

**THE STATE OF NEW HAMPSHIRE  
BEFORE THE  
PUBLIC UTILITIES COMMISSION**

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

DOCKET NO. DE 19-\_\_\_\_\_

**PETITION OF PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
D/B/A EVERSOURCE ENERGY FOR LICENSE TO CONSTRUCT  
AND MAINTAIN ELECTRIC LINES OVER AND ACROSS LANDS  
OWNED BY THE STATE OF NEW HAMPSHIRE IN THE TOWNS OF  
WINCHESTER AND SWANZEY, 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 (“State”), hereby petitions the Public Utilities Commission (“Commission”) for license(s) to construct and maintain electric lines over and across lands owned by the State of New Hampshire in the Towns of Winchester and Swanzey, New Hampshire. In support of this petition Eversource 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 115Kv electrical transmission line, designated as the Eversource A152 Line, over and across four parcels of land owned by the State of New Hampshire, as shown in Exhibits 2 through 6. These State land crossings have not been previously licensed by the Commission, due either to oversight, or because the lands involved were in private ownership at the time of the original construction of the existing lines and no crossing license was required. The replacement of these crossings in connection with the A152 project will be fully licensed under the petition.
2. Eversource is commencing a project to modify or rebuild a number of the structures on its existing A152 Line, which will impact the crossing locations which are the subject of this Petition. This structure replacement and repair project is part of a reliability project for the A152 line to continue to meet current, as well as future, projected

electricity demands. No conductor, shield wire or neutral wire will be replaced as part of this project; instead, existing conductors and wires will be transferred to the new structures (Str. 75, 76, 77, 78, 79, 82, 83, 152, 153, 154, 175, 176), which will be a steel structure replacement of the wood structures.

3. The attached Exhibits 1 and 1A– dated June 2019, show the general location of the A152 Line crossings over the State’s land parcels to be rebuilt as part of Eversource’s project. The design and proposed construction of the replacement crossings for the A152 Line over the State’s land parcels will be in accordance with the National Electrical Safety Code (NESC), as shown on the Eversource Plan and Profile Drawing for the State land crossings, attached as Exhibits 2 through Exhibit 6.

4. Wire and structure specifications for the State land crossings are as follows:

**A. Exhibit 2**

I. Wire:

- i. Shield Wire: 7#8 Alumoweld
- ii. Transmission Wire: 795 kcmil ACSR 36/1
- iii. ADSS Wire: ADSS (0.638” diameter)

II. Structure Types and Pole Heights: From east to west

- i. Str. 75: TA 2-pole, 2-65’ Overall length (OAL) (56.5’ Aboveground height [AGH]), 1-50’ OAL (43’ AGH)
- ii. Str. 76: SRAX 2-Pole, 2-65’ OAL (56.5’ AGH)

**B. Exhibit 3**

I. Wire:

- i. Shield Wire: 7#8 Alumoweld
- ii. Transmission Wire: 795 kcmil ACSR 36/1
- iii. ADSS Wire: ADSS (0.638” diameter)

II. Structure Types and Pole Heights: From east to west

- i. Str. 77: SDA-2 3-Pole, 3-65’ OAL (56.5’ AGH)
- ii. Str. 78: SRAX 2-Pole, 1-70’ OAL (61’ AGH), 1-75’ OAL (65.5’ AGH)
- iii. Str. 79: SRAX 2-Pole, 2-80’ OAL (70’ AGH)

**C. Exhibit 4**

I. Wire:

- i. Shield Wire: 7#8 Alumoweld

- ii. Transmission Wire: 795 kcmil ACSR 36/1
- iii. ADSS Wire: ADSS (0.638" diameter)
- II. Structure Types and Pole Heights: From east to west
  - i. Str. 82: SRAX 2-Pole, 1-70' OAL (61' AGH), 1-75' OAL (65.5' AGH)
  - ii. Str. 83: SRC-2 3-Pole, 3-70' OAL (61' AGH)

**D. Exhibit 5**

- I. Wire:
  - i. Shield Wire: 7#8 Alumoweld
  - ii. Transmission Wire: 795 kcmil ACSR 36/1
  - iii. ADSS Wire: ADSS (0.638" diameter)
- II. Structure Types and Pole Heights: From west to east
  - i. Str. 152: SDA-2 MOD 2-Pole, 2-55' OAL (48' AGH)
  - ii. Str. 153: SRAX 2-Pole, 2-60' OAL (51' AGH)
  - iii. Str. 154: SDA-2 A 2-Pole, 55' & 50' OAL (45' AGH)

**E. Exhibit 6**

- I. Wire:
  - i. Shield Wire: 7#8 Alumoweld
  - ii. Transmission Wire: 795 kcmil ACSR 36/1
  - iii. ADSS Wire: ADSS (0.638" diameter)
- II. Structure Types and Pole Heights: From west to east
  - i. Str. 175: SDA-2 MOD 3-Pole, 3-60' OAL (52' AGH)
  - ii. Str. 176: SDA-2 3-Pole, 3-65' OAL (56.5' AGH)

5. The location of the structures creates the following crossing spans:

- A. Exhibit 2
  - Structures: 75-76
  - Structure Span (ft): 171.63
  - Public Land Span (ft): 20
- B. Exhibit 3
  - Structures: 77-79
  - Structure Span (ft): 604.37
  - Public Land Span (ft): 838.15
- C. Exhibit 4
  - Structures: 82-83
  - Structure Span (ft): 320.70
  - Public Land Span (ft): 420.85
- D. Exhibit 5

- Structures: 152-154
- Structure Span (ft): 653.88
- Public Land Span (ft): 347.44

E. Exhibit 5

- Structures: 175-176
- Structure Span (ft): 477.40
- Public Land Span (ft): 100

6. All conductors have been drawn in Exhibit 2 through Exhibit 6 to show the maximum sag conditions in reference to the State lands.
7. Eversource will maintain and operate the clearances of the crossings over the State land locations at a height no less than what is required by the 2017 National Electrical Safety Code (NESC, Table 232-1) which is 20.6 feet to ground for 115kV open supply conductors over any vehicle/horse accessible areas. The actual minimum height over the State lands are depicted on the attached Exhibit 2 through Exhibit 6.
8. A NHDES Utility Maintenance Notification is required for construction access and work activities which involve the temporary impact of nontidal wetlands, nontidal surface waters, and banks adjacent to nontidal surface waters under one acre and is applicable to the State land crossings. A permit application was submitted on December 27, 2018 and approved by NHDES in January 2019 (see NHDES File #2019-00133 and NHDES File #2019-00137).
9. It is not anticipated that abutters on either side of the State land crossings will be affected by this petition, as the A152 is an existing line, and the crossing structures are being replaced and rebuilt within Eversource's existing utility easements. The State's land parcels were acquired by the State subject to the Eversource right of way easements, and no new or additional real property rights are required to replace the structures within the State's parcels.
10. Eversource submits that the license petitioned for herein may be exercised without substantially affecting the rights of the public in the State's land parcels. Minimum safe line clearances above the land surfaces will be maintained at all times. The use and


enjoyment of the public of the lands will not be diminished in any material respect as a result of the replacement of the overhead line crossings.

**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 state lands which are the subject of this petition;
2. Grant Eversource a license to construct and maintain electric lines over and across the State's land parcels as identified and described in this Petition; and
3. Issue an order *Nisi* and an order for its publication.

Respectfully submitted 20<sup>th</sup> day of September, 2019.

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

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