

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

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

DOCKET No. CR 2022 - 021

**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 GOFFSTOWN, NEW HAMPSHIRE**

Pursuant to RSA 371:17, Public Service Company of New Hampshire d/b/a Eversource Energy (“Eversource”), a public utility engaged in the transmission, distribution and sale of electricity in the State of New Hampshire, hereby submits an application the Department of Energy (“Department”) for a license to construct and maintain electric lines over and across public waters and state-owned land in Goffstown, 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 F162 Line, which was rebuilt in 2008. The original construction date of the line is unknown, however easements at the area of the crossings date back to 1967. The public water crossing at Glen Lake that is included in this application was previously licensed in 2007 under DE 07-071 (Order No. 24,772), when the line was re-built. The state owned land that is the subject of this application has not been previously licensed owing to an apparent oversight.

2. As part of its ongoing asset condition inspection program, Eversource determined that the existing wood structures at the state owned land and public waterbody crossing that are the subject of this application need to be replaced promptly to continue to function safely and reliably. Structures 1, 2, and 3 at the state owned land span and the Glen Lake crossing span will be replaced

with weathering steel equivalents that will be located within 10' of the current structures' locations. Structure 4 was inspected and is in good reliable condition and will not be changed or replaced in conjunction with the upcoming maintenance project.

3. In addition to the structure replacements, the existing pole top OPGW wire between F162 Structures 1¹ and 2 is being removed and replaced with an ADSS wire having the specifications and configuration shown on the Cable Schedule and Structure Details on Exhibits 2, and 3. The new ADSS wire will be supported by F162 Structure 2 and two new stub poles off set from the F162 line, shown as Structure ADSS/1 and ADSS/2 in Exhibits 3 and 4. The purpose of the new stub poles offset locations is to accommodate the future replacement of the Greggs Substation located on Eversource property (Map 5, Block 15), planned for 2023. The three existing conductors, the existing static wire and the existing OPGW wire between Structures 2 to 4 at the crossing spans shall remain unchanged in the course of performing the structure replacements. The specifications and configuration of those existing wires are shown on the Cable Schedule and Structure Details on Exhibits 2 and 3.

4. The locations of the public water and state owned land crossings 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:

Exhibit 2, 3 and 4 – The F162 Line crosses state owned land in the Town of Goffstown between Structures 1 and 4, which span commences approximately 375 feet west from the west side of the Greggs Substation, which is located off Mast Road in Goffstown between the Goffstown Rail Trail Parking Lot and the Greggs Falls Dam/Hydroelectric Station. The State land crossing extends west/southwest approximately 1,000 feet to the east edge of an inlet where Dan Little Brook deposits into Glen Lake, which is along the south shore of Glen Lake.

The F162 Line crosses the public waters of Glen Lane in the Town of Goffstown between Structures 3 and 4, which span commences approximately 1,375 feet west from the west side of Greggs Substation, which is located off Mast Road in Goffstown between the Goffstown

¹ The existing pole top OPGW extends from the west to F162 Str 1; at Str. 1 the OPGW becomes an ADSS underbuild (which will be eliminated in conjunction with the addition of the new ADSS wire from the substation to F162 Str. 2) that extends to the C196 Line Str 144 and then ultimately into the Greggs substation. None of the foregoing discussion of the existing OPGW and ADSS, from F162 Str. 1 to Greggs substation, is located on state owned land.

Rail Trail Parking Lot and the Greggs Falls Dam/Hydroelectric Station. The waterbody crossing extends west approximately 244 feet to the west edge of the Glen Lake, which is on an inlet where Dan Little Brook deposits into Glen Lake along the south shore of Glen Lake.

5. Wire specifications and loading condition to establish maximum sag for the crossing span that is the subject of this application are as indicated on Profile View and Cable Schedule of Exhibits 2, 3, and 4.

6. The location of structures and max sag conditions creates the following crossing spans:

(a) State owned Land Map/Block/Lot: Goffstown Map/Lot 5/15/1 (Exhibit 2 & 4)

- i. Structures: 1 to 4
- ii. Structure Span (ft): 1,000
- iii. State Land Span (ft): 629.6

(b) State owned Land Map/Block/Lot: Goffstown Map/Lot 5/15/1 (Exhibit 3 & 4)

- i. Structures: F162/2 to ADSS/2
- ii. Structure Span (ft): 378.9
- iii. State Land Span (ft): 148.1

(c) Public water: Glen Lake (Exhibit 2 & 4)

- i. Structures: 3 to 4
- ii. Structure Span (ft): 488
- iii. Glen Lake Span (ft): 244.6

7. All conductors and wires have been drawn on Exhibit 2, 3, and 4 to show the minimum clearance at maximum sag conditions in reference to the state owned land crossings and public water crossing. Flood elevation for Glen Lake crossing span used in calculating clearance is based on FEMA flood map data as indicated in Note 3 to Exhibit 2.

8. 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 30.1 feet for 115 kV wires over water areas suitable for sailboating including lakes, ponds, reservoirs, tidal waters, rivers, streams and canals with an unobstructed surface area of 20 to 200 acres in respect to the public water crossing depicted on Exhibit 2, and which is 20.1 feet for 115 kV wires and 15.5 feet for communication cable over areas traversed by vehicles such as

cultivated, grazing, forest and orchard lands, industrial sites, commercial sites, etc. in respect to the state owned land span depicted on Exhibit 2, 3 and 4. The actual minimum height over the public water and state owned land is depicted on the attached Exhibit 2, 3, and 4 and exceeds the respective minimum requirements.

9. A New Hampshire Department of Environmental Services (NHDES) Shoreland Permit Notification (PBN) will be required for temporary impacts associated with the structure replacements and will be obtained prior to commencement of construction.

10. The U.S. Army Corps of Engineers (ACOE) does not regulate the subject portion of Glen Lake as navigable waters. As a result, a crossing permit ACOE is not required.

11. The structure replacement and ADSS installation work will be accomplished within existing right-of-way easements and Eversource fee owned property, thereby mitigating impacts and concerns of property owners affected by the project scope. When wires are being transferred, Eversource will ensure the waterbody is clear of any recreational users before work commences. Additionally, a guard structure will be utilized when wires are being transferred from the old structure to the new, to limit the possibilities of the wire falling into the lake or the state owned land to protect the general public.

12. Eversource submits that the license application 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 and appropriate precautions to ensure the safety of recreational users will be undertaken while the maintenance work is performed.

WHEREFORE, Eversource respectfully requests that the Department:

1. Find that the license application herein may be exercised without substantially affecting the public rights in the public waters and state owned land crossing which are the subject of this application;

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

Dated at Manchester, New Hampshire this 31st day of August, 2022.

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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