

**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 -

**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 IN CONCORD, 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 in Concord, 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 C189 Line, which was originally built in 1951 between Curtisville Substation in Concord and Farmwood Substation in Concord. The public water crossing at Turtle Town Pond (aka Turtle Pond) that is the subject of this application was previously licensed as the V-182 Line in 2008 under DE 08-064-22 (Order No. 24,859). The V182 Line was bifurcated in 2017, and the section of line with the subject crossing was renamed the C189 Line. In 2017, two structures at the subject crossing, Structures 84 and 85, were replaced from wood to weathering steel without obtaining a license owing to an oversight. The C189 Line will be licensed in its entirety as a result of this application.

2. The proposed project for the C189 encompasses a structure replacement and structure renumbering project. Except for Structures 84 and 85 (new Structure 27 and 28) previously replaced, the remaining wood structures at the public water crossing span will be replaced with a

weathering steel equivalent having the design and specification depicted and noted in the Structure Details of Exhibits 2 through 4. The structures at the public water crossing will be renumbered; original Structures 79 through 87 will be renumbered to 22 through 30.

3. The new structure locations will be installed within 10 feet of the existing locations. Structures 84 and 85 (new Structure 27 and 28) were also installed within 10 feet of the prior structure location.

4. The locations of the public water crossing which is the subject of this application is depicted on the Overview Map attached hereto as Exhibit 1 and a more detailed location description is as follows:

Exhibit 2 through 4 – The C189 Line crosses Turtle Town Pond in the City of Concord between new Structures 22 and 30, which span begins approximately 75 feet southeast from where the C189 Line crosses Appleton Street, which is approximately 4,200 feet west to the intersection of Appleton Street and Cemetery Street. The public water crossing extends northwest approximately 3,272 feet to the northwest side of Oak Hill Road, and coincides with the edge of Turtle Town Pond based on the flood elevation (El. 321) used for establishing safe clearances. At this location, the C189 Line crosses Oak Hill Road approximately 950 feet southwest to the intersection of Oak Hill Road and Irving Drive.

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 Exhibit 2 through 4.

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

(a) Public water: Turtle Town Pond (Exhibits 2 through 4)

i. New Structures: 22 to 30

ii. Structure Span (ft): 3,747.3

iii. Turtle Town Pond Span (ft): 3,102.5*

*Span distance excludes upland area between new Structures 25 and 26

7. All conductors and wires have been drawn on Exhibit 2 through 4 to show the minimum clearance at maximum sag conditions in reference to the public water crossing. FEMA Flood elevation for Turtle Town Pond are not available. The water elevation at the crossing span used

in calculating clearance are based on a conservative measure of a water elevation assessment as indicated in Note 3 to Exhibit 2 through 4.

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 over 20 to 200 acres in respect to the public water crossing depicted on Exhibits 2 through 4. The actual minimum height over the public water are depicted on the attached Exhibit 2 through 4 and exceeds the minimum requirement.

9. A New Hampshire Department of Environmental Services (NHDES) Statutory Permit by Notification (SPN), and Shoreland Permit Notification (PBN) will be required for temporary impacts associated with the structure replacements described in this application and will be obtained prior to commencement of construction. A NHDES wetland permit (DES # 2016-00700) was obtained for the impacts associated with the prior replacement of Structures 84 and 85 (renumbered 27 and 28).

10. The U.S. Army Corps of Engineers (ACOE) does not regulate Turtle Town Pond as navigable waters. As a result, a crossing permit from ACOE is not required.

11. 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. 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 waterbody 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 water 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 water crossing which is the subject of this application;
2. Grant Eversource a license to construct and maintain electric lines over and across public water described in this application;

Dated at Manchester, New Hampshire this 12th day of January, 2023.

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



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