

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

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

**DOCKET No. CR 2024 - 002**

**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 EAST KINGSTON,  
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 East Kingston, 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 345 kV electrical transmission line, designated as the Eversource 363 Line, originally constructed in 1982. The 363 Line crossing, that is the subject of this application, was last licensed in 2013 under DE 13-015 (Order No. 25,493).

2. As part of its ongoing asset condition inspection program, Eversource determined that Structure 59 at the public waterbody crossing needs to be replaced to continue to function safely and reliably. Structure 59 at the Powwow River crossing will be replaced with a weathering steel equivalent and will be located within 10’ of the current structure location. The opposite steel structure, Structure 60, that is subject of this application was similarly inspected and is in good condition and not in need of replacement at this time.

3. The six existing conductors, the existing static wire and optical ground wire will 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 Exhibit 2.

4. The location of the public water 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 – The 363 Line crosses the Powwow River in East Kingston, New Hampshire between Structures 59 and 60, which span begins approximately 1,050 feet west of where the 363 Line crosses NH Route 107A, which is approximately 2,780 feet northwest from the intersection of NH Route 107A and Clements Lane, in East Kingston. The span extends west approximately 196 feet to west bank of the Powwow River, which is approximately 1,650 feet east from where the 363 Line crosses Haverhill Road (aka NH Route 108), which is approximately 1,760 feet south from the intersection of Haverhill Road (aka NH Route 108) and Rowell Road.

5. 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 on Exhibit 2.

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

- (a) Public water: Powwow River (Exhibit 2)
  - i. Structures: 59 to 60
  - ii. Structure Span (ft): 677.6
  - iii. Powwow River Span (ft): 196.5

7. All conductors and wires have been drawn on Exhibit 2 to show the minimum clearance at maximum sag conditions in reference to the public water crossings. FEMA flood elevation for the Powwow River is not available at this location. The reference flood elevation at the crossing span used in calculating clearance is based on field observations specific to water height and topography in order to determine a conservative flood elevation, which is determined to be elevation 107' North American Vertical Datum of 1988 (NAVD88), as indicated in Note 3 to Exhibit 2. Flood elevation 107' (NAVD88) for the reference span was applied in the license issued in 2013 under

DE 13-015 (Order No. 25,493 and as noted in the following paragraph, this crossing continues to exceed that conservative elevation by more than 19’.

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: 23.0 feet for 345 kV wires over water areas not suitable for sail boating or where sail boating is prohibited in respect to the public water crossing depicted on Exhibit 2. The actual minimum height over the public water is depicted on the attached Exhibit 2 and exceeds the minimum requirements.

9. A New Hampshire Department of Environmental Services (NHDES) wetland statutory permit by notification (SPN) and Shoreland Permit Notification (PBN) will be required for temporary impacts associated with the structure replacements 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 Powwow River as navigable waters. As a result, a crossing permit from the 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 river 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 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 applied for herein may be exercised without substantially affecting the public rights in the public water crossing which are 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 19<sup>th</sup> day of March, 2024.

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



Erik R. Newman, Senior Counsel, Legal  
780 North Commercial Street  
Manchester, NH 03101  
(603) 634-2459