

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

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

DOCKET No. CR 2023 - 025

**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 and the state owned land adjacent to Glen Lake that is the subject of this application were previously licensed in 2022 under CRE 2022-021¹, and the public water crossings at Piscataquag River that is also subject of this application were previously licensed in 2007 under Order No. 24,772 (DE 07-071).

¹ CRE 2022-021 additionally licensed crossing of the same state owned land parcel which is the subject of this application for a spur extending from F162 Str. 2 to Structures ADSS/1 and ADSS/2. That spur span will be unchanged as part of this project and is therefore not the subject of this application.

2. As part of its ongoing asset condition inspection program, Eversource determined that the remaining existing wood structures at the state-owned land and public waterbody crossings that are the subject of this application need to be replaced promptly to continue to function safely and reliably. Structure 4 at the state owned land span and the Glen Lake crossing span, and Structures 37, 38, 40 and 41 at the Piscataquag River crossing spans will be replaced with a weathering steel equivalent that will be located within 10' of the current structures' locations.

3. In addition, the Greggs Substation (a.k.a. Greggs Reactor) is being rebuilt and expanded to enhance reliability and serve system needs. As part of the substation rebuild, previously licensed Structure 1, located on Eversource fee owned property, is being removed to accommodate for the Greggs Substation expansion. The Greggs Substation takeoff structure for the F162 will thereafter commence at Structure GR (identified on Exhibit 2) located in the proposed expanded substation.

4. In addition to the structure replacements and substation expansion, the existing pole top static wire is being removed and replaced with an OPGW wire having the specifications and configuration shown on the Cable Schedule and Structure Details on Exhibits 2 through 5 and described therein as "48F \varnothing 0.646" AFL DNO-11852". The three existing conductors and the second existing OPGW wire 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 through 5.

5. 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 and 3 – The F162 Line crosses state owned land in the Town of Goffstown between the Greggs Substation (Structures GR) and Structure 4, which span commences from the take off structure located at 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 owned land crossing extends west/southwest approximately 627 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 Lake in the Town of Goffstown between Structures 3 and 4, which span commences at Structure 3 approximately 708 feet west from the west side of 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 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.

Exhibit 4 - The F162 Line crosses the Piscataquag River in the Town of Goffstown between Structures 37 and 38, which span commences at Structure 37 approximately 4,450 feet northwest from where the F162 Line crosses NH Route 13, which is approximately 415 feet west from the intersection of NH Route 13 and Bell Road in Goffstown. The waterbody crossing extends west approximately 59.1 feet to the west bank of the Piscataquag River.

Exhibit 5 - The F162 Line crosses the Piscataquag River in the Town of Goffstown between Structures 40 and 41, which span commences at Structure 40 approximately 5,885 feet northwest from where the F162 Line crosses NH Route 13, which is approximately 415 feet west from the intersection of NH Route 13 and Bell Road in Goffstown. The waterbody crossing extends west approximately 48.3 feet to the west bank of the Piscataquag River, which is approximately 450 feet southeast from where the F162 Line crosses NH Route 114 (aka North Mast Road), at the intersection of Parker Road and NH State Route 114.

6. 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 through 5.

7. 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 to 3)
 - i. Structures: GR to Str 4
 - ii. Structure Span (ft): 1,041.3
 - iii. State Land Span (ft): 627.7

 - (c) Public water: Glen Lake (Exhibit 3)
 - i. Structures: 3 to 4
 - ii. Structure Span (ft): 493
 - iii. Glen Lake Span (ft): 244.7

 - (c) Public water: Piscataquag River (Exhibit 4)
 - i. Structures: 37 to 38

- ii. Structure Span (ft): 434.6
- iii. Piscataquag River Span (ft): 59.1

(c) Public water: Piscataquag River (Exhibit 5)

- i. Structures: 40 to 41
- ii. Structure Span (ft): 423.5
- iii. Piscataquag River Span (ft): 48.3

8. All conductors and wires have been drawn on Exhibit 2 through 5 to show the minimum clearance at maximum sag conditions in reference to the state owned land crossing and public water crossings. Flood elevations for the Glen Lake and Piscataquag River crossing spans used in calculating clearance is based on FEMA flood map data as indicated in Note 3 to Exhibit 3, 4 and 5.

9. 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 3; 18.6 feet for 115 kV wires over water areas not suitable for sailboating or where sailboating is prohibited in respect to the public water crossings depicted in Exhibit 4 and 5; and which is 20.1 feet for 115 kV wires 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 Exhibits 2 and 3. The actual minimum height over the public waters and state owned land is depicted on the attached Exhibit 2 through 5 and exceeds the respective minimum requirements.

10. A New Hampshire Department of Environmental Services (NHDES) Shoreland Permit Notification (PBN) and Statutory Permit by Notification will be required for temporary impacts associated with the structure replacements OPGW installation described in this application and will be obtained prior to commencement of construction.

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

12. The structure replacement and OPGW 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, river or the state owned land, to protect the general public.

13. 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; and
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 6th day of November, 2023

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



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