

PROJECT NARRATIVE

T-Mobile Northeast, LLC ("T-Mobile") is proposing to add telecommunications antennas and equipment to an existing farm silo at 1298 Machia Road, Sheldon, VT. The height of the silo is approximately 75 feet above ground level ("AGL"). Currently, T-Mobile has no antennas or other equipment at that silo location. T-Mobile intends to make the following changes at the facility (collectively referred to below as the "Project"), as detailed on the Site Plans submitted contemporaneously with this affidavit:

- (a) Install six (6) new antennas. Three (3) of the new antennas will measure approximately 75.8" x 11.3", having a total facial surface area of approximately 17.84 square feet. Three (3) of the new antennas will measure approximately 95.7" x 19.7", having a total facial surface area of approximately 39.28 square feet. See Sheet A-7 on the submitted Site Plans, "Project Information and Dimensions."
- (b) Install six (6) reverse radio heads ("RRHs"). Three (3) of the new RRHs will measure approximately 21.8" x 15.7", having a total facial surface area of approximately 7.13 square feet. Three (3) of the new RRHs will measure approximately 19.6" x 15.7" having a total facial surface area of approximately 6.41 square feet. See Sheet A-7.
- (c) The centerline of the new antennas will be approximately 52' above ground level ("AGL"), with the centerline of the new RRUs a few feet below that. See Sheet A-3.
- (d) The existing facial surface area of the existing antennas and equipment is 0.00 sq. ft. See Sheet A-7. The proposed facial surface area of the new antennas and equipment is

approximately 70.66 sq. ft, and therefore the change to the surface area of the faces of the equipment on the support structure is approximately 70.66 sq. ft. See Sheet A-7.

(e) As shown on Sheet A-3 of the Site Plans, no new antennas or equipment will extend vertically above the existing top of the silo. The maximum distance that the new antennas or RRHs extend horizontally from the existing silo is two feet two inches (2'2"), which is an increase of two feet two inches (2'2"). See Sheet A-7 of the Site Plans.

(f) The size and shape of the silo is not changing. There will be a new 10' x 20' concrete pad at the base of the silo to hold T-Mobile's base equipment. See Sheet A-2 of the Site Plans. T-Mobile will install two (2) equipment cabinets on the pad. (Please note, the site plans show the possible future location of two (2) additional equipment cabinets on the pad, in order to show that there is room to add cabinets in the future, but they are not being installed at this time and any future installation will be duly applied for; these future cabinets are shown on Sheet A-1 with the designation (F), and in lighter gray. There will also be an H-frame on the pad holding additional equipment boxes. There will also be a generator on the pad as well. There will be a weather canopy measuring 12'x 10' over part of the pad. There will be a short cable tray leading from the pad to the silo. The only new impervious surface as a result of the project is 200 sq ft as a result of the concrete pad. See Sheet A-7 of the Site Plans.

(g) Install ancillary improvements and appurtenances consisting of conduits and hardware necessary for the operation of the Facility.

Radio frequency ("RF") plots showing the lack of current RF coverage for T-Mobile in the area and showing the anticipated RF coverage if the site is approved are submitted with this narrative.

Pursuant to 248a(e)(3), an applicant is required to provide a written assessment of the co-location requirements of subdivision (c)(3) of the statute, as those requirements pertain to the proposed telecommunications facility. In turn, the provisions of subsection (c)(3), require that if the proposed facility relates to the provision of wireless service, the applicant must show that the proposed facility reasonably cannot be co-located on or at an existing telecommunications facility, or such co-location would cause an undue adverse effect on aesthetics.

In this case, T-Mobile is not proposing a new facility, but is seeking to add antennas to an existing silo, in other words, T-Mobile is co-locating on an existing structure. The purpose of a co-location requirement is to avoid building new towers where a carrier can install its antennas on an existing tower or other structure. Here, T-Mobile meets that purpose as it is proposing to co-locate on an existing silo.