

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

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

**DOCKET No. CR 21-**

**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  
IN GOFFSTOWN AND HOOKSETT, AND PUBLIC WATERS IN GOFFSTOWN,  
HOOKSETT AND MANCHESTER, 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 petitions the Department of Energy (“Department”), for a license to construct and maintain electric lines over and across State owned in Goffstown and Hooksett, and public water spans located in Goffstown, Hooksett and Manchester, 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 O161 Line, over and across State owned land in Goffstown and Hooksett, as well as over public water spans in Goffstown, Hooksett and Manchester, New Hampshire. The O161 was last licensed in 2020 in Public Utilities Commission Docket 20-073 for a structure replacement maintenance project. The upcoming project will entail replacement of the existing pole top OPGW communications wire installed around 1992 between structures 1 through 22, and replacement of the existing pole top shield wire between structures 22 through 74 with a new OPGW communications cable, effectively replacing the pole top OPGW and shieldwire with a new OPGW across the entire O161 circuit. This petition also seeks to license after-the-fact the 2020 replacement of Structure 38 and 39, which supports a span over the Black Brook, which original wood structures were replaced with steel monopoles as part of the

2020 structure replacement project but not included in Docket 20-073 owing to an apparent oversight.

2. The replacement steel structures 38 and 39 were installed in 2017 within 10' of the original wood structure location and have the specifications and configuration depicted on Exhibit 4. The new OPGW cable has the specifications noted in the cable schedules on Exhibits 2 through 5. The O161's existing three conductors, whose specifications are identified on the cable schedules on Exhibits 2 through 5 will remain unchanged.

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

Exhibit 2 – The O161 Line crosses the Merrimack River (504.6-ft wide) in the Town of Hooksett between Structures 6 and 7, approximately 1,370 ft east of the intersection of Gosselin Ave and NH Route 3A.

Exhibit 3 – the O161 Line crosses a State-owned land parcel that abuts the west side of Interstate 293 at Exit 10 in the Town of Hooksett between Structures 20 and 21. The O161 Line crosses state land (Map 37, Lot 1) approximately 1,906-ft west of Interstate 93. The Line continues 20.5-ft across State land where it ends at the abutting property boundary of Map 37, Lot 52 which is approximately 1,440-ft east of the intersection of the O161 ROW and Hackett Hill Road in Hooksett.

Exhibit 4 – The O161 Line crosses Black Brook (23.3-ft wide) in the Town of Goffstown between Structures 38 and 39, approximately 454-ft east of the intersection of the O161 ROW and E. Dunbarton Road in Goffstown.

Exhibit 5 – The O161 Line crosses a State-owned land parcel beginning west off Elm Street in the Town of Goffstown between Structures 72 and 73 (Tax Map 5, Lot 18A) and the O161 Line crosses the remainder of the State-owned land parcel (Tax Map 5, lot 18A) and the Piscataquog River between Structures 73 and 74 in the Town of Goffstown. The State-owned land parcel crossing begins just west of Elm Street and extends a total of 805.2-ft. The Piscataquog River Crossing begins 23.8-ft west from the edge of the State Land Boundary. The Piscataquog River Crossing is 99.6-ft wide and ends approximately 312-ft east of Greggs Substation.

4. Wire specifications and loading condition to establish maximum sag for the crossing spans that are the subject of this petition are as indicated on Profile View and Cable Schedule of Exhibits 2 through 5.

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

(a) Public Water Body Crossing: Hooksett - Merrimack River (Exhibit 2)

- i. Structures: Str. 6 to 7
- ii. Structure Span (ft): 920.6
- iii. Water Body Crossing Span (ft): 504.6

(b) State Owned Land: Hooksett Map/Lot 37/1 (Exhibit 3)

- i. Structures: Str. 20 to 21
- ii. Structure Span (ft): 396.6
- iii. State Owned Land Span (ft): 20.5

(c) Public Water Body Crossing: Manchester/Goffstown – Black Brook (Exhibit 4)

- i. Structures: Str. 38 to 39
- ii. Structure Span (ft): 683.6
- iii. Water Body Crossing Span (ft): 23.3

(d) State Owned Land: Goffstown Map/Lot 5/18A(Exhibit 5)

- i. Structures: Str. 72 to 74
- ii. Structure Span (ft): 1,328.3
- iii. State Owned Land Span (ft): 805.2

(e) Public Water Body Crossing: Goffstown – Piscataquog River (Exhibit 5)

- ii. Structures: Str. 73 to 74
- iii. Structure Span (ft): 964.0
- iv. Water Body Crossing Span (ft): 99.6

6. Conductors have been drawn on Exhibits 2 through 5 to show the minimum clearance at maximum sag conditions in reference to the State owned land and public waters crossings.

7. 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:

(i) 18.6' for 115 kV wires over and other areas traversed by vehicles such as cultivated, grazing, forest and orchard lands, industrial sites, commercial sites, etc.; (ii) 20.1' for 115 kV wires over roads, streets and other areas subject to truck traffic; (iii) 30.1' for 115 kV wires over waters suitable for sailboating with surface area over 20 to 200 acres; and (iv) 18.6' for 115 kV wires over

waters not suitable for sailboating, or where sailboating is prohibited . The actual minimum height over the State owned lands and Public Waters is depicted on the attached Exhibits 2 through 5 and exceeds the applicable minimum requirements.

8. A NHDES Utility Maintenance Notification (DES 2017-00226) was obtained for temporary wetland impacts associated with the prior replacement of Structures 38 and 39. A Statutory Permit by Notification (SPN) will be obtained prior to commencement of replacement of the OPGW to address temporary wetland impacts in Hooksett, Manchester and Goffstown.

9. 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. Spotters are routinely used to make sure river crossing spans are clear of recreational users prior to performing wire replacement work.

10. Eversource submits that the license petitioned for herein may be exercised without substantially affecting the use and enjoyment of the public in the State owned land and Public Waters because safe clearances to ground will be maintained at all times and appropriate safety precautions will be utilized.

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 land 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 State owned lands and across Public Waters, as described in this petition;

Dated at Manchester, New Hampshire this 20th day of October, 2021.

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



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