

**The State of New Hampshire
Before the
Public Utilities Commission
Docket No.**

PETITION OF THE 186 COMMUNICATIONS FOR LICENSE TO CONSTRUCT AND MAINTIAN FIBER OPTIC CABLES OVER AND ACROSS THE FOLLOWING NEW HAMPSHIRE WATERS:

- **AMMONOOSUC RIVER IN LITTLETON NH BETWEEN UTILITY POLE 36/7 AND POLE 36/6 (Ref. TID-NH17)**
- **AMMONOOSUC RIVER IN LITTLETON NH BETWEEN UTILITY POLE 900A/1 AND POLE 900A/0.5 (Ref. TID-NH16)**

TO THE PUBLIC UTILITIES COMMISSION:

186 Communications, LLC, an authorized Excepted Local Exchange Carrier (“ELEC”) in the State of New Hampshire, hereby petitions the Public Utilities Commission (“Commission”), pursuant to the RSA 371:17, for a license to construct and maintain fiber optic cables over and across the public waters of the aforementioned river in the town of Littleton.

186 Communications, LLC submits this petition for review by the New Hampshire Public Utilities Commission for new fiber optic cables being installed over existing river crossings for the purpose to provide a new feed to the Direct TV facility located at 1089 Mt. Eustis Rd. in Littleton NH. The fiber provides a necessary back up to their existing services that currently feed this location. Existing Direct TV providers experienced issues last year during the Thanksgiving storm that caused service interruptions to their customers. This new fiber ring will provide a back up to the current services already installed at the facility and allow Direct TV to operate, with limited interruption.

In support of its petition 186 Communications states as follows:

1. Each the applicable segments of the river crossings are listed as public lakes and ponds, public rivers and streams and tidal bodies in the NH DES “*Official List of Public Waters*” dated January 17, 2014.
2. A separate engineering package is provided for each of the two crossings with location maps detailing where and how the new line will cross each body of water.
3. The design and proposed construction of each crossing is shown on the attached profile drawings. Based on the research and field inspection of the consulting engineer, it has been determined that the crossings are classified as waterways not suitable for sail-boating per NESCS, Table 232-1.

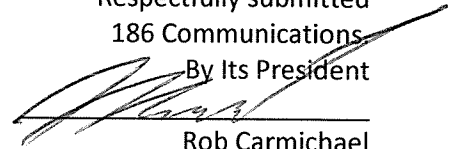
4. Each proposed crossing will be placed between two existing utility poles in the existing public right-of-way. The attached diagrams provide exact distances between poles and the height of each pole. Vertical distances are representative of attachment heights after the completion of all moves deemed necessary by the pole owner's during their make-ready assessments.
5. The 186 Communication attachment will be made up of two materials; strand (nominal diameter ¼ in. 7-strand steel EHS) and one non-self supporting fiber optic cable. A 288 count Pureband (ZWP) single-mode fiber optic cable will be placed across each river. Sag and tension calculations were done per NESC articles 232.A1 and 251 and the results are included in the attachments. In all cases the calculations for Article 251 using the heavy load conditions (0° F, pounds 4.0 psf wind loading and ½" radial ice) were found to be the governing condition for both sag and tension. The maximum tension under heavy load conditions was shown not to exceed the 60% usable strand load of 3990 lbs.
6. Vertical clearances are calculated from the FEMA 10 year flood profile. The location of data referenced for the drawing is provided in the attachments. For most crossings a conservative flood elevation was calculated by adding the delta between the river bed and the 10 year flood elevation to the surveyed water level.
7. There are no NHDES or NHDOT permits necessary for the construction of each crossing.
8. The proposed crossings have been designed and will be constructed, maintained and operated by 186 Communications, its affiliates and contractors, in accordance with the NESC.
9. 186 Communications submits that the license petition for herein may be exercised without affecting the rights of the public in the public waters of each river. Minimum safe line clearances above the water surface and affected shorelines will be maintained at all times. The use and enjoyment by the public of each waterway will not be diminished in any material respect as a result of the overhead line crossing.

WHEREFORE, 186 COMMUNICATIONS respectfully requests that the Commission:

- A. Find that the license petitioned for herein may be exercised without affecting the public rights in the public waters which are the subject of this petition.
- B. Grant 186 Communications. a license to construct and maintain fiber optic cables over and across the public waters of each river as specified in this petition; and
- C. Issue an Order Nisi and orders for its publication.

Dated at Nashua the 10th day of September, 2015.

Respectfully submitted
186 Communications
By Its President



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