

**THE STATE OF NEW HAMPSHIRE
BEFORE THE
DEPARTMENT OF ENERGY**

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
d/b/a EVERSOURCE ENERGY**

DOCKET No. CRE 2023 - 012

**APPLICATION OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A
EVERSOURCE ENERGY FOR A LICENSE TO CONSTRUCT AND MAINTAIN
ELECTRIC LINES OVER AND ACROSS PUBLIC WATERS AND STATE-OWNED
LAND IN CONCORD, BOW, PEMBROKE, AND ALLENSTOWN, NEW HAMPSHIRE**

Pursuant to RSA 371:17, Public Service Company of New Hampshire d/b/a Eversource Energy (“Eversource” or “the Company”), a public utility engaged in the transmission, distribution and sale of electricity in the State of New Hampshire, hereby submits an application to the Department of Energy (“Department”), for a license to construct and maintain electric lines over and across public waters and State-owned land in Concord, Bow, Pembroke, and Allenstown, New Hampshire. In support of this application Eversource states as follows:

1. In order to meet the requirements for reasonable service to the public, Eversource has previously constructed and currently operates and maintains an overhead 115 kV electrical transmission line, designated as the Eversource G146 Line, originally constructed in 1951 over and across public waters and State-owned land in Concord, Bow, Pembroke, and Allenstown, New Hampshire. The public water crossings at the Merrimack River between Structures 184 and 185, that is included in this application was previously licensed in 1976 under DE 76-22. The public water crossings at the Suncook River between Structures 118 and 119, at the Suocook River at Structures 176 and 177, and the State-owned land crossings between Structures 110 to 119 have not been previously licensed. As result of this application, the G146 line will be licensed in its entirety.
2. As part of its ongoing asset condition inspection program, Eversource determined that certain existing wood structures at the Merrimack River, Suncook River and Soucook River

crossings and State-owned land crossing spans that are the subject of the application, Structures 110 to 119, 176 to 177, and 184 to 185 need to be replaced promptly to continue to function safely and reliably. Those structures will be replaced with weathering steel equivalents that will be located within 10' of the current structure location. The G146's existing three conductors, single OPGW wire, and single static wire, whose specifications are identified on Exhibit 2 through 8, will be unchanged in the course of performing the steel structure replacements.

3. The location of the public water crossings and State-owned land crossing which are the subject of this application are depicted on the Overview Map attached hereto as Exhibit 1 and a more detailed location description is as follows:

Exhibits 2 through 6 - The G146 Line crosses a State-owned land parcel associated with Bear Brook State Park in the Towns of Allenstown and Pembroke between Structures 110 and 119, which span starts approximately 2,600 feet northwest from where the G146 Line crosses New Rye Road, which is approximately 3,100 feet northeast from the intersection of Deerfield Road and New Rye Road. The State-owned land crossing span extends northwesterly approximately 4,437 feet to the east bank of the Suncook River, where the State-owned land parcel ends.

Exhibit 6 - The Suncook River crossing span between Structures 118 and 119 commences approximately 7,060 feet northwesterly from where the G146 Line crosses New Rye Road, which is approximately 3,100 feet northeast from the intersection of Deerfield Road and New Rye Road. The waterbody crossing span extends west approximately 89 feet to the west bank of the Soucook Rive, which is adjacent to where the G146 Line crosses Bachelder Road, which is approximately 1,050 feet northeast from the intersection of Bachelder Road and N. Pembroke Rd.

Exhibit 7 – The G146 Line crosses the Soucook River in the Towns of Concord and Pembroke, NH between Structures 176 and 177, which span commences approximately 2,100 northeast from where the G146 Line crosses Garvins Falls Road, which is approximately 1.61 miles southeast from the intersection of Garvins Falls Road and Manchester Street (aka NH Route 3) in Concord. The waterbody crossing span extends northeast approximately 60.1 feet to the east bank of the Soucook River.

Exhibit 8 – The G146 Line crosses the Merrimack River in the Towns of Bow and Concord between Structures 184 and 185, which span commences near the end of Garvins Falls Road in the Town of Bow, approximately 265 feet south of where Garvins Falls Road crosses the existing Pan Am railroad and extending east approximately 790 feet to the east bank of the Merrimack River, to Structure 185. That easterly end of the span is approximately 1,500 feet

west from where the G146 Line crosses Garvins Falls Road, which is approximately 1.65 miles southeast from the intersection of Garvins Falls Road and Manchester Street (State Route 3).

4. Wire specifications and loading condition to establish maximum sag for the crossing span that is the subject of this application is as indicated on Profile View and Cable Schedule of Exhibit 2 through 8.

5. The location of structures and max sag conditions creates the following crossing span:

(a) State-owned Land: Allenstown Map/Block/lot 408/Lot 1 (Exhibit 2 to 6)

i.Structures: 110 to 119

ii.Structure Span (ft): 4,686.9

iii.State-owned land Span (ft): 4,437.9

(b) Public water: Suncook River (Exhibit 6)

i.Structures: 118 to 119

ii.Structure Span (ft): 653

iii.Suncook River Span (ft): 89.5

(c) Public water: Soucook River (Exhibit 7)

i.Structures: 176 to 177

ii.Structure Span (ft): 569.8

iii.Soucook River Span (ft): 60.1

(d) Public water: Merrimack River (Exhibit 8)

i.Structures: 184 to 185

ii.Structure Span (ft): 790.8

iii.Merrimack River Span (ft): 528.4

6. All conductors and wires have been drawn on Exhibit 2 through 8 to show the minimum clearance at maximum sag conditions in reference to the public water and State-owned land crossings. Flood elevation for the Merrimack River, Suncook River and Soucook River crossing spans used in calculating clearance is based on FEMA flood map data as indicated in Note 3 to Exhibit 6 through 8.

7. Eversource will maintain and operate the clearances of the crossings at a height no less than what is required by the 2012 National Electrical Safety Code (NESC, Table 232-1) which is 20.1' for 115 kV conductor over areas traversed by vehicles including cultivated, grazing, forest and orchard lands, industrial sites, commercial sites, etc. in respect to the crossing between Structures 110 to 119 (Exhibit 2 through 6), and 18.6' for 115 kV conductor over waters not

suitable for sailboating or where sailboating is prohibited in respect to the crossing between Structures 118 to 119 (Exhibit 6), 176 to 177 (Exhibit 7), and 184 to 185 (Exhibit 8). The actual minimum height over the public water and State-owned land is depicted on the attached Exhibit 2 through 8 and exceeds the respective minimum requirements.

8. A New Hampshire Department of Environmental Services (NHDES) wetland statutory permit by notification (SPN) and Shoreland Permit Notification (PBN) will be required for temporary impacts associated with certain of the structure replacements and will be obtained prior to commencement of construction.

9. The U.S. Army Corps of Engineers (ACOE) does regulate the subject portion of the Merrimack River as navigable waters and scope of work discussed in this application at that crossing location is covered through Self-Verification process under the ACOE New Hampshire Programmatic General Permit #4, provided that there will be no decrease in existing clearances, which is the case for the scope application herein. The ACOE does not regulate any parts of the Suncook River or the Soucook River.

10. The structure replacement work will be accomplished within existing right-of-way easements thereby mitigating impacts and concerns of property owners affected by the project scope.

11. Eversource submits that the license applied for herein may be exercised without substantially affecting the use and enjoyment of the public waters and State-owned land because safe clearances will be maintained at all times.

WHEREFORE, Eversource respectfully requests that the Department:

1. Find that the license applied for herein may be exercised without substantially affecting the public rights in the public water and State-owned land crossing which is the subject of this application;

2. Grant Eversource a license to construct and maintain electric lines over public water and across State-owned land described in this application;

Dated at Manchester, New Hampshire this 15th day of June, 2023.

Respectfully submitted,
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
D/B/A EVERSOURCE ENERGY
By Its Attorney

A handwritten signature in black ink, appearing to read "Erik", is positioned above the typed name of the attorney.

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