

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 MAINTAIN ELECTRIC LINES OVER AND ACROSS THE UPPER AMMONOOSUC RIVER  
IN THE TOWN OF DUMMER, 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 Upper Ammonoosuc River in the Town of Dummer, New Hampshire, and in support of this petition states as follows:

1. In order to meet the reasonable requirements of service to the public, Eversource has previously constructed and currently operates and maintains an overhead electric line across the Upper Ammonoosuc River northerly of the Old Route 110 bridge in Dummer, New Hampshire. It is necessary for Eversource to relocate this 7,200-volt electric circuit, known as the 25W1 Line<sup>1</sup>, to another location across the Upper Ammonoosuc River. The existing 25W1 Line needs to be relocated due to reconstruction of the Old Route 110 bridge, which necessitates a shift of the 25W1 Line to the southern side of Route 110. The bridge and roadway improvements proposed are intended to replace aging infrastructure.
2. The relocation modification of the 25W1 Line over the Upper Ammonoosuc River in Dummer, is shown in the attached Exhibit 1 Plan and Profile Drawing, and has been designed and will be constructed in accordance with the 2012 National Electrical Safety Code (NESC). Exhibit 4 shows the USGS location of the proposed new crossing.
3. Wire and structure specifications:
  - a. 25W1 Line:
    - i. Wire: Single Phase Conductor 1/0 ACSR 6/1 with 1/0 ACSR 6/1 Neutral
    - ii. Structure Type: A3 on the west and A3 on the east, per Exhibit 2.
    - iii. Pole Structures: 43 feet, single pole wood on west (No. P104/3 PSNH 21/3) and 43 feet, single wood pole on the east (No. P 104/2 PSNH 21/2)
4. The location of the pole structures creates the following crossing span:

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<sup>1</sup> Due to oversight or the application of different public water or navigability criteria at the time of original construction, the existing 25W1 Line crossing was not previously licensed by the Commission. The modification of this crossing will be licensed under this petition.

- a. 25W1 Line: 160 feet
5. All conductors have been drawn in Exhibit 1 to show the maximum sag conditions in reference to the water.
6. Eversource will construct, maintain and operate the clearance of the wire crossing over the river at a height no less than is required by the 2012 National Electrical Safety Code (NESC, Table 232-1) which is 17 feet for open supply conductors (750 V to 22 kV to ground) and 14 feet for the neutral conductor to water areas not suitable for sail boating. The minimum height over the River is depicted on the attached Exhibit 1.
7. The 100-year flood level was established based upon FEMA flood zone maps for the crossing area (Zone A, effective date: February 20, 2013). This elevation is based on the national Geodetic Vertical Datum of 1929 (NAVD 1929). For the purposes of calculating clearance, the 100-year flood elevation was used, as it was readily available. This is higher than the 10-year flood elevation required by NESC and provides a conservative clearance requirement (See Exhibit 3).
8. It is not anticipated that abutters on either side of the River will be affected, as this is a relocation of an existing crossing for which the pole structures have previously been licensed in the public highway of Old Route 110. The new poles would be a relocation of the existing poles, relocated to the southern shoulder of Old Route 110. The locations are within the existing roadway right-of-way, see Exhibit 1, and either have been or will be re-licensed by with the applicable roadway authority.
9. Eversource submits that the license petitioned for herein may be exercised without substantially affecting the rights of the public in the public waters of the Upper Ammonoosuc River. Minimum safe line clearances above the River surfaces and affected shorelines will be maintained at all times. The use and enjoyment by the public of the River will not be diminished in any material respect as a result of the overhead line crossing.

Wherefore Eversource respectfully requests that the Commission:

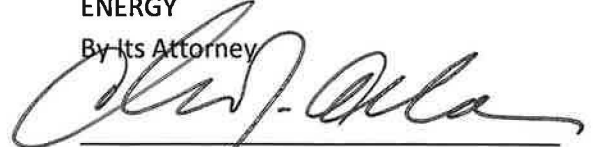
1. Find that the license petitioned for herein may be exercised without substantially affecting public rights in the public waters which are the subject of this Petition;
2. Grant the Company a license to maintain electric lines over and access the public waters as identified and described in this Petition; and
3. Issue an order Nisi and orders for its publication.

Dated at Manchester, New Hampshire this 16<sup>TH</sup> day of OCTOBER, 2017.

Respectfully submitted,

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

By Its Attorney

A handwritten signature in black ink, appearing to read "Chris Allwarden", written over a horizontal line.

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