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 PISCATAQUOG RIVER IN THE TOWN OF GOFFSTOWN, 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 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 the public waters of the Piscataquog River in Goffstown, 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 34.5 kV electric distribution line, designated as the Eversource 328 Line, over and across the Piscataquog River in the Town of Goffstown, New Hampshire.¹ This crossing location is bordered by utility structures which require replacement, as noted below. The existing 328 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 line to continue to function safely and reliably. This structure and replacement and repair project is part of a capital reliability project necessary for the 328 Line to continue to meet current as well as future projected electricity demands. The 328 Line is also being upgraded to allow more capacity to the Town of Goffstown from the Rimmon Substation due to an upcoming transformer retirement at the Glen Lake Substation. Additionally, underbuilt fiber optic wire is being added to the structures to allow for communication between the Rimmon Substation and the Glen Lake Substation.
- 2. The general location of the 328 Line crossing over the Piscataquog River in Goffstown is shown on Eversource Energy Location Plan attached as Exhibit 1. The rebuild of the 328 Line crossing has been designed and will be constructed in accordance with the National Electrical Safety Code (NESC), as shown on the Eversource Energy Plan and Profile Plan drawing attached as Exhibit 2.
- 3. Wire and structure specifications:
 - a. Piscataquog River (Exhibit #2):
 - i. Wire:

Neutral Wire: 0000127 AWA

2. Distribution Wire: Hendrix 477 kcmil AAC

¹ Due to either oversight or the application of different public water or navigability criteria at the time of original construction, the existing 328 Line crossing was not previously licensed by the Commission; however, the relocated crossing will be licensed under this petition.

- 3. Fiberoptic Cable: ADSS 24 Fiber OFS Type
- ii. Structure Types and Pole Heights: From east to west
 - 1. Str 42: DTR 10.305_MOD 1P Tap Steel Monopole, 80' OAL (70' AGH)
 - 2. Str 43: DTR 10.305_MOD Steel Monopole, 60' OAL (52' AGH)
- 4. The location of the structures creates the following crossing spans:
 - a. Piscataquog River: 412 feet (structure to structure)
- 5. All conductors have been drawn in Exhibit 2 to show the maximum sag conditions in reference to the water.
- 6. Eversource 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 Piscataquog River crossing requires 17.0 feet for 34.5kV 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 2).
- 7. According to the FEMA Flood Zone Panel 33011C0219D, the structures on both sides of the River fall with Zone AE and the regulated floodway, with a base flood elevation of 172 feet. Structure 42 will be set at an elevation of 171.86 feet and Structure 43 will be set at an elevation of 167.17 feet.
- 8. A New Hampshire Division of Environmental Services (NHDES) Shoreland Permit by Notification (SPN) application is required for construction activities in the vicinity of the Piscataquog River. The SPN application is being submitted to NHDES at or about the same time as this filing.
- 9. A NHDES Utility Maintenance Notification (UMN) is required for temporary impacts to nontidal wetlands associated with construction activities for the 328 Line project, including related to access to one of the crossing structures being replaced. A UMN application was submitted to NHDES and accepted as complete on January 18, 2018.
- 10. It is not anticipated that abutters on either side of the Piscataquog River crossing will be affected, as these are modifications of an existing overhead line. The shoreline properties in the location of the crossing are subject to existing Eversource easements with widths as shown on Exhibit 2.
- 11. 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 Piscataquog 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 crossing.

Wherefore Eversource respectfully requests that the Commission:

- 1. Find that the license petitioned for herein may be exercised without substantially affecting the public rights in 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 public waters which are the subject of this petition; and
- 3. Issue an Order Nisi and orders for its publication.

Dated at Manchester, New Hampshire this 10 Hampshire day of October, 2018.

Respectfully submitted,

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

ENERGY

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