

**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 - 010

**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 CANTERBURY, FRANKLIN, AND NORTHFIELD, 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 public waters in Northfield and Franklin, and State-owned land in Canterbury and Franklin, 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 V182 Line, which was originally built in 1951, and rebuilt in 2007 with wood structures. The V182 Line crosses State-owned land between existing Structures 176 and 177, 209 and 210, and 268 and 269, which crossing spans were not previously licensed due to the line being built prior to the State having ownership, or due to an oversight. The public water crossings at the Merrimack River between existing Structures 208 and 209 and at Chance Pond Brook between Structures 267 and 268 was previously licensed under DE 08-064 (Order No. 24,859). Structure 208 was subsequently replaced from wood to steel in 2020 and was not licensed due to an oversight. As result of this application, the V182 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 State-owned land and public water crossing spans that are the subject of the application, Structures 69 and 70, Structures 102 and 103, and Structures 160 to 162, need to be replaced promptly to continue to function safely and reliably. The replaced structures will be renumbered from the old structures being 176, 177, 208, 209, 210, 267, 268, and 269 to the new structures being 69, 70, 101, 102, 103, 160, 161, and 162, respectively. The replacement structures will be weathering steel equivalents that will be located within 10' of the original structure location. Structure 101 (old structure 208) was replaced in 2020 from wood to steel within 10' of its original location and remains in operational condition. The V182's existing three conductors, one static wire, and one optical ground wire (OPGW), whose specifications are identified on Exhibit 2 through 5, will be unchanged in the course of performing the structure replacements.

3. The locations of the State-owned land and public water 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– V182 Line crosses a State-owned land parcel administered by NH Department of Transportation in the Town of Canterbury and is located between Structures 69 and 70 (old Structures 176 and 177), which span commences approximately 65 feet northwest from where the V182 Line crosses Interstate 93 in Canterbury, which is approximately 1.5 miles north of Exit 18 on Interstate 93. The span continues approximately 89 feet northwest to the property boundary between state-owned land and Map 236, Lot17 in the Town of Canterbury.

Exhibits 3 and 4 - The V182 crosses the Merrimack River and State-owned land in the towns of Northfield and City of Franklin between structures 101 and 102 and 103 (old Structures 208, 209 and 210), which is located east of where the line crosses Route 3 in Franklin, approximately 1.05 miles north of the intersection of Route 3 and Stirrup Iron Road in Boscawen. The first State owned land boundary (Map 126, Lot 401) commences along the west bank of the Merrimack River and extends west approximately 240' where it abuts another State-owned land, identified as the Northern Rail Trail. The span crosses the second State owned property, encompassing the Northern Rail Trail corridor which has a width of 35.9'. The Merrimack River crossing occurs within the same span as described above, between Structure 101 and 102. The east bank of the river crossing occurs

approximately 0.65 miles west from where the line crosses Fiddlers Choice Road in Northfield.

Exhibit 5 – The V182 crosses Chance Pond Brook and State-owned land in the City of Franklin between Structures 160, 161 and 162 (old Structures 267, 268, and 269), which span commences approximately 30 feet northeast from where the V182 Line crosses Chance Pond Road, which is approximately 90 feet northwest from the intersection of Chance Pond Road and Carr Street. The span continues approximately 523 feet to the northeast bank of Chance Brook Pond. The State-owned land span, identified as the Northern Rail Trail, commences approximately 165 feet northeast from where the V182 Line crosses Garneau Road, which is approximately 365 feet northwest from the intersection of Garneau Road and Carr Street. The span continues approximately 15.9 feet northeast where the State-owned land abuts Map 76, Lot 1.

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 Exhibits 2 through 5. The flood elevation used to determine the clearance over the Merrimack River and Chance Pond Brook is as indicated in Note 3 to Exhibits 3 and 5, respectively.

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

- (a) State-owned Land: Canterbury Map/lot 251/7 (Exhibit 2)
 - i. Structures: 69 to 70 (new)
 - ii. Structure Span (ft): 660.3
 - iii. State-owned land Span (ft): 89.2

- (b) Public Water Crossing: Merrimack River, Northfield and Franklin (Exhibit 3)
 - i. Structures: 101 to 102 (new)
 - ii. Structure Span (ft): 610
 - iii. Merrimack River Span (ft): 319.9

- (c) State-owned Land: Franklin Map/Lot 126/401, Northern Rail Trail (Map/Lot not available) (Exhibit 3 and 4)
 - i. Structures: 101 to 103 (new)
 - ii. Structure Span (ft): 985.9
 - iii. State-owned land Span (ft): 276.5

- (d) Public Water Crossing: Chance Pond Brook (Exhibit 5)
 - i. Structures: 160 to 161 (new)
 - ii. Structure Span (ft): 523.3
 - iii. Chance Pond Brook Span (ft): 244.1

(e) State-owned Land: Franklin, Northern Rail Trial (Map/Lot not available)
(Exhibit 5)

i.Structures: 161 to 162 (new)

ii.Structure Span (ft): 220.7

iii.State-owned land Span (ft): 88.6

6. 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 and public water crossings.

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 28.1' for 115 kV conductor over top of track rail in respect to the crossing between Structures 69 and 70 (Exhibit 2), Structures 102 and 103 (Exhibit 4), and Structures 161 and 162 (Exhibit 5), and 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 101 and 103 (Exhibit 3 and 4), and is 30.1' for 115 kV conductor over water areas suitable for sail boating including lakes, ponds, reservoirs, tidal water, river, streams, and canals with an unobstructed surface area of over 20 to 200 acres in respect to the crossing between Structure 101 and 102, and is 18.6' for 115 kV conductor over water areas not suitable for sail boating or where sail boating is prohibited in respect to the crossing between Structure 160 and 161. The actual minimum height over the State-owned lands and public water is depicted on the attached Exhibits 2 through 5 and exceeds the respective minimum requirements.

8. A New Hampshire Department of Environmental Services (NHDES) Standard Dredge and Fill permit and a shoreland statutory permit by notification will be required for temporary impacts associated with the structure replacements and will be obtained prior to commencement of construction.

9. 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.
10. Eversource submits that the license applied for herein may be exercised without substantially affecting the use and enjoyment of the State-owned land and public waters because safe clearances will be maintained at all times.

WHEREFORE, Eversource respectfully requests that the Department:

1. Find that the license application for herein may be exercised without substantially affecting the public rights in the State-owned land and public water crossings which is the subject of this application;
2. Grant Eversource a license to construct and maintain electric lines over and across State-owned land and public waters described in this application;

Dated at Manchester, New Hampshire this 19th day of April, 2023.

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



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