

**STATE OF VERMONT
PUBLIC UTILITY COMMISSION**

Case No. 25-_____-PET

De Minimis Application of Bell Atlantic Mobile Systems,)
LLC d/b/a Verizon Wireless, for a Certificate of Public Good,)
pursuant to 30 V.S.A. § 248a, authorizing the modification)
of a telecommunications equipment on an existing facility)
in Sheldon, Vermont)

**PREFILED DIRECT TESTIMONY OF PATRICK BARRY, P.E.
ON BEHALF OF BELL ATLANTIC MOBILE SYSTEMS, LLC
d/b/a VERIZON WIRELESS**

November 25, 2025

Summary:

Mr. Barry's testimony will describe the Project and address the Project's conformance with de minimis requirements.

Q1. Please state your name, employer and current position.

A1. My name is Patrick Barry. I am a Professional Engineer and Director of Specialty Engineering at American Tower Corporation (“American Tower”). American Tower is based in Cary North Carolina, and has been provided services for telecommunications facilities since 1995.

Q2. Please briefly state your professional background.

A2. I graduated Clarkson University with a Bachelor of Science in Civil Engineering and graduated from Tufts University with a Master of Science in Engineering Management. I have worked at American Tower since 2014. I have been designing telecommunications facilities continuously since 1997 and practicing engineering since 1993. I obtained my Professional Engineering License in Vermont on May 10, 2012. During that time, I have provided expert testimony and reports regarding tower siting and site design before numerous bodies administering local zoning bylaws, Act 250 and 30 V.S.A. § 248a. I have experience in many facets of permitting and design of wireless telecommunications facilities, including evaluation of aesthetic and land use impacts.

Q3. Have you ever testified before the Public Service Board or Public Utility Commission?

A3. Yes, I have submitted pre-filed testimony in Case No. 25-1317-PET (Pownal Center), 25-2285-PET (Norwich University), among others.

Q4. Please identify the location of the Project that is the subject to this § 248a filing.

A4. Verizon proposes to modify an existing wireless telecommunication facility located approximately 140.01’ above ground level (“AGL”) monopole tower (“Tower”) located at 567 E. Sheldon Road in the Town of Sheldon. Verizon refers to the Project as “Sheldon VT-A”. The coordinates of the Project are latitude 44.89549 North and longitude 72.925042 West. The location of the Project is shown on Exhibit PB-1 Permit Plans. The property owner has given Verizon permission to proceed with this application.

On December 11, 2018, Land Use Permit #6F0604-1A issued to Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless authorized the installation of Verizon's equipment on the existing telecommunications facility located at this site. This project consists of modifications to the equipment installed on the Tower pursuant to the aforementioned permit.

Q5. Please describe, in detail, the design of the proposed Project.

A5. Verizon currently has six (6) panel antennas, three (3) remote radio heads ("RRH"), and one (1) OVP distribution box installed on the Tower.

Verizon now proposes to add the following: three (3) antennas, which each measure 3.17 sq., three (3) diplexers, which each measure 0.46 sq. ft., and three (3) RRHs, which each measure 1.56 sq. ft. See Permit Plans at Sheet C-202 and C-401. The diplexers and RRHs will be mounted behind the antennas, and hence are considered to have no visible facial surface area. The Antennas will be mounted at a centerline of 110' AGL, the same as the existing equipment. The topmost height of the proposed Antennas will extend to approximately 111.17' AGL, which is below 140.01' AGL the top of the existing tower.

The aggregate visible surface area of the existing equipment on the Tower is 41.40 square feet. Following the proposed modification, the aggregate visible facial surface area will be 50.91 square feet. Full and accurate specifications of the proposed Antennas, RRHs, and Diplexers are detailed in Exhibit MM-1.¹

A Structural Analysis (See Exhibit PB-2) conducted by American Tower Corporation, dated October 10, 2025 and Post-Modification Mount Analysis conducted by Tower

¹ From time to time, equipment manufacturers may slightly alter their products or Verizon Wireless may purchase from different suppliers. Therefore, there is a possibility that the actual antennas may differ slightly from what is described in the attached specifications.

Engineering Solutions, LLC dated September 29, 2025 (See Exhibit PB-1, Sheets R-601 to R-605), concluded that the Tower and antenna mounts will have sufficient capacity to support the proposed modifications, following the mount modifications outlined in Exhibit PB-2 and PB-1 at Sheets C-401, R-601 to R-605).

The existing hybrid co-axial cable will serve the proposed equipment.

Verizon will gain access to the Tower using the existing access drive from East Sheldon Road.

Existing on-site utilities will provide service to the site.

No site clearing is necessary and there no new impervious surface area will be created.

There will be no changes to: (1) the property boundaries and setbacks, (2) utilities, (3) wetlands, (4) drainage or erosion control, (5) screening, landscaping, ground cover, fencing, exterior lighting and signage, or (6) access to the Tower and Compound.

Q6. Will the installation increase the height or width of the support structure?

A6. No. Excluding equipment, antennas and ancillary improvements, there will be no change to the height or width of the support structure.

Q7. Will the addition of the antennas and improvements extend vertically above the height of the support structure to which they are attached by more than ten feet?

A7. No. The tops of the antennas will not extend above the top of the Tower is 140.01' AGL. Therefore, no portion of any antenna will extend vertically more than 10' above the portion of the Tower to which it will be attached. *See Exhibit PB-1.*

Q8. Will the addition of the antennas and improvements extend horizontally from the support structure or the facility by more than ten feet (10')?

A8. No. The Antennas will extend less than 10' horizontally from the Tower. *See Exhibit PB-*

1. 1.

Q9. Will the addition of the antennas and improvements on the support structure, excluding cabling, increase the aggregate visible surface area of the faces of the antennas on the support structure by more than 75 square feet?

A9. No. The aggregate visible surface area of the faces of the Antennas and improvements following the modification will be 50.91 square feet.

Q10. Will there be any increase in the impervious surface area at this location?

A10. No, this project will result in no additional impervious surface.

Q11. Please identify all existing permits relating to the facility and any conditions contained in those permits that could impact the proposed improvements.

A11. As referenced above, on December 11, 2018, Land Use Permit #6F0604-1A issued to Bell Atlantic Mobile Systems of Allentown, Inc. d/b/a Verizon Wireless authorized the installation of Verizon's equipment on the existing telecommunications facility located at this site. There are no conditions contained therein which would impact the proposed improvements.

Q12. Does this conclude your Prefiled Direct Testimony?

A12. Yes.

Exhibits to Prefiled Testimony of Patrick Barry, P.E.

Exhibit PB-1	Permit Plans
Exhibit PB-2	Structural Analysis