

THE STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION

PETITION OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A
EVERSOURCE ENERGY FOR LICENSE TO CONSTRUCT AND MAINTIN ELECTRIC
LINES OVER AND ACROSS THE WINNIPESAUKEE RIVER IN THE TOWNS OF
BELMONT AND TILTON, NEW HAMPSHIRE.

TO THE PUBLIC UTILITIES COMMISSION:

Public Service Company of New Hampshire d/b/a Eversource Energy (“Eversource”), a public utility engaged in the generation, transmission, distribution and sale of electricity in the State of New Hampshire), hereby petitions the Public Utilities Commission (“Commission”), pursuant to RSA 371:17, for a license to construct and maintain electric lines over and across the public waters of the Winnepesaukee River in the Towns of Belmont and Tilton, New Hampshire, and in support of this petition 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 overhead electric lines across the Winnepesaukee\ River in the Towns of Belmont and Titlton, New Hampshire, in a double-circuited configuration, consisting of the L176 transmission line (115 kV), and the underbuilt 398 line (34.5 kV) on the same structures. This existing crossing has been previously licensed by the Commission under Order No. 11,949, dated August 4, 1975, issued in Docket DE 75-149. The location of the crossing which is the subject of this petition is shown on the USGS locational drawing attached hereto as Figure 1.
2. Eversource is commencing a project to modify or rebuild a number of the structures on its existing L176 transmission line. The L176 structures are primarily double circuited with Line 398, which is a 34.5 kV distribution line. Certain of the existing L176 wood transmission line structures and associated distribution components are approximately 40 years old, have been subject to woodpecker and other environmental damage, and require replacement or modification for the lines to continue to function safely and reliably. This structure replacement and repair project is part of a capital reliability project necessary for the L176 transmission line to continue to meet current as well as future projected electricity demands. No conductor, shield wire or neutral wire will be replaced as part of this project; instead, existing conductors and wires will be transferred to the new, replaced structures.
3. The rebuild of the L176 transmission line will include the rebuild of the double-circuited lines over the Winnepesaukee River in Belmont and Tilton, New Hampshire, as shown in the attached plan and profile design drawing, Exhibit 1, and will require a new crossing license from the Commission. The new crossing has been designed and will be constructed

in accordance with the National Electrical Safety Code (NESC). In this location, the existing crossing structure 92 will be changed out and replaced with a taller structure, while existing crossing structure 93 will remain without change.

4. Wire and structure specifications:
 - a. Winnepesaukee River (Exhibit #1):
 - i. Wire:
 1. Shield Wire: 7#8 Alumoweld
 2. Transmission Wire: 795 kcmil ACSR 26/7
 3. Distribution Wire: 477 kcmil ACSR 26/7
 - ii. Structure Types and Pole Heights: From west to east
 1. Str 92: DCSDE-1 Monopole, 110' OAL (89' AGH)
 2. Str 93: DC-RA 2-Pole, 2-80' AGH (existing to remain)
5. The location of the structures creates the following crossing span:
 - a. Winnepesaukee River: 567.49 feet (structure to structure)
6. All conductors have been drawn in Exhibit 1 to show the maximum sag conditions in reference to the water.
7. The Petitioner will maintain and operate the clearance of the wire crossing over the River at a height no less than is required by the 2017 National Electrical Safety Code (NESC, Table 232-1). The Winnepesaukee River crossing requires 17.0 feet for 34.5kV and 18.6 feet for 115 kV open supply conductors over water areas not suitable for sail boating. The minimum height over the River is depicted on the attached profile drawing (Exhibit 1).
8. FEMA flood zone data is not available for municipalities within Belknap County, which includes the Town of Tilton and the Town of Belmont Therefore, the areas under consideration along the Winnepesaukee River, located in Belmont and Tilton, NH, do not have available FEMA flood zone data available. However, the reference line elevations from New Hampshire Department of Environmental Services (NHDES) for the Winnepesaukee River (Silver Lake outflow) is 465'.
9. A New Hampshire Division of Environmental Services (NHDES) Shoreland Permit by Notification application is required for construction activities in the vicinity of Silver Lake. The permit by notification application was submitted on August 31, 2017 (File #2017-02627).

10. A NHDES Standard Wetlands Permit is required for construction activities which involve the alteration of nontidal wetlands, nontidal surface waters, and banks adjacent to nontidal surface waters in excess of 20,000 square feet in the aggregate. A permit application was approved by NHDES on August 10, 2017 (see NHDES File # 2017-02402). In addition, on December 7, 2017, the U.S. Army Corps of Engineers also issued Permit #NAE 2017-02316 under the General Permit for the State of New Hampshire.
11. It is not anticipated that abutters on either side of the Winnepesaukee River will be affected, as these are modifications of existing lines. Adjacent shoreline properties not owned by Eversource are subject to existing licensing rights or Eversource easements with widths as shown on the Exhibit 1.
12. Eversource submits that the license petitioned for herein may be exercised without substantially affecting the rights of the public in the waters of the Winnepesaukee River. Minimum safe line clearances above the River surfaces and affected shorelines will be maintained at all times. The use and enjoyment of the public of the River will not be diminished in any material respect as a result of the overhead line crossings.

Wherefore Eversource respectfully requests that the Commission:

1. Find that the license petitioned for herein may be exercised without substantially affecting the public waters which are the subject of this petition;
2. Grant Eversource a license to construct and maintain electric lines over and across the Winnepesaukee River as identified and described in this petition; and
3. Issue an Order Nisi and orders for its publication.

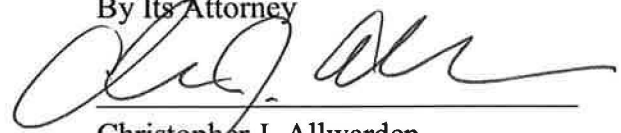
[SIGNATURE PAGE FOLLOWS]

Dated at Manchester, New Hampshire this 30th day of April, 2018.

Respectfully submitted,

PUBLIC SERVICE COMPANY OF
NEW HAMPSHIRE D/B/A
EVERSOURCE ENERGY

By Its Attorney



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