# THE STATE OF NEW HAMPSHIRE BEFORE THE SITE EVALUATION COMMITTEE DOCKET NO. 2015-04

## SUPPLEMENTAL PRE-FILED DIRECT TESTIMONY OF SARAH D. ALLEN, ANN E. PEMBROKE, AND KURT NELSON

APPLICATION OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
FOR A CERTIFICATE OF SITE AND FACILITY FOR CONSTRUCTION OF A NEW 115 kV TRANSMISSION LINE

THE SEACOAST RELIABILITY PROJECT

July 27, 2018

| 1  |   | Qualifications and Purpose of Testimony                                      |  |
|----|---|--|--|
| 2  | Q.  | Please state your names and business addresses.                              |  |
| 3  | A.  | My name is Sarah D. Allen. My business address is 25 Nashua Rd,              |  |
| 4  | Bedford, NH   | I 03110.   |  |
| 5  | My n  | ame is Ann E. Pembroke. My business address is 25 Nashua Rd., Bedford        |  |
| 6  | NH 03110.   |  |  |
| 7  | My n  | ame is Kurt Nelson. My business address is 13 Legends Drive, Hooksett,       |  |
| 8  | NH 03106.   |  |  |
| 9  | Q.  | Who is your current employer and what position do you hold?                  |  |
| 10 | A.  | Ms. Allen is employed by Normandeau Associates Inc. as a Senior              |  |
| 11 | Principal We  | etland Scientist in the Wetland/Terrestrial Group. Ms. Allen is Normandeau's |  |
| 12 | Project Man   | ager for the Seacoast Reliability Project ("SRP" or the "Project").          |  |
| 13 | Ms. l   | Pembroke is also currently employed by Normandeau Associates and is a        |  |
| 14 | Vice Preside  | nt and Technical Director of the Marine Group.                               |  |
| 15 | Mr. 1   | Nelson is a Senior Land Use Licensing & Permitting Specialist at Eversource  |  |
| 16 | Energy.   |  |  |
| 17 | Q.  | Please describe your background, experience and qualifications.              |  |
| 18 | A.  | Our background and qualifications were included in our individual direct     |  |
| 19 | pre-filed test  | imony filed with the NH SEC Application dated April 12, 2016, and July 1,    |  |
| 20 | 2018, and ha  | ive not changed since then.  |  |
| 21 | Q.  | What is the purpose of this joint supplemental testimony?                    |  |
| 22 | A.  | The purpose of our testimony is to provide additional information to the     |  |
| 23 | SEC regardi   | ng potential effects to air and water quality and to the natural environment |  |
| 24 | from the con  | struction and operation of the Project as originally filed with the SEC on   |  |
| 25 | April 12, 20  | 16. In addition, we have reviewed NHDES's Final Decision that                |  |
| 26 | recommends  | approval, with conditions, of the Project's wetlands permit, shoreland       |  |
| 27 | permit, and alternation of terrain permits, and the 401 water quality certification. We |  |  |
| 28 | also are submitting Revised Environmental Maps, dated July 25, 2018.                    |  |  |
| 29 | Ms. I   | Pembroke continues to offer the opinion that the construction and operation  |  |
| 30 | of the Projec   | t will not have a significant adverse effect on the resources of Little Bay  |  |

A.

Yes, we do.

| 1  | Q.                | Does the supplemental Project material provided to the SEC in this           |
|----|-------------------|--|
| 2  | proceeding        | change anything in your previously filed testimonies dated April 12,         |
| 3  | <b>2016</b> and M | arch 29, 2017?   |
| 4  | <b>A.</b>         | Yes. As described further below, the design modification submitted on        |
| 5  | September 1       | 9, 2017 resulted in changes in wetland impacts, and thus the in-lieu fee     |
| 6  | wetland miti      | gation estimates have been updated based on new impact numbers. My           |
| 7  | testimony al      | so includes supplemental information on revised salt marsh restoration plan, |
| 8  | revised cons      | truction best management practices, a northern long-eared bat acoustic study |
| 9  | and informat      | tion regarding a bald eagle nest on an abutting property. The supplemental   |
| 10 | information       | is described in more detail below.   |
| 11 | Q.                | Aside from the changes you noted above, does the supplemental                |
| 12 | information       | provided to the SEC since the filing of the Application alter your           |
| 13 | opinions an       | d conclusions?   |
| 14 | <b>A.</b>         | No, they do not.   |
| 15 |                   | Sarah Allen  |
| 16 | Q.                | Please describe any changes to natural resource impacts as a result of       |
| 17 | changes to t      | he Project design.   |
| 18 | <b>A.</b>         | Several changes to wetlands resulted from the Project design changes.        |
| 19 | Overall, peri     | manent wetland impacts increased by 3,331 square feet from the original      |
| 20 | design, and t     | emporary impacts decreased by 284 square feet. The net increase in           |
| 21 | permanent in      | mpacts was primarily a result of the potential need for additional concrete  |
| 22 | mattresses in     | the nearshore areas of Little Bay. A decrease of 14 square feet of           |
| 23 | permanent in      | mpacts resulted from shifts in several structure locations as the Project    |
| 24 | responded to      | municipal and resident requests.   |
| 25 | Three             | e locations accounted for most of the areas of change in temporary impacts.  |
| 26 | In the Flynn      | Pit, temporary impacts declined by 2,087 square feet after the Town          |
| 27 | executed an       | option agreement for a new right-of-way to allow the Project to go           |
| 28 | underground       | around a small pond and the associated wetland. At the location of the       |
| 29 | newly propo       | sed underground segment across the Newington Center Historic District and    |
| 30 | Hannah Lan        | e residential neighborhood, temporary impacts increased by 18,013 square     |

- 1 feet because of burial of the cable and associated work roads across seven wetlands in the
- 2 corridor. In the intertidal zones of Little Bay, a proposed increase in concrete mattresses
- resulted in 3,219 square feet of temporary impacts being converted to permanent 3
- impacts. Most other changes resulted in a decline in temporary impacts as engineering 4
- and construction requirements were modified in response to design changes. 5

Cable burial across the Frink Farm also resulted in an additional 84 square feet of temporary impact to a small perennial stream resulting from a stream diversion needed to install the underground duct bank.

All of these changes were submitted to the SEC and NHDES and were considered as part of NHDES's permitting review and are accounted for in the NHDES Final Decision issued on February 28, 2018.

#### Please describe the effects of the current design on the proposed in-Q. lieu fee for the SRP.

The updated values for the Project's proposed Aquatic Resource A. Mitigation compensation reflect design changes that have occurred since the original filing, as well as changes in equalized values for the Towns (Revised Little Bay Impact Assessment Report, supplement submitted September 19, 2017). Permanent wetland impacts for overhead structures generally declined across the project. For the submarine cable installation, a near-shore survey further defined the areas where concrete mattresses are likely to be needed, therefore permanent impacts increased in intertidal and subtidal areas in Durham and Newington.<sup>2</sup> All combined, the revised cost estimate for in-lieu fee mitigation increased by \$39,863.14, as shown by municipality in the following table:

| Municipality | Original<br>Compensatory<br>Mitigation Cost | Amended<br>Compensatory<br>Mitigation Cost | Difference<br>between Original<br>and Amended |
|--------------|---|--|---|
| Madbury      | \$6,488.92                                  | \$6,501.15                                 | \$12.23                                       |
| Durham       | \$213 547 82                                | \$213 763 28                               | \$215.46                                      |

<sup>&</sup>lt;sup>1</sup> The extent of concrete mattresses was conservatively estimated based on the Project's understanding of the nearshore area. If adequate burial depth can be achieved closer to shore, the amount of concrete mattresses will be reduced, thereby reducing the area of permanent impact. See Revised Little Bay Impact Assessment Report, Supplement dated September 19, 2017. <sup>2</sup> See supra note 1.

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| Total      | \$309,971.11 | \$349,834.26 | \$39,863.14 |
|------------|--------------|--------------|-------------|
| Portsmouth | \$8,187.14   | \$8,579.60   | \$392.46    |
| Newington  | \$81,747.24  | \$120,990.23 | \$39,242.99 |

# Q. Please describe any supplemental natural resource information that has been gathered since the original filing.

- A. As part of its ongoing review of natural resources in the vicinity of the Project, additional studies since the Application was filed in March 2016 have been undertaken. The additional work includes:
  - Salt Marsh Protection and Restoration Plan (Document 5 in the Supplement submitted June 30, 2017): Eversource has designed the SRP to avoid environmental impacts where possible. Temporary impacts to fringing salt marsh are unavoidable on both shores of Little Bay. Temporary impacts will result from timber mat placement to allow construction equipment to cross the marsh to reach the work areas, and from burial of the cables underneath the marsh. The burial effort will require salvage of the existing peat where feasible, and replacement of the peat and salt marsh restoration after the cable burial is completed. The restoration plans describe the existing conditions, construction activities, salt marsh protection and restoration methods, and long-term monitoring to document recovery.
    - Best Management Practices and Construction Plan for Protected Wildlife and Plants (Document 4 in the Supplement submitted September 19, 2017): This document summarizes best management practices (BMP) and time-of-year (TOY) considerations for construction of the Project. Resources to be considered include the wildlife, fish, and plant resources that must be considered to meet permitting requirements. Because the permit application review process is ongoing and authorizations for construction have not been issued yet, the measures described herein may be subject to modification. Additional input from the agencies will be incorporated if presented, and further adjustments may also be required as part of the final permit conditions. As set forth in the SEC Application and other permit applications, the Project has been designed to avoid and minimize impacts to

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protected plant and wildlife species to the extent practicable. This document describes the TOY and BMP that apply to each species of concern. Once approved, the locations where the TOY restrictions and BMPs apply will be depicted on the construction plan set. Due to the complexity of the construction sequence of work, the focus of this construction BMP/TOY plan will be to avoid and mitigate impacts.

### Northern Long-eared Bat Acoustic Survey (provided in current Supplement). Ultrasonic acoustic surveys were conducted to inventory the federally threatened and state endangered northern long-eared bat (NLEB; Myotis septentrionalis) within the proposed limits of work for the SRP. The Northern Long-eared Bat Acoustic Survey report is provided in Attachment A. The survey was conducted from July 17 through July 22, 2017 adhering to US Fish and Wildlife Service (USFW) 2017 Guidelines. Bat calls were recorded at all detector locations, and a combination of automated analysis and manual review of the calls indicated that NLEB were likely present at Segments 14, 16, 18 and 19. Multiple bat species are typically found during acoustic surveys; on the SRP, other species included big brown bat (Eptesicus fuscus), eastern red bat (Lasiurus borealis), hoary bat (Lasiurus cinereus), silver-haired bat (Lasionycteris noctivagans), little brown bat (Myotis lucificugus), and eastern small-footed bat (Myotis leibii). Note that the little brown bat, eastern small-footed bat, and tri-colored bat are listed as endangered by the State of New Hampshire due to recent population declines caused by White-nose Syndrome, although the latter two species have always been less common. USFWS' TOY tree cutting restrictions for NLEB do not apply to the Project because there are no known maternity roosts or hibernacula within 0.25 miles of the SRP right-of-way. Within the segments where NLEB calls were identified, the proposed clearing width ranges from 0 (Segment 14) to 40 feet (Segment 19). Because the tree clearing is minimal, the effects of the clearing on NLEB is expected to be minimal as well. Where possible, Eversource will

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<sup>&</sup>lt;sup>3</sup> The Applicant continues to consult with the permitting agencies regarding the identification and location of any potential protected species. If necessary, the Applicant will update the SEC with any additional TOY restrictions or BMPs that are required to avoid impacts to those protected species.

perform the tree clearing outside of the maternity season (June-July) to minimize risks to non-flying pups.

approximately 650-700 feet from the edge of the ROW. The presence of young was confirmed on July 12, 2018. Bald eagles are listed as a species of Special Concern by the State and are federally protected under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. Currently, the nest has been documented by NHFGD, however, is not yet included in the NHNHB database. Eversource is currently assessing potential construction-related impacts, and does not expect that construction of the Project will disturb the eagles during the February-July nesting season. Most work on the overhead transmission line will be shielded by trees and will be outside the 660-foot buffer recommended by the USFWS 2007 National Bald Eagle Management Guidelines. The jet plow-related work will also be outside the buffer, and is proposed to occur during months the eagles will not be dependent on the nest (September – November). Eversource has begun coordination with the appropriate State and Federal regulatory agencies, and is committed to avoiding adverse effects to the nesting bald eagles.

Ann Pembroke

- Q. Have your reviewed the Revised Sediment Dispersion Modeling report submitted to the SEC on June 30, 2017?
- **A.** Yes, I have. The Revised Sediment Dispersion Modeling was prepared in response to questions from intervenors concerning sensitivity analyses for the input parameters and a design change for the project (reduction in the cable burial depth in the channel.
- Q. Does the Revised Sediment Dispersion Modeling report change anything in your previously filed testimony?
  - **A.** No, it does not.
- Q. Have you reviewed the supplemental sediment characterization report submitted to the SEC on June 30, 2017?

| 1  | <b>A.</b>   | Yes, I have. The revised sediment characterization report provides the       |  |
|----|---|--|--|
| 2  | results of add  | itional sediment sampling and testing that was conducted in May 2017. The    |  |
| 3  | May sampling partitioned the sediment cores into smaller segments to evaluate any           |  |  |
| 4  | vertical differences in distribution of the constituents tested and to test some additional |  |  |
| 5  | potential cont  | caminants.   |  |
| 6  | Q.  | Does the revised sediment characterization report change anything in         |  |
| 7  | your previou  | sly filed testimony?   |  |
| 8  | <b>A.</b>   | No, it does not. Sediment chemistry data collected during both surveys       |  |
| 9  | indicate that o   | contaminant levels are low and of negligible risk for biota.                 |  |
| 10 | Q.  | Have you reviewed the revised environmental monitoring plan                  |  |
| 11 | submitted to  | the SEC on June 30 2017?   |  |
| 12 | <b>A.</b>   | Yes, I have. This plan was superseded by a second revised version            |  |
| 13 | submitted to t  | the SEC on September 19, 2017.   |  |
| 14 | Q.  | Does the revised environmental monitoring plan change anything in            |  |
| 15 | your previou  | sly filed testimony?   |  |
| 16 | <b>A.</b>   | No, it does not.   |  |
| 17 | Q.  | Have you reviewed the response to the NHDES Issues of Concern                |  |
| 18 | submitted to  | the SEC on September 19, 2017?   |  |
| 19 | <b>A.</b>   | Yes, I have. Eversource addressed comments related to water quality          |  |
| 20 | (plume) moni  | toring, benthic infauna monitoring, plume modeling worst case scenario,      |  |
| 21 | desorption of   | contaminants from suspended sediments, effects of release of nitrogen from   |  |
| 22 | disturbed sediments, impacts of removal of existing cables, consideration of operational    |  |  |
| 23 | approaches to   | reducing the sediment plume, and measures to minimize release of             |  |
| 24 | sediments disturbed during hand jetting when silt curtains are removed. With the            |  |  |
| 25 | exception of t  | the removal of silt curtains these issues have been addressed in the revised |  |
| 26 | plume modeling report, sediment characterization report, or monitoring plan submitted to    |  |  |
| 27 | the SEC in either the June 30, 2017 or the September 19, 2017 filing. The removal of silt   |  |  |
| 28 | curtains was discussed in the response to the NHDES issues of concern in the September      |  |  |
| 29 | 19, 2017 filin  | g.   |  |

| 1  | Q.   | Do Eversource's responses to the NHDES Issues of Concern change               |  |
|----|--|---|--|
| 2  | anything in  | your previously filed testimony?  |  |
| 3  | <b>A.</b>  | No, they do not.  |  |
| 4  | Q.   | Have you reviewed the Revised Little Bay Impact Assessment Report             |  |
| 5  | submitted to   | the SEC on September 19, 2017?  |  |
| 6  | <b>A.</b>  | Yes, I have. The report revises the description of impacts to Little Bay      |  |
| 7  | resources res  | ulting from the reduction in the burial depth in the channel (from 8 feet of  |  |
| 8  | cover to 5 fee   | et of cover). The impact assessment was informed by both the revised plume    |  |
| 9  | model and th   | e supplemental sediment testing.  |  |
| 10 | Q.   | Does the Revised Little Bay Impact Assessment Report change                   |  |
| 11 | anything in  | your previously filed testimony?  |  |
| 12 | <b>A.</b>  | Changes in the Project and additional data obtained through the revised       |  |
| 13 | plume model and sediment testing do not alter the characterization of impacts to Little    |   |  |
| 14 | Bay resource   | s that I presented in my previous testimony. The revised Little Bay Impact    |  |
| 15 | Assessment l   | Report documents these conclusions.   |  |
| 16 | Q.   | Have you reviewed the revised Little Bay Monitoring Plan submitted            |  |
| 17 | to the SEC o   | on September 19, 2017?  |  |
| 18 | <b>A.</b>  | Yes, I have. The September 2017 Little Bay Environmental Monitoring           |  |
| 19 | Plan provide   | s additional detail concerning the proposed monitoring plan addressing        |  |
| 20 | preliminary o  | comments from NHDES. The additions to the water quality monitoring plan       |  |
| 21 | include the in   | nclusion of Sentry Stations between the cable route and specific resources of |  |
| 22 | concern, prov  | vide greater detail on reporting procedures, describe how results will be     |  |
| 23 | evaluated, and describe actions to be taken in response to exceedances. Additions to the   |   |  |
| 24 | benthic infaunal community monitoring plan include clarification on the number of          |   |  |
| 25 | replicate benthic samples that will be collected and analyzed as well as the addition of a |   |  |
| 26 | second basel   | ine sampling event just prior to the in-water installation.                   |  |
| 27 | Q.   | Does the September 2017 revised Little Bay monitoring plan change             |  |
| 28 | anything in  | your previously filed testimony?  |  |
| 29 | <b>A.</b>  | No, it does not.  |  |
|    |  |   |  |

| 1  | Q.                  | Based on the information you provide above, what is your opinion              |
|----|---------------------|---|
| 2  | about the Pr        | oject's potential to impact resources in Little Bay?                          |
| 3  | <b>A.</b>           | It is my opinion that this Project will not have a significant adverse effect |
| 4  | on the resource     | ces of Little Bay along the cable crossing.                                   |
| 5  |                     | Kurt Nelson   |
| 6  | Q.                  | Has Eversource been actively involved in preparing soil and                   |
| 7  | groundwater         | management plans for this Project?  |
| 8  | <b>A.</b>           | Yes. Eversource has been working cooperatively with NH DES to                 |
| 9  | develop a Soi       | l and Groundwater Management Plan for the Town of Newington. The              |
| 10 | revised plan t      | hat is being submitted to NH DES is provided in Attachment B. This            |
| 11 | document als        | o includes a Soil and Groundwater Management Plan specific for the Darius     |
| 12 | Frink Farm as       | s Appendix A.   |
| 13 |                     | Sarah Allen, Ann Pembroke, and Kurt Nelson                                    |
| 14 | Q.                  | Have you reviewed the NHDES Final Recommendation issued on                    |
| 15 | February 28         | , 2018?   |
| 16 | <b>A.</b>           | Yes, we have. The NHDES final recommendation provides a permitting            |
| 17 | decision from       | the Agency on the parts of the SEC application that relate to NHDES           |
| 18 | permitting au       | thority, namely, wetlands, alteration of terrain, 401 water quality           |
| 19 | certification a     | and shoreland protection. The Applicant is in general agreement with the      |
| 20 | conditions in       | posed on the Project by the NHDES Final Recommendation. However, the          |
| 21 | Applicant do        | es have some concerns about certain conditions in the Final                   |
| 22 | Recommenda          | ation that we hope to resolve with Agency. If those concerns cannot be        |
| 23 | resolved—an         | d as discussed further below—we would ask that the SEC would review the       |
| 24 | NHDES prop          | osed conditions and only require the Applicant to comply with those           |
| 25 | conditions that     | at are demonstrated to be necessary based on the factual information in the   |
| 26 | record and the      | e testimony of the witnesses presented at the final adjudicative hearings.    |
| 27 | Q.                  | Has the Applicant addressed the two recommendations that NHDES                |
| 28 | suggested th        | at the SEC consider imposing on the Applicant pertaining to Horizontal        |
| 29 | <b>Direction Dr</b> | illing and conducting a jet plow trial run?                                   |

| 1  | <b>A.</b> Yes. In addition to NHDES's final recommendation to approve the  |
|--|--|
| 2  | Project as proposed, NHDES also recommended that that the SEC consider having the  |
| 3  | Applicant conduct a more thorough evaluation of Horizontal Directional Drilling (HDD)  |
| 4  | for installing the cable under Little Bay, and a trial jet plow run in Little Bay.   |
| 5  | On July 1, 2018, Eversource responded to the NHDES's request for the Applicant   |
| 6  | to provide additional information on HDD. Based on the information provided, it  |
| 7  | remains the opinion of the Applicant that the jet plow installation method is the preferred  |
| 8  | installation method for this Project.  |
| 9  | Regarding the jet plow trial run, the Applicant is proposing to conduct a 1,000  |
| 10   | foot trial jet plow run approximately 21 days prior to commencing the cable installation   |
| 11   | and providing the results of the trial run to NHDES 14 days prior to commencing cable  |
| 12   | installation, with the understanding that NHDES would issue a final approval 7 days after  |
| 13   | receipt of the jet plow trial run sampling data and results. See Supplemental Pre-Filed  |
| 14   | Testimony of Kenneth Bowes and David Plante. In our opinion, such a proposal is more   |
| 15   | than reasonable to establish baseline conditions for the jet plow installation and   |
|  |  |
| 16   | monitoring.  |
| 16<br>17   | Q. Has the Applicant identified any NHDES proposed conditions that are   |
|  |  |
| 17   | Q. Has the Applicant identified any NHDES proposed conditions that are   |
| 17<br>18   | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?   |
| 17<br>18<br>19   | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended   |
| 17<br>18<br>19<br>20   | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended NHDES conditions and permit recommendations and have identified a number of   |
| 17<br>18<br>19<br>20<br>21                                     | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended NHDES conditions and permit recommendations and have identified a number of technical and administrative issues relative to coordination and compliance with the  |
| 17<br>18<br>19<br>20<br>21<br>22                               | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended NHDES conditions and permit recommendations and have identified a number of technical and administrative issues relative to coordination and compliance with the permit conditions. The Applicant is concerned with the following numbered conditions:  |
| 17<br>18<br>19<br>20<br>21<br>22<br>23                         | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended NHDES conditions and permit recommendations and have identified a number of technical and administrative issues relative to coordination and compliance with the permit conditions. The Applicant is concerned with the following numbered conditions: WET-20, WET-25, WET-41, WET-42, WET-43, WET-44, WET-45, WET-46, WET-47,  |
| 17<br>18<br>19<br>20<br>21<br>22<br>23<br>24                   | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended NHDES conditions and permit recommendations and have identified a number of technical and administrative issues relative to coordination and compliance with the permit conditions. The Applicant is concerned with the following numbered conditions: WET-20, WET-25, WET-41, WET-42, WET-43, WET-44, WET-45, WET-46, WET-47, WET-49, WET-58, WET-59, WET-60, WET-61, WET-64 & 65, and WET-71 through  |
| 17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25             | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended NHDES conditions and permit recommendations and have identified a number of technical and administrative issues relative to coordination and compliance with the permit conditions. The Applicant is concerned with the following numbered conditions: WET-20, WET-25, WET-41, WET-42, WET-43, WET-44, WET-45, WET-46, WET-47, WET-49, WET-58, WET-59, WET-60, WET-61, WET-64 & 65, and WET- 71 through 81.   |
| 17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26       | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended NHDES conditions and permit recommendations and have identified a number of technical and administrative issues relative to coordination and compliance with the permit conditions. The Applicant is concerned with the following numbered conditions: WET-20, WET-25, WET-41, WET-42, WET-43, WET-44, WET-45, WET-46, WET-47, WET-49, WET-58, WET-59, WET-60, WET-61, WET-64 & 65, and WET- 71 through 81.  The specific concerns with conditions are fully described in an April 27, 2018   |
| 17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27 | Q. Has the Applicant identified any NHDES proposed conditions that are of concern for the Project?  A. Yes. Normandeau and Eversource have reviewed all of the recommended NHDES conditions and permit recommendations and have identified a number of technical and administrative issues relative to coordination and compliance with the permit conditions. The Applicant is concerned with the following numbered conditions: WET-20, WET-25, WET-41, WET-42, WET-43, WET-44, WET-45, WET-46, WET-47, WET-49, WET-58, WET-59, WET-60, WET-61, WET-64 & 65, and WET- 71 through 81.  The specific concerns with conditions are fully described in an April 27, 2018 letter to NHDES. <i>See</i> Attachment C. As part of our supplemental pre-filed testimony, we |

| 1  | Agency on permit conditions cannot be met, we request that the SEC consider the             |  |  |
|----|---|--|--|
| 2  | positions of the Applicant and make an ultimate decision on what permit conditions are      |  |  |
| 3  | reasonably necessary to ensure the protection of the natural environment and water          |  |  |
| 4  | quality. It is our understanding that the SEC may certificate conditions that are different |  |  |
| 5  | than those proposed by state agencies having permitting or other regulatory authority.      |  |  |
| 6  | We would request that the SEC use its authority to adjust or modify conditions that place   |  |  |
| 7  | significant and potentially unreasonable burdens on the Applicant during construction of    |  |  |
| 8  | the Project.  |  |  |
| 9  | Q. Ms. Allen, in your opinion, will this Project as amended have an                         |  |  |
| 10 | unreasonable adverse effect on air and water quality and the natural environment?           |  |  |
| 11 | A. No, the Project will not have an unreasonable adverse effect on air and                  |  |  |
| 12 | water quality and the natural environment. I also rely on the assessments and pre-filed     |  |  |
| 13 | testimony of my colleague, Ann Pembroke, at Normandeau Associates on marine                 |  |  |
| 14 | resources and water quality. I rely upon the reports and conclusions drawn in the           |  |  |
| 15 | Sediment Dispersion Models and Sediment Characterization Reports that have been             |  |  |
| 16 | provided to the SEC that were developed by Dr. Craig Swanson and Bjorn Bjorkman. Ir         |  |  |
| 17 | addition, I have reviewed the Soil and Groundwater Management Plans applicable for          |  |  |
| 18 | this Project, which avoid and minimize potential effects to ground and surface waters       |  |  |
| 19 | during construction in the Town of Newington. The Project has carefully considered air      |  |  |
| 20 | quality, water quality and natural resource issues and minimized impacts where feasible     |  |  |
| 21 | and reasonable.   |  |  |
| 22 | The Project will not result in additional combustion of fuels to produce electricity        |  |  |
| 23 | and, therefore, will not create any air emissions during operation. Generators that may be  |  |  |
| 24 | used during construction of the Project will be operated in compliance with permitting      |  |  |
| 25 | and emission requirements.  |  |  |
| 26 | As in the original application, permanent wetland and stream impacts have been              |  |  |
| 27 | avoided, and unavoidable impacts have been minimized to the extent practicable. The         |  |  |
| 28 | proposed compensatory mitigation for unavoidable impacts to wetland resources is            |  |  |
| 29 | adequate for the small and scattered permanent impacts from the Project. The vast           |  |  |
| 30 | majority of direct wetland impacts are temporary, and measures to ensure appropriate        |  |  |

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| 1  | habitat prote   | ction and restoration will be applied during construction. These will include |  |
|----|---|---|--|
| 2  | regular oversight by an environmental monitor to ensure compliance with the Project-  |   |  |
| 3  | specific environmental protection requirements, removal of all equipment, timber mats |   |  |
| 4  | and erosion controls; surface raking to eliminate ruts; and seeding bare areas.       |   |  |
| 5  | The final Project design does not have a significant adverse effect on rare plants    |   |  |
| 6  | or wildlife species, or change our assessment of effects to wildlife habitat.         |   |  |
| 7  | Over  | all, the potential adverse effects of the Project on water resources and      |  |
| 8  | wildlife habi   | tat remain reasonable, and are substantially mitigated.                       |  |
| 9  | Q.  | Does this conclude your joint supplemental pre-filed testimony?               |  |
| 10 | A.  | Yes.  |  |