolete equipment at Berlin (Eastside) substation.

- 1) Add a new breaker which will feed the 3525X line. This will improve the area reliability by feeding the 3525X line on its own breaker instead of having both the 3525X Line (3,233 customers) and 3521X line (4,368 customers) fed from a single breaker;
- 2) The 34.5-22kV 62 year old transformer TB254 and the 1948 vintage OCB will not be required to feed Gorham Paper & Tissue load when their new 115-22kV substation is completed in early 2016. Prior to de-energizing and removing TB254 a new ground bank is required as it is the backup ground source for the substation when the main transformer TB 83 is taken out of service or trips out. (NOTE: The second 115-34.5kV transformer (TB115) feeding Berlin S/S is connected wye-delta therefore it does not provide a ground source). Without a ground source the voltage would fluctuate outside NHPUC limits at 34.5kV for all customers fed only from TB115 so installation of a ground bank on 34.5kV Bus 1 is included in this project and
- 3) Remove the 55 year old 34.5-4kV transformer (TR158) and corresponding 59 year old switchgear which was de-energized when Community Street S/S was rebuilt and energized to feed the 4kV Berlin load.



Docket No. DE 19-057
Data Request STAFF 12-045
Dated 9/20/2019
Accounting Policy Statement No. 2 STAFF 12-045 AD
Operations Project Authorization

Project Authorization

Approver	Approver Name	Approver Signature	Date
Project Initiator	Sam Bosse		
Project Manager	Hutton Snow		
Plant Accounting	Michelle Roncaioli		
Manager Substation	Thelma Brown		
Director	James Eilenberger		
Senior Vice President	Peter Clarke		

Overall Justification

To provide a separate breaker for the 3525X line and 3521 line which combined serve 7,601 customers. This project provides for a second ground source for the substation (necessary when the old TB 254 is removed) and removes obsolete and out of service equipment.

Project Scope

- -Remove 34.5-22kV transformer and OCB.
- -Install a 34.5kV breaker for the 3525X line
- -Install ground bank on the 34.5kV bus one (1).
- -Remove 34.5- 4kV transformer and 4kV switchgear.

Project Objectives

Separate the 3525X and 3521X lines to be fed by two breakers. Currently there are 3,233 customers on circuit 3525X and 4,368 customers on 3521X.

Remove obsolete equipment while completing the breaker installation in Berlin East Side SS. Over the past year it has been determined that doing all removals in conjunction with the new installation is more efficient than designing multiple projects and mobilizing multiple times.

Business Process and / or Technical Improvements:

- -Reliability
- -Removal of obsolete equipment

Assumptions

Contractor will mobilize once for all portions of the construction.

Policy Sponsor: EVP & CFO Page 3 of 5 7/7/15 DRAFT



Docket No. DE 19-057
Data Request STAFF 12-045
Dated 9/20/2019
Attachment STAFF 12-045 AD

Accounting Policy Statement No. 2

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Operations Project Authorization

Alternatives Considered

- Some de-energized equipment can remain on-site which may save some removal costs.
 However, the transformer TB254 and associated equipment needs to be removed in
 order to utilize the bay position to feed the new 3525X breaker. Savings for this
 alternative would be minimal.
- 2) Do not separate the 3525X circuit from the 3521X line breaker but remove obsolete equipment. This would leave 7601 customers on a single breaker and not provide a looped system between two breakers.
- 3) Replace the wye-delta 115-34.kV transformer TB115 instead of installing a ground bank. This would be an additional \$2M to provide a new transformer. Additionally, the wye ground at the 115kV side of TB115 is still preferred to act as a ground source for the 115kV system in this area.

Project Schedule

Milestone/Phase Name	Estimated Completion Date			
Engineering	8/1/16			
In Service	12/30/16			



Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019

Accounting Policy Statement No. 2 STAFF 12-045 AD Page 9 of 18 Operations Project Authorization

Financial Evaluation

Direct Capital Costs (\$000)	2014	2015	2016	Total
Straight Time Labor	\$ 14	\$ 1	\$ 20	\$ 35
Overtime Labor	\$			\$
Outside Services	\$ 3	\$	\$ 750	\$ 753
Materials	\$ 32	\$	\$ 130	\$ 162
Other, including contingency amounts (describe)	\$ 1	\$	\$ 120	\$ 121
Total	\$ 50	\$ 1	\$ 1,020	\$ 1,071
Indirect Capital Costs (\$000)	2014	2015	2016	Total
Benefits / Loaders	\$ 23	\$ 3	\$ 195	\$ 222
Capitalized interest or AFUDC, if any	\$ 1	\$ 1	\$ 13	\$ 15
Total	\$ 24	\$ 5	\$ 208	\$ 237
Total Capital Costs	\$ 74	\$ 6	\$ 1,228	\$ 1,308
Total O&M Costs				
Total Project Costs (\$000)	\$ 74	\$ 6	\$ 1,228	\$ 1,308

Regulatory Approvals

Permitting may be required by the City of Berlin.

Risks and Risk Mitigation Plans

None identified.

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Minutes 03-28-2018 Meeting

- 9. Berlin 3525 Breaker Addition D. Plante APPROVED FOR \$3,646,037 WITH COMMENTS
 - Date Prepared changed to March date.
 - Plant Class add Substation.

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Attendance

EPAC Role	Required Members	In-Person	Phone	Voting Designee
Co-Chair	George Wegh	\boxtimes		
Co-Chair	John Dipaola-Tromba		\boxtimes	
EPAC Administrator	Farah Omokaro	\boxtimes		
Drainata	Tim Revellese		\boxtimes	
Projects	Alexis Ané			
Project Controls	Raymond Gagnon		\boxtimes	
	James Eilenberger			
	John Case	\boxtimes		
Engineering	John Zicko		\boxtimes	
Engineering	Robert Andrew			
	Rod Kalbfleisch			
	Swapan Dey			
Siting & Compliance	Robert Clarke			
Investment Planning	Leanne Landry			Glenn Herman
Integrated Planning & Scheduling	Diana Mahoney			
Compliance	Vicki O'Leary		\boxtimes	
Transmission	Barry R. Bruun			
/System Ops	Brian Dickie			
	Anthony A. Anzalone			
	Charles Fontenault			
Field Ops & Field Engineering	Donald Boudreau			
I leid Ops & Fleid Eligilieellig	Marc Geaumont			
	Mark Blanchard		\boxtimes	
	Saurabh Sahni			

Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 AD Page 12 of 18

EPAC Role	Required Attendees	In-Person	Phone
Siting	Kate Shanley		\boxtimes
Siting & Construction Services	Michelle Gallicchio		
Licensing & Permitting	Mark Gardella		
Procurement	Craig Dikeman		
Procurement	Fran O'Keefe		
	Daniel Foley		
Substation Engineering	Mark Bellandese		\boxtimes
	Thelma Brown		
	Dennis Western		
Protection & Controls	John Babu		\boxtimes
	Stuart Hollis		\boxtimes
	Chris Soderman	\boxtimes	
	Mohsen Sahirad		\boxtimes
T Line & Civil Engineering	Jim Bodkin		\boxtimes
	Jamil Abdullah		
	Donald Dibuono		
Transmission Capital Program	Glenn Herman	\boxtimes	
Budget & Investment	Peter Neidhardt	\boxtimes	
Outage 9 One Planning	Oswaldo Ortega		
Outage & Ops Planning	David Cloutier		
Standards	Jen Hebsch		

Public Service Co of New Hampshire Project Approval Information

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Fund Project Number A14N21

Project Title BERLIN EASTSIDE 34.5KV LINE BREAKER

Operating Unit

Initiated By PWRPLANT

Initiated Date 01/01/2001 00:00:00

Description BERLIN EASTSIDE 34.5KV LINE BREAKER ADDITION of Work

Location DIST SUBS - NEW HAMPSHIRE

Project Schedule	/ Expenditure	es	Est Start Date :	1/1/2014	Est Complete Date:	5/31/2018		
2014 \$73,681.04					2018 \$0.00	Future Years \$0.00	Total \$1,308,101	
Cost Breakdown	Capital \$1,181,993	Expense \$0	Removal \$122.655	Retirements	Credits \$0	\$1,304,647,47		

Reason For Work

Background Information

Approvals

Level	Approver	Approval Limit	Date Approved
Project Manager	Menard, Erica	\$0	03/15/2016
Plant Accounting	Roncaioli_TERMINATED, Michele	\$0	03/15/2016
Manager - PSNH Dist	Brown, Thelma	\$100,000	03/15/2016
Director - PSNH Dist	Eilenberger, James	\$250,000	03/15/2016
Sr. VP/President - Ops	Clarke, Peter	\$5,000,000	03/21/2016

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Accounting Policy Statement No. 2 Operations Project Authorization

Project Authorization Form

General Information

Date Prepared: 03/07/2016	Project Title: Berlin Breaker Addition
Company: Eversource - NH	Project ID Number: A14N21
Organization: NH Operations - Substation	Class(es) of Plant: Distribution
Engineering	
Project Initiator: Sam Bosse	Project Category: Basic Business
Project Owner/Manager: Hut Snow	Project Type: Specific
Project Sponsor: Jim Eilenberger	Project Purpose: Part of regulatory tracked program? No
Estimated in service date: 12/31/2016	Capital Investment Part of Original Operating Plan? Yes
If Transmission Project: No	Supplement to Existing Authorization? Yes
	O&M Expenses Part of the Original Operating Plan? No

If Chief Executive Officer or subsidiary board approval is required, document the review by Enterprise Risk Management (ERM) and Financial Planning and Analysis (FP&A)	
ERM:	
FP&A:	

Executive Summary

Berlin S/S (115/34.5 kV) has three independent issues that have been combined into one project to gain efficiencies. The three items are:

- Add a 34.5 kV line breaker- Both the 3525 and 3521 lines are fed from a single breaker (7,601 total customers) so the addition of a line breaker will allow each circuit to have their own breaker improving reliability.
- 2) Add a grounding bank to Berlin S/S- Berlin S/S gets its ground source from transformer TB 83 and secondly from an old grounding bank that is part of the obsolete feed to Brookfield Hydro. Pending completion of a new feed to Brookfield Hydro (being installed by the customer) the 62 year old gassing transformer and grounding bank currently feeding Brookfield will be removed requiring a new grounding bank to be installed and
- 3) The completion of the upgrade to the nearby Community Street 4 kV substation eliminated the need for the 55 year old 4 kV substation at Berlin so the transformer and switchgear will be removed as part of this project.

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Accounting Policy Statement No. 2 Operations Project Authorization

Project Costs Summary

(\$000)	Prior Authorized*	Prior Spend*	2016	2017	Totals	Supplemental Authorization*
Capital Additions - Direct	\$ 461	\$ 50	\$ 920	\$	\$ 970	
Customer Contribution				\$	\$	
Removals net of Salvage		\$ 1	\$ 100	\$	\$ 101	
Total - Direct Spending	\$ 461	\$ 51	\$ 1,020	\$	\$ 1,071	\$ 610
Capital Additions - Indirect	\$ 183	\$ 27	\$ 195	\$	\$ 222	
Subtotal Request	\$ 644	\$ 78	\$ 1,215	\$	\$ 1,293	
AFUDC		\$2	\$13	\$	\$ 15	
Total Request	\$ 644	\$ 80	\$ 1,228	\$	\$ 1,308	

^{*} to be completed if supplemental authorization is required

Summary Project Description

The project includes adding a 34.5kV line breaker, adding a grounding bank and removing obsolete equipment at Berlin (Eastside) substation.

- 1) Add a new breaker which will feed the 3525X line. This will improve the area reliability by feeding the 3525X line on its own breaker instead of having both the 3525X Line (3,233 customers) and 3521X line (4,368 customers) fed from a single breaker;
- 2) The 34.5-22kV 62 year old transformer TB254 and the 1948 vintage OCB will not be required to feed Gorham Paper & Tissue load when their new 115-22kV substation is completed in early 2016. Prior to de-energizing and removing TB254 a new ground bank is required as it is the backup ground source for the substation when the main transformer TB 83 is taken out of service or trips out. (NOTE: The second 115-34.5kV transformer (TB115) feeding Berlin S/S is connected wye-delta therefore it does not provide a ground source). Without a ground source the voltage would fluctuate outside NHPUC limits at 34.5kV for all customers fed only from TB115 so installation of a ground bank on 34.5kV Bus 1 is included in this project and
- 3) Remove the 55 year old 34.5-4kV transformer (TR158) and corresponding 59 year old switchgear which was de-energized when Community Street S/S was rebuilt and energized to feed the 4kV Berlin load.

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Accounting Policy Statement No. 2 Operations Project Authorization

Project Authorization

Approver	Approver Name	Approver Signature	Date
Project Initiator	Sam Bosse		
Project Manager	Hutton Snow		
Plant Accounting	Michelle Roncaioli		
Manager Substation	Thelma Brown		
Director	James Eilenberger		
Senior Vice President	Peter Clarke		

Overall Justification

To provide a separate breaker for the 3525X line and 3521 line which combined serve 7,601 customers. This project provides for a second ground source for the substation (necessary when the old TB 254 is removed) and removes obsolete and out of service equipment.

Project Scope

- -Remove 34.5-22kV transformer and OCB.
- -Install a 34.5kV breaker for the 3525X line
- -Install ground bank on the 34.5kV bus one (1).
- -Remove 34.5- 4kV transformer and 4kV switchgear.

Project Objectives

Separate the 3525X and 3521X lines to be fed by two breakers. Currently there are 3,233 customers on circuit 3525X and 4,368 customers on 3521X.

Remove obsolete equipment while completing the breaker installation in Berlin East Side SS. Over the past year it has been determined that doing all removals in conjunction with the new installation is more efficient than designing multiple projects and mobilizing multiple times.

Business Process and / or Technical Improvements:

- -Reliability
- -Removal of obsolete equipment

Assumptions

Contractor will mobilize once for all portions of the construction.

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Docket No. DE 19-057 Data Request STAFF 12-045 Dated 9/20/2019 Attachment STAFF 12-045 AD

Accounting Policy Statement No. 2 Operations Project Authorization

Alternatives Considered

- Some de-energized equipment can remain on-site which may save some removal costs.
 However, the transformer TB254 and associated equipment needs to be removed in
 order to utilize the bay position to feed the new 3525X breaker. Savings for this
 alternative would be minimal.
- 2) Do not separate the 3525X circuit from the 3521X line breaker but remove obsolete equipment. This would leave 7601 customers on a single breaker and not provide a looped system between two breakers.
- 3) Replace the wye-delta 115-34.kV transformer TB115 instead of installing a ground bank. This would be an additional \$2M to provide a new transformer. Additionally, the wye ground at the 115kV side of TB115 is still preferred to act as a ground source for the 115kV system in this area.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Engineering	8/1/16
In Service	12/30/16

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Accounting Policy Statement No. 2 Operations Project Authorization

Financial Evaluation

Direct Capital Costs (\$000)	2014	2015	2016	Total
Straight Time Labor	\$ 14	\$ 1	\$ 20	\$ 35
Overtime Labor	\$			\$
Outside Services	\$ 3	\$	\$ 750	\$ 753
Materials	\$ 32	\$	\$ 130	\$ 162
Other, including contingency amounts (describe)	\$ 1	\$	\$ 120	\$ 121
Total	\$ 50	\$ 1	\$ 1,020	\$ 1,071
Indicat Carital Casta (\$000)	0044	0045	0046	Total
Indirect Capital Costs (\$000)	2014	2015	2016	Total
Benefits / Loaders	\$ 23	\$ 3	\$ 195	\$ 222
Capitalized interest or AFUDC, if any	\$ 1	\$ 1	\$ 13	\$ 15
Total	\$ 24	\$ 5	\$ 208	\$ 237
Total Capital Costs	\$ 74	\$ 6	\$ 1,228	\$ 1,308
Total O&M Costs				
Total Project Costs (\$000)	\$ 74	\$ 6	\$ 1,228	\$ 1,308

Regulatory Approvals

Permitting may be required by the City of Berlin.

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Risks and Risk Mitigation Plans

None identified.

Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 10/28/2019 Date of Response: 11/18/2019

Request No. TS 2-059 Page 1 of 2

Request from: New Hampshire Public Utilities Commission Staff

Witness: Erica L. Menard, Joseph A. Purington, Lee G. Lajoie

Request:

Re: Berlin Eastside 34.5kV Line Breaker,#A14N21, 12-045AD. Please provide the following information for this project:

- a. Re: Executive Summary and related table at pages 2-3: Please explain why so many of the direct and indirect costs for this project were omitted or not considered in the original estimate. Were the design/scoping engineers interviewed by Management to determine the root cause for these omissions? If not, why not? If yes, what were the results of those discussions?
- b. Please provide an itemized break-out of overheads, AFUDC, and other costs leading up to the variance?
- c. Did Eversource engineers conduct a site visit and site assessment during the initial scoping and designing of the project? If not, why not?
- d. At any time did Project Managers work with project cost analysts to control cost escalation for this project? If not, why not? If yes, what were the results? Given the monthly reports received by Management, was Management actively involved in controlling the cost escalation of this project? If not why not? If yes, were cost controls put into place?

Response:

a) Refer to Attachment TS 2-059 for a general summary of the project life cycle and Eversource project funding and authorization process at the time of the project. This document includes reference to a recent transition to a staged sanctioning process where full project funding authorization is not granted until sufficient engineering and procurement information is available to develop a full project estimate of sufficient accuracy to minimize the need for incremental authorizations during construction.

This project was initiated in 2014 as a single breaker addition to support installation of a new substation at Community Street. In 2016, the project was changed to incorporate scopes from other independent project needs. A new aggregate estimate was prepared and authorized at that time. This estimate was completed prior to completion of preliminary engineering, which was necessary to finalize detailed scope of the project.

The engineering for this project proved to be much more complex than anticipated, resulting is more engineering cost. The site contained contaminated soils requiring a soils management plan and disposal costs. Unanticipated scope included significant 34.5kV Line work. Electrical testing was included in the original estimate, however, due to policy changes to minimize human performance errors, which require full time commissioning engineer presence on site during projects of this nature, the testing cost increased.

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These are not considered omissions due to the conceptual nature of the scope known at the time of the original estimate.

b) The indirect cost variance is as follows:

	Original PAF, \$k	Supplement, \$k
Direct Cost	\$1,070	\$2,838
Indirect Cost	\$222	\$797
Aggregate Indirect Rate	21%	28%
AFUDC	\$15	\$11

The variance in indirect cost is driven primarily by an increase in direct cost of the project and to a lesser degree, increase in overhead rates.

- c) A site visit was conducted prior to the preparation of the initial scope and estimate. Several site visits also took place later in the design process and assisted with refinement of the scope of work, particularly with respect to incorporating the scope of work of the other independent project needs.
- d) At the time this project was in execution, it was Eversource's practice to assign dedicated cost analysts to support project managers with cost control, analysis and forecasting for major transmission projects. At the time of this project, cost analyst support for distribution-only projects did not perform all of these functions and was transitioning this practice to fully support major distribution-only projects.

This project was reviewed monthly at the Distribution Capital Project Review meeting. Cost control measures included budget forecasting, weekly and monthly reviews of the project cost, change order review and negotiations with contractors as well as attending the monthly Distribution Capital Review and Major Project Group meetings. Project forecast changes were presented and justified to management at these meetings. Impacts to the annual distribution budgets were discussed with respect to cash flow adjustments from year to year. Required cost controls included a requirement to request and secure supplemental funding to complete the project.

1 2 3 4 5

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE CAPITAL ADDITIONS PLACED IN SERVICE FOR 2019-2022 LISTING OF ESTIMATED PLANT IN SERVICE BY PROJECT

6 7	Item No	Location	Project Title	In Service Date	2019	2020	2021	2022
8	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
9		Various	PURCHASE TRANSFORMERS AND REGULATOR ANNUAL PROJECT	12/31/20xx	\$14,000,000	\$10,443,000	\$10,455,000	\$10,724,000
10		Various	SYSTEM REPAIRS/OBSOLETE ANNUAL PROJECT	12/31/20xx	\$10,000,000	\$9,500,000	\$9,836,300	\$10,033,900
11	1003	Various	CIRCUIT TIES FORECAST PROJECT	12/31/xx	\$9,500,000	\$9,500,000	\$9,500,000	\$9,500,000
12	1004	Various	OPERATIONS SERVICES (VEHICLES, TRAINING, METERS, ETC.)	12/31/xx	\$5,825,179	\$9,309,000	\$9,101,200	\$9,294,300
13	1005	Various	NEW/EXISTING CUSTOMERS ANNUAL PROJECT	12/31/20xx	\$7,996,717	\$7,752,000	\$7,907,040	\$8,065,181
14	1006	Various	DISTRIBUTION AUTOMATION - POLE TOP	12/31/xx	\$0	\$11,400,000	\$5,700,000	\$5,700,000
15	1007	Various	DISTRIBUTION LINE ROW ANNUAL PROGRAM	12/31/xx	\$4,750,000	\$4,845,000	\$4,941,900	\$5,039,750
16	1008	Various	STREETSIDE RECONSTRUCTION/HARDENING FORECAST PROJECT	12/31/xx	\$0	\$2,945,000	\$3,325,000	\$4,275,000
17		Various	FACILITIES/WAREHOUSING	12/31/xx	\$3,473,000	\$8,446,755	\$4,294,495	\$3,254,500
18		Keene	EMERALD STREET SUBSTATION	06/01/2020	\$9,562,386	\$14,336,133	\$0	\$0
19		Various	ROW HARDENING/RECONDUCTORING	12/31/xx	\$1,900,000	\$1,900,000	\$3,800,000	\$5,054,000
20		Various	UNIT SUBSTATION TRANSFORMER REPLACEMENTS FORECAST PROJECT	12/31/xx	\$0	\$0	\$1,425,000	\$4,750,000
21		Various	DISTRIBUTION AUTOMATION - POLE TOP	12/31/xx	\$20,000,000	\$0	\$0	\$0 \$2.276.480
22		Various	SIMPLE/COMPLEX SERVICES ANNUAL PROJECT	12/31/20xx 12/31/xx	\$3,239,973	\$3,149,250	\$3,212,235	\$3,276,480
23 24	1015 1016	Various Various	LACONIA AREA 12 KV SUBSTATION CHANGES FORECAST PROJECT TELECOM ENGINEERING	12/31/xx 12/31/xx	\$0 \$5,700,000	\$522,500 \$2,172,000	\$1,900,000	\$4,750,000
25	1017	Manchester	EDDY SUBSTATION CONTROL HOUSE	12/01/2020	\$5,904,954	\$9,980,700	\$1,972,000 \$0	\$1,972,000 \$0
26		Various	REJECT POLE REPLACEMENT ANNUAL PROGRAM	12/31/xx	\$2,375,000	\$2,375,000	\$2.375.000	\$2,375,000
27		Dover	DOVER SUBSTATION REBUILD	12/31/2021	\$0	\$0	\$13,078,650	\$0
28			PORTSMOUTH SUBSTATION - ADD TRANSFORMER	06/01/2020	\$3,770,550	\$9,264,400	\$13,076,030	\$0
29	1021	Various	ELECTROMECHANICAL RELAY REPLACEMENTS FORECAST PROJECT	12/31/xx	\$0	\$3,135,000	\$6,175,000	\$3,135,000
30			PEMIGEWASSETT SUBSTATION REPLACEMENT	12/01/2020	\$4,331,657	\$7,760,550	\$0	\$0
31	1023	Various	NHDOT PROJECT ANNUAL PROGRAM	12/31/20xx	\$2,000,000	\$1,938,000	\$1,976,760	\$2,016,295
32		Various	SUBSTATION PEAK LOAD FORECAST PROJECT	12/31/20xx	\$0	\$0	\$475,000	\$3,800,000
33	1025	Various	RELIABILITY IMPROVEMENTS ANNUAL PROJECT	12/31/xx	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000
34	1026	Various	34.5 KV OCB SUBSTATION BREAKER AND ANCILLARY EQUIPMENT	12/31/xx	\$2,375,000	\$950,000	\$1,425,000	\$1,425,000
35	1027	Tamworth	WHITE LAKE SUBSTATION REBUILD	12/01/2022	\$0	\$0	\$0	\$10,899,350
36	1028	Various	ELECTROMECHANICAL RELAY REPLACEMENT PROGRAM	12/31/xx	\$2,280,000	\$950,000	\$1,092,500	\$1,092,500
37	1029	Troy	MONADNOCK SUBSTATION REPLACE TRANSFRMR TB40	12/31/2021	\$0	\$0	\$9,728,000	\$0
38	1030	Milford	SOUTH MILFORD TRANSFORMER ADDITION FORECAST PROJECT	12/01/2022	\$0	\$0	\$0	\$9,500,000
39	1031	Manchester	HUSE RD TRANSFORMER REPLACEMENT FORECAST PROJECT	12/01/2022	\$0	\$0	\$0	\$9,500,000
40	1032	Madbury	MADBURY SUBSTATION FORECAST PROJECT	12/01/2023	\$0	\$0	\$0	\$0
41		Milford	SECOND ASHLAND TRANSFORMER FORECAST PROJECT	12/01/2023	\$0	\$0	\$0	\$0
42			LARGER TRANSFORMERS PINE HILL FORECAST PROJECT	12/01/2024	\$0	\$0	\$0	\$0
43		Various	CAIDI IMPROVEMENT	12/31/xx	\$475,000	\$950,000	\$1,900,000	\$1,900,000
44	1036	Various	NH DMS FORECAST PROJECT	12/01/2022	\$0	\$0	\$0	\$8,550,000
45	1037	Various	VARIOUS 4 KV CONVERSION FORECAST PROJECT	12/31/xx	\$0	\$475,000	\$1,900,000	\$1,900,000
46	1038	Various	ROW REPLACE FIELD EQUIPMENT - ANNUAL PROJECT	12/31/20xx	\$1,200,000	\$1,162,800	\$1,186,056	\$1,209,777
47	1039	Various	TOOLS AND EQUIPMENT- FIELD OPERATIONS ANNUAL PROGRAM	12/31/20xx	\$1,100,000	\$1,122,000	\$1,144,440	\$1,167,329
48		Claremont	RIVER ROAD SUBSTATION	12/01/2020	\$2,058,328	\$4,674,950	\$0	\$0
49	1041	Nashua	MILLYARD SUBSTATION REPLACEMENT	12/31/2020	\$0	\$6,689,900	\$0	\$0 \$027.000
50 51	1042 1043	Various Various	INFORMATION TECHNOLOGY LINE RELOCATIONS ANNUAL PROGRAM	12/31/xx 12/31/20xx	\$440,000 \$1,000,000	\$440,131 \$969,000	\$4,350,000 \$988,380	\$827,600 \$1,008,148
52	1043	Various	SUBSTATION OPERATIONS ANNUAL PROGRAM	12/31/20XX 12/31/xx	\$950,000	\$950,000	\$950,000	\$950,000
53	1044	Various	POWER TRANSFORMER FAILURE FORECAST PROJECT	12/31/20xx	\$1,000,000	\$950,000	\$1,000,000	\$1,000,000
54	1045	Various	DIRECT BURIED CABLE REPLACEMENT	12/31/20XX	\$1,000,000	\$950,000	\$950,000	\$950,000
55	1047	Laconia	WEIRS SUBSTATION REBUILD	10/01/2022	\$0	\$0	\$0	\$4.750.000
56		Various	DA BACKHAUL ENHANCEMENT FORECAST PROJECT	2023 and 2024	\$0	\$0	\$0	\$0
57		Various	CAPACITOR SWITCH REPLACEMENTS ANNUAL PROGRAM	12/31/xx	\$760,000	\$760,000	\$760,000	\$760,000
58		Various	DISTRIBUTION SUBSTATION ENGINEERING ANNUAL PROGRAM	12/31/xx	\$712,500	\$726,750	\$741,285	\$760,000
59		Various	PLC AUTOMATION SCHEME REPLACEMENT	12/31/xx	\$190,000	\$475,000	\$950,000	\$950,000
60		Rochester	TWOMBLEY SUBSTATION REBUILD	12/01/2020	\$237,500	\$3,847,500	\$0	\$0
61	1053	Various	MAINTAIN VOLTAGE ANNUAL PROJECT	12/31/20xx	\$665,000	\$665,000	\$665,000	\$665,000
62	1054	Various	STORM CAPITALIZATION ANNUAL PROGRAM	12/31/20xx	\$600,000	\$581,400	\$593,028	\$604,889
63	1055	Various	OH INSURANCE CLAIM ANNUAL PROJECT	12/31/20xx	\$600,000	\$581,400	\$593,028	\$604,889
64	1056	Various	PEAK LOAD DISTRIBUTION LINE FORECAST PROJECT	12/31/20xx	\$950,000	\$475,000	\$475,000	\$475,000
65	1057	Various	OTHER	12/31/20xx	\$235,303	\$540,383	\$581,047	\$587,615
66	1058	Various	CABLE TV PROJECTS ANNUAL PROGRAM	12/31/20xx	\$500,000	\$484,500	\$494,190	\$504,074
67	1059	Various	MISCELLANEOUS OTHER FORECAST PROJECT	12/31/20xx	\$2,600,000	\$0	\$0	\$0
68	1060	Manchester	BROOK ST SUBSTATION - 13TR1 REPLACEMENT	12/31/2020	\$0	\$2,499,450	\$0	\$0
69	1061	Various	NON-ROADWAY LIGHTING ANNUAL PROJECT	12/31/20xx	\$400,000	\$387,600	\$395,352	\$403,259
70	1062	Various	INSTALL ANIMAL PROTECTION	12/31/xx	\$0	\$475,000	\$475,000	\$475,000
71	1063	Various	PORCELAIN CHANGE-OUT ANNUAL PROGRAM	12/31/xx	\$950,000	\$0	\$0 ©0	\$0 ©0
72	1064	Claremont	CLAREMONT AREA SUBSTATION UPGRADES	12/31/2020	\$518,115	\$1,851,550 \$1,544,700	\$0 \$633.300	\$0 \$0
73 74	1065	Rochester	ROCHESTER 4KV CONVERSION HEATHER-LITE REPLACEMENT FORECAST PROJECT	12/31/xx	\$0 \$237,500	\$1,544,700 \$0	\$623,200 \$475,000	\$0 \$475,000
74 75	1066 1067	Various Keene	REPLACE 2 SF6 SWITCHS WITH TRAYER KEENE	12/31/xx 12/31/2019	\$237,500 \$1.836.295	\$0 \$0	\$475,000 \$0	\$475,000 \$0
75 76		Various	NH LINE CONTRACTORS ANNUAL PROGRAM	12/31/2019 12/31/20xx	\$300,000	\$290,700	\$296,514	\$302,444
, 0	1000	· arrous	L. L. CONTINUO TONO MANDAL I NOGRAM	12/01/2000	ψοσο,σσο	Ψ230,100	Ψ230,314	ψυυ2,444

7	Item No Loc	cation	Project Title	In Service Date	2019	2020	2021	2022
8	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
77	1069 Variou	us	REPLACE LATTICE STEEL TOWERS	12/31/xx	\$285,000	\$285,000	\$285,000	\$285,000
78	1070 Variou	us	REPLACE DEGRADED MANHOLES	12/31/xx	\$190,000	\$285,000	\$285,000	\$285,000
79	1071 Rye		RYE AREA 4KV STUDY	12/31/2019	\$1,567,264	\$0	\$0	\$0
80	1072 Variou	us	JOINT POLES PURCHASE & SALE ANNUAL PROGRAM	12/31/20xx	\$200,000	\$193,800	\$197,676	\$201,630
81	1073 Variou	us	TELEPHONE PROJECTS ANNUAL PROGRAM	12/31/20xx	\$200,000	\$193,800	\$197,676	\$201,630
82	1074 Variou	us	TOOLS AND EQUIPMENT - SUBSTATION OPERATIONS ANNUAL PROGRAM	12/31/20xx	\$160,000	\$163,200	\$166,464	\$169,793
83	1075 Variou	us	DISTRIBUTION AUTOMATION - SUBSTATION	12/31/xx	\$1,000,000	\$0	\$0	\$0
84	1076 Bedfo	ord	BEDFORD SUBSTATION PLC AUTOMATION SCHEME	12/31/2019	\$984,655	\$0	\$0	\$0
85	1077 Variou	us	ROW PEAK LOAD FORECAST PROJECT	12/31/20xx	\$967,090	\$0	\$0	\$0
86	1078 Lacon		LACONIA SUBSTATION EQUIPMENT REPLACEMENT	12/31/2019	\$950,000	\$0	\$0	\$0
87	1079 Variou	us	DISTRIBUTION AUTOMATION - SUBSTATION	12/31/xx	\$0	\$950,000	\$0	\$0
88	1080 Variou	us	DISTRIBUTION AUTOMATION - LINE SENSORS	12/31/xx	\$0	\$171,000	\$171,000	\$171,000
89	1081 Variou	us	MINOR STORMS CAPITAL - PSNH ANNUAL PROGRAM	12/31/20xx	\$130,000	\$125,970	\$128,489	\$131,059
90	1082 Variou	us	HPS ADDS/CHANGES ANNUAL PROJECT	12/31/20xx	\$120,000	\$116,280	\$118,606	\$120,978
91	1083 Amhe	erst	AMHERST SUBSTATION - PLC AUTOMATION REPLACEMENT	12/31/2020	\$0	\$665,000	\$0	\$0
92	1084 Variou	us	MISC OFFICE EQUIPMENT ANNUAL PROGRAM	12/31/20xx	\$100,000	\$102,000	\$104,040	\$106,121
93	1085 Variou	us	NESC CAPITAL REPAIRS	12/31/20xx	\$100,000	\$95,000	\$95,000	\$95,000
94	1086 Variou	us	DOWNTOWN PORTSMOUTH UG SYSTEM IMPROVEMENT	12/31/xx	\$95,000	\$95,000	\$95,000	\$95,000
95	1087 Variou	us	DISTRIBUTION AUTOMATION - TELECOM	12/31/xx	\$0	\$95,000	\$95,000	\$95,000
96	1088 Variou	us	INSTALL ANIMAL PROTECTION FORECAST PROJECT	12/31/2019	\$475,000	\$0	\$0	\$0
97	1089 Variou	us	PCB TRANSFORMER CHANGEOUT ANNUAL PROGRAM	12/31/20xx	\$75,000	\$72,675	\$74,129	\$75,611
98	1090 Variou	us	TOOLS AND EQUIPMENT - ENGINEERING ANNUAL PROGRAM	12/31/20xx	\$75,000	\$75,000	\$75,000	\$75,000
99	1091 Variou	us	TOOLS AND EQUIPMENT- TROUBLESHOOTER ANNUAL PROGRAM	12/31/20xx	\$0	\$60,000	\$60,000	\$60,000
100	1092 Rye		RETIRE FOYES CORNER SUBSTATION 4KV	07/01/2020	\$0	\$190,000	\$0	\$0
101	1093 Variou	us	RELIABILITY DISTRIBUTION AUTOMATIONN FORECAST PROJECT	12/31/xx	\$180,000	\$0	\$0	\$0
102	1094 Variou	us	DISTRIBUTION AUTOMATION - TELECOM	12/31/xx	\$100,000	\$0	\$0	\$0
103	1095 Roche	ester	RETIRE FOYES CORNER SUBSTATION 4KV FORECAST PROJECT	12/31/2019	\$95,000	\$0	\$0	\$0
104					\$149,448,967	\$172,977,727	\$140,230,679	\$165,280,099

Public Service of New Hampshire d/b/a Eversource Energy Docket No. DE 19-057

Date Request Received: 10/11/2019 Date of Response: 10/24/2019

Request No. OCA 8-003 Page 1 of 1

Request from: Office of Consumer Advocate

Witness: Troy Dixon, Douglas P. Horton

Request:

Capital Projects. Refer to Attachment EHC/TMD-3 (perm), Page 2 of 8. Provide a listing of the projects included in each of the respective years 2019-2022, by item number similar to the listings provided in response to OCA 1-009. If the Company cannot provide the information in that format, explain why not and provide listings by year in the most detailed format available by project.

Response:

The Company's capital planning process begins with a high-level, long-range (5 year) capital expenditure and capital addition forecast by major category of investment developed in the spring of each year. The 5-year forecast is also referred to as the strategic plan. Toward the end of each year, a detailed one-year capital expenditure plan is developed at the specific project level for the coming year. This one-year capital expenditure plan forms the basis of the Company's capital budget for the upcoming year. This capital budget includes capital additions and cost of removal.

The step adjustments proposed in this case are based on the high-level, long-range capital additions forecast, which is produced by category of investment and is not developed to encompass a specific project level because this level of detail comes later in the process and is designed to pertain specifically to an upcoming investment year. Therefore, a detailed plan by project is not available for the step adjustments. However, a detailed plan for capital expenditures at the project level is available for calendar year 2019 and is included in the Company's annual construction budget filing (provided in SFR-001756 and Attachment OCA 1-009 F). As described in the response to Staff 13-009, the amounts referenced in the 2019-2022 step increases in this rate case are estimated amounts based on forecasted levels of plant additions. The actual step increases will be based on actual plant additions within the step adjustment year. In addition, the detailed capital plan for calendar year 2020 will become available later this year.

Attachment OCA 8-003 provides a list of estimated additions by year from the Company's strategic plan at the most detailed level available in a format similar to the Form E-22 annual construction budget.