THE STATE OF NEW HAMPSHIRE
BEFORE THE
DEPARTMENT OF ENERGY

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

DOCKET No. CR 2021-

PETITION OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY FOR LICENSE TO CONSTRUCT AND MAINTAIN ELECTRIC LINES OVER AND ACROSS STATE OWNED LAND AND PUBLIC WATERS IN NEW HAMPTON, BRISTOL, BRIDGEWATER, AND ASHALND, NEW HAMPSHIRE

Pursuant to RSA 371:17, Public Service Company of New Hampshire d/b/a Eversource Energy ("Eversource" or "the Company"), a public utility engaged in the transmission, distribution and sale of electricity in the State of New Hampshire, hereby petitions the Department of Energy ("Department"), for a license to construct and maintain electric lines over and across State owned land and public waters in New Hampton, Bristol, Bridgewater, and Ashland, New Hampshire. In support of this petition 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 E115 Line and E115 Tap, originally constructed in 1953 and 1964, respectively, over and across State owned land and public waters in New Hampton, Bristol, Bridgewater, and Ashland, New Hampshire. The subject crossings were not licensed when originally constructed, but two of the public water crossings, over the Pemigewasset River between new Strs. 3 and 4 , and over the Pemigewasset River between new Strs. 47 and 48 were licensed in Dockets DE 75-173 and DE 76-22, respectively (copies of those Dockets including Orders are included with this Petition filing), in conjunction with prior maintenance.

2. The proposed project for the E115 and E115 Tap encompasses a full line rebuild. All 14 structures at the State owned land crossing span will be replaced with weathering steel equivalents

having the design and specifications depicted and noted in the Structure Details of Exhibits 4 through 5, 8, and 10 through 13. The project also includes replacing all 12 structures at the six public waters crossing spans that are the subject of this petition with weathering steel equivalents having the design and specifications depicted and noted in the Structure Details of Exhibits 2, 3, 6, 7, 9, and 14. The replacement structures will be renumbered as detailed under the Structure Table enclosed herewith as Exhibit 15. The proposed project also encompasses reconductoring the three existing conductors with new specifications as detailed under the Cable Schedule on Exhibits 2 through 14 hereto. Additionally, both pole top mounted shield wires will be replaced with two OPGW communication cables having the specifications noted in the said Cable Schedules. All structure replacements will be located within 10 feet of the existing locations, with the exception of new Structures 3 and 119, which are being moved approximately 15 feet south, and 30 south, respectively, to avoid steep slopes for constructability and future maintenance. Changes in structure heights required to meet current safety and reliability clearance requirements for the replacement cables and new structure locations and also to address uplift considerations specific to the surrounding terrain are detailed under the enclosed Structure Table as Exhibit 15.

3. The public water crossing and State owned land crossing spans that are the subject of this petition are depicted on Exhibit 1 as a high-level perspective of the locations. Additional site location descriptions of the span location are as follows.

Exhibit 2– The E115 Line crosses the Pemigewasset River in the Towns of New Hampton and Bristol between existing Structures 122 and 123 (new structures 3 and 4), approximately 1,028 feet north of the Pemigewasset Substation, which is located off Old Bristol Road, which is located approximately 640 feet east from the intersection of Old Bristol Road and Public Service Road. The crossing extends north approximately 1,067 feet.

Exhibit 3– The E115 Line crosses the Pemigewasset River in the Towns of Bridgewater and Bristol between existing Structures 166 and 167 (new structures 47 and 48), approximately 375 feet east of where the E115 Line crosses River Road in Bridgewater, which is approximately 2,965 feet north from the intersection of Abel Road and River Road in Bridgewater. The crossing extends east approximately 284 feet.

Exhibit 4 to 5 – The E115 Line crosses two State-owned land parcels in New Hampton between existing Structures 168 to 171 (new structures 49 to 52), which starts along the eastern edge of State Route 132 where the E115 Line crosses State Route 132, which is approximately 4,600 feet south from the intersection of Colony Lane and State Route 132. The crossing extends approximately 465 feet east where it ends along at the western edge of Interstate 93.

Exhibit 6– The E115 Line crosses the Squam River in the Town of Ashland between existing Structures 211 and 212 (new structures 92 and 93), approximately 6,750 feet north of the where the E115 Line crosses NH State Route 132, where the line also crosses Interstate 93 approximately 1,500 feet north of where the line crosses NH State Route 132. The E115 Line crosses NH State Route 132 at the intersection of NH State Route 132 and Huckberry Road. The crossing extends north approximately 42 feet.

Exhibit 7– The E115 Line crosses the Pemigewasset River in the Towns of Ashland and Bridgewater between existing Structures 229 and 230 (new structures 111 and 112), approximately 7,175 feet north of where the E115 Line crosses the end of Collins Street, which is approximately 1,200 feet west from where Collins Street crosses under Interstate 93. The crossing extends north approximately 316 feet.

Exhibit 8 – The E115 Line crosses State-owned land parcel in Bridgewater between existing Structures 235 to 236 (new structure 117 to 118), which starts approximately 220 feet northeast from where the E115 Line crosses State Route 3 (aka Daniel Webster Highway), which is approximately 375 feet south from the intersection of John Jenness Road and State Route 3 in Bridgewater. The crossing extends approximately 73 feet northeast where it ends approximately 55 feet from where the E115 Line crosses Siding Road, which is approximately 260 feet southeast from the intersection of Siding Road and State Route 3.

Exhibit 9– The E115 Line crosses the Pemigewasset River in the Towns of Bridgewater and Ashland between existing Structures 237 and 238 (new structures 119 and 120), approximately 400 feet northeast from where the E115 Line crosses Siding Road in Bridgewater, which is approximately 260 feet southeast from the intersection of Siding Road and State Route 25. The crossing extends northeast approximately 269 feet.

Exhibit 10 to 13 – The E115 Line crosses State-owned land in Ashland between existing Structures 239.10 to 245 (new structure 130 to 137), which starts approximately 4,220 feet northeast from where the E115 Line crosses North Ashland Road, where the line also crosses Interstate 93 approximately 810 feet northeast from where the line crosses North Ashland Road. The E115 Line crosses North Ashland Road approximately 2,400 feet north from the intersection of North Ashland Road and NH State Route 3. The crossing extends approximately 3,038 feet north where it ends approximately 5,200 feet south from where the E115 Line crosses NH State Route 175 in Holderness, which is approximately 950 feet southeast from the intersection of NH State Route 175 and North Ashland Road.

Exhibit 14– The E115 Tap Line crosses the Squam River in the Town of Ashland between existing Structures 5 and 6 approximately 720 feet northeast from where the Line crosses the section of Collins Street that is the entrance to the Ashland Transfer Station, which is approximately 875 feet north from the intersection of the entrance to the Ashland Transfer Station and Collins Street. The crossing extends east approximately 47 feet, where it ends approximately 450 feet west from the Ashland Substation located off Collins Street, where the entrance to the Ashland Substation is approximately 450 feet northwest from intersection of NH State Route 132 and Collins Street.

4. Wire specifications and loading condition to establish maximum sag for the crossing span that is the subject of this petition are as indicated on the Structure Detail and Profile View of Exhibit 2 through 14.

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

I. Pemigewasset River: New Hampton and Bristol (Exhibit 2)

i. Renumbered Structures: 3 to 4

ii. Structure Span (ft): 1,446.6’

iii. Public Water Span (ft): 1,067.7’

II. Pemigewasset River: Bridgewater and New Hampton (Exhibit 3)

i. Renumbered Structures: Str. 47 to 48

ii. Structure Span (ft): 616.6’
iii. Public Water Span (ft): 284.8’

III. State Owned Land: New Hampton Map/Block R16/1 & R16/1A (Exhibit 4 & 5)
i. Renumbered Structures: Str. 47 to 52
ii. Structure Span (ft): 1,021.5’
iii. State Owned Land Span (ft): 465.0’

IV. Squam River: Ashland (Exhibit 6)
i. Renumbered Structures: Str. 92 to 93
ii. Structure Span (ft): 737.3’
iii. Public Water Span (ft): 42.8’

V. Pemigewasset River: Ashland and Bridgewater (Exhibit 7)
i. Renumbered Structures: Str. 111 to 112
ii. Structure Span (ft): 571.6’
iii. Public Water Span (ft): 316.1’

VI. State Owned Land: Bridgewater Map/Block 201/15 (Exhibit 8)
i. Renumbered Structures: Str. 117 to 118
ii. Structure Span (ft): 250.3
iii. State Owned Land Span (ft): 73.0’

VII. Pemigewasset River: Bridgewater and Ashland (Exhibit 9)
i. Renumbered Structures: Str. 1119 to 120
ii. Structure Span (ft): 715.9’
iii. Public Water Span (ft): 269.9’

VIII. State Owned Land: Ashland Map/Lot/Sub 7/1/11 (Exhibit 10 to 13)
i. Renumbered Structures: Str. 130 to 137

ii. Structure Span (ft): 3,513.2’

iii. State Owned Land Span (ft): 3,038.6’

IX. Squam River: Ashland: (Exhibit 14)

i. Renumbered Structures: Str. 5 to 6

ii. Structure Span (ft): 691.3’

iii. Public Water Span (ft): 47.4’

6. All conductors and wires have been drawn on Exhibits 2 through 14 to show the minimum clearance at maximum sag conditions in reference to the public waters and State owned land crossings.

7. Eversource will maintain and operate the clearances of the crossing at a height no less than what is required by the 2012 National Electrical Safety Code (NESC, Table 232-1), which is 30.1 for 115 kV wires over water areas suitable for sail boating including lakes, ponds, reservoirs, tidal waters, rivers, streams, and canals with an obstructed surface area of over 20 to 200 acres, 18.6’ for water areas not suitable for sailboating or where sail boating is prohibited, 20.1’ for 115 kV wires over other areas traversed by vehicles such as cultivated, grazing, forest, and orchard lands, industrial sites, commercial sites, etc., and 28.1’ for 115 kV wires over track rails of railroads. The surface elevation for purposes of calculating clearances was based on the data stated in Note 3 of the Exhibits depicting the six public water crossing spans and Note 2 of the Exhibits depicting the three State owned land crossing spans. The actual minimum height over public waters and State owned lands are depicted on the attached Exhibit 2 through 14 and summarized in the Table encompassing Exhibit 15 and exceeds the minimum requirement.

8. The line rebuild project on the E115 and E115 Tap will require a New Hampshire Department of Environmental Services (NHDES) Statutory Permit Notification (SPN) permit for temporary impacts to wetlands associated with the construction and installation of new structures, including those that are the subject of this petition in the Town of New Hampton, Bristol, Bridgewater, and Ashland. It is not known at this time if other environmental permits, for example

a Shoreland Permit by Notification or Alteration of Terrain Permit, will be required. However all environmental permits necessary will be obtained prior to construction.

9. The U.S. Army Corps of Engineers (ACOE) does not regulate the Pemigewasset River and Squam River as navigable waters. As a result, a crossing permit from the ACOE is not required.

10. It was not anticipated that abutters on either side of the public waters or State owned lands that are the subject of this petition would be affected by the proposed scope of this project as the E115 and E115 Tap is an existing line and the project will be accomplished within existing ROW easements.

11. Eversource submits that the license petitioned for herein may be exercised without substantially affecting the rights of the public in the State owned lands and public waters that are the subject of this petition. Minimum safe clearances above the State owned land and public waters will be maintained at all times. Spotters are routinely used to make sure river crossing spans are clear of recreational users prior to performing wire replacement work. As such, the use and enjoyment by the public of the State owned land will not be diminished in any material respect as a result of the proposed structure replacements and wire installation.

WHEREFORE, Eversource respectfully requests that the Department:

1. Find that the license petitioned for herein may be exercised without substantially affecting the public rights in the State owned lands and 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 water and State owned lands as identified and described in this petition;

Dated at Manchester, New Hampshire this 21st day of December, 2021.

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

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