

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

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

DOCKET No. CR 2022-023

**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 SANDWICH AND TAMWORTH, 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 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 Sandwich and Tamworth, 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 B112 Line, which was originally built in 1956 between Beebe River Substation in Campton and White Lake Substation in Tamworth. The state-owned land through White Lake State Park has been previously licensed in D-E3451 and Order No. 6683. The public waters and second state-owned land that is the subject of this application have not been previously licensed but the B112 Line will be licensed in its entirety as a result of this application.

2. The proposed project for the B112 encompasses a structure replacement and reconductoring project. All existing structures at the public waters and state-owned land crossing spans will be replaced with weathering steel equivalents having the design and specification depicted and noted in the Structure Details of Exhibits 2 through 9, except for existing structure

212 which will be removed and permanently eliminated. The replacement structures will be renumbered as detailed under the Structure Table enclosed herewith as Exhibit 10. The proposed project also encompasses reconductoring the three existing conductors with three new conductors having the specifications detailed under the Cable Schedule on Exhibits 2 through 9. Additionally, the single pole top mounted shield wire will be replaced with an OPGW communication cable and a second pole top OPGW will also be added having the specifications noted in the said Cable Schedules.

3. New and renumbered Structures 181, 182, 206 to 214, 237, 238, and 258 to 263 will be installed within 10 feet of the existing locations. Certain changes in structure heights are required to meet current safety and reliability clearance requirements for the replacement cables and new structure locations and also to address uplift specific to the surrounding terrain. Those height changes are detailed under the enclosed Structure Table as Exhibit 10.

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 – The B112 Line crosses the public water of the Cold River in the Town of Sandwich between existing structures 182 and 183 (new structure numbers 181 and 182), which span commences approximately 250 feet east from where the B112 Line crosses Cold River Road in Sandwich, which is approximately 475 feet west to the intersection of Cold River Road and Foss Flats Road. The public water crossing extends east approximately 58 feet to the east side of the Cold River, which abuts a large sand and gravel processing area.

Exhibit 3 to 6 – The B112 Line crosses state-owned land in the Town of Tamworth between existing structures 207 through 215 (new structure numbers 206 through 214), which span commences approximately 3,100 feet southeast from where the B112 Line crosses Bunker Hill Road, which is approximately 700 feet southwest from the intersection of Bunker Hill Road and Durell Road in Tamworth. The state land crossing extends south east approximately 1,000 feet, where it changes direction and extends an additional 1,150 feet east to the property boundary with Map 419, Lot 7, which is approximately 6,500 feet west from where the B112 Line crossings Durell Rd, which is approximately 825 feet northwest from the intersection of Acorn Lane and Durell Rd in Tamworth.

Exhibit 7 – The B112 Line crosses the public water of the Swift River in the Town of Tamworth between existing structures 239.5 and 240 (new structure numbers 237 and 238), which span commences approximately 1,250 feet east from where the B112 Line crosses Tamworth Road (aka NH Route 113) in Tamworth, which is approximately 450 feet south from the intersection of Hollow Hill Road and Tamworth Road (aka NH Route 113). The public water crossing extends east approximately 16 feet and 44 feet, respectively, to the east side of two channels of the Swift River, and terminates at the east side of the Swift River, which coincides with the property boundary between Map 415, Lot 78 and Map 415, Lot 69 in Tamworth, and is located approximately 1,700 feet west from where the B112 Line crosses Depot Road, which is approximately 3,000 feet southeast from the intersection of Depot Road and Tamworth Road (aka NH Route 113).

Exhibit 8 to 9 – The B112 Line crossings state-owned land in the Town of Tamworth between existing structures 261 through 266 (new structure numbers 258 through 263), which span commences approximately 7,500 feet east from where the B112 Line crosses Tamworth Road (aka NH Route 113), which is approximately 450 feet south from the intersection of Hollow Hill Road and Tamworth Road (aka NH Route 113). The state land crossing extends east approximately 1,850 feet to the property boundary with Map 214, Lot 214, which is approximately 440 feet west from where the B112 Line crosses Power Line Road, which is approximately 2,400 feet west from the intersection of Power Line Road and Maple Road in Tamworth.

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 through 9.

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

(a) Public water: Cold River (Exhibit 2)

- i. Structures: 181 to 182
- ii. Structure Span (ft): 532.6
- iii. Cold River Span (ft): 58.3

(b) State-owned Land Map /Lot: 419/3 (Exhibit 3 to 6)

- i. Structures: 206 to 214
- ii. Structure Span (ft): 3,619.3
- iii. State Land Span (ft): 3,505.4

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

- i. Structures: 237 to 238
- ii. Structure Span (ft): 739.2
- iii. Swift River Span (ft, two channels combined): 61.3

(b) State-owned Land Map /Lot: 203/15 (Exhibit 8 to 9)

- i. Structures: 258 to 263
- ii. Structure Span (ft): 2,077.6
- iii. State Land Span (ft): 1,850

7. All conductors and wires have been drawn on Exhibits 2 through 9 to show the minimum clearance at maximum sag conditions in reference to the state-owned land crossings and public water crossings. Flood elevation for the Cold River and Swift River crossing spans used in calculating clearance are based on FEMA flood map data and guidance as indicated in Note 3 on Exhibits 2 and 7.

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 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 on Exhibits 2 and 7, and which is 20.1 feet for 115 kV wires over other 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 3 through 6, 8 and 9. The actual minimum height over the public waters and state-owned lands are depicted on the attached Exhibits 2 through 9 and exceeds the respective minimum requirements in all locations.

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.

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

11. The structure replacements, conductor replacements and OPGW installation 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 waterbodies are 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 rivers 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 3rd day of November, 2022.

Respectfully submitted,
PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
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By Its Attorney



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