

November 10, 2016

VIA EMAIL AND HAND DELIVERY

Ms. Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: T-Mobile Northeast LLC –CTNH584
Tower Share Application
33 Keegan Road, Plymouth, CT 06782
LAT: 41-39-42.334 N
LNG: -73-02-44.321 W

Dear Ms. Bachman:

This letter and attachments are submitted on behalf of T-Mobile Northeast LLC (“T-Mobile”). T-Mobile plans to install antennas and related equipment at the tower located at 33 Keegan Road, Plymouth, CT.

T-Mobile will install nine (9) 700/1900/2100 MHz antennas at the 130’ level of the existing 140’ monopole tower. Six (6) 1 5/8 “ Coax cables and one (2) hybrid cable will also be installed on the face of the tower. T-Mobile’s equipment and utility cabinets will be placed on a 10’ x 20’ concrete pad inside the existing fenced compound. Included are plans prepared by Centek Engineering dated September 28th 2016, depicting the planned changes and attached as **Exhibit A**. Also included is a structural analysis prepared by Centek Engineering dated September 28th 2016, confirming that the existing tower is structurally capable of supporting T-Mobile’s equipment. The structural analysis is attached as **Exhibit B**.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies 16-50aa, of T-Mobile’s intent to share a telecommunications facility pursuant to R.C.S.A. 16-50j-88. In accordance with R.C.S.A., a copy of this letter is being sent to Mayor David V. Merchant, Town of Plymouth and to the underlying land owner Steven A Westfall. Also, please see the attached letter from t Verizon Wireless authorizing the proposed shared use of the facility attached as **Exhibit C**.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. 16-50j-89.

1. The proposed equipment will not result in an increase in the height of the existing structure. The top of the lattice tower is approximately 140’ AGL; T-Mobile’s proposed antennas will be located at a centerline height of 130’ AGL.

2. The proposed modifications will not require the extension of the site boundary as depicted on the attached site plan. T-Mobile's equipment pad will be located within the existing fenced compound.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria. The incremental effect of the proposed changes will be negligible.
4. The operation of the proposed antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. As indicated in the attached power density calculations, T-Mobile's operations at the site will result in a power density of 3.09%; the combined site operations will result in a total power density of 3.09% as evidenced by the power density calculations attached as **Exhibit D**.
5. The proposed equipment will not cause a change or alteration in the physical or environmental characteristics of the site.

Connecticut General Statutes 16-50aa indicates that the Council must approve the shared use of a telecommunications facility provided it finds the shared use is technically, legally, environmentally and economically feasible and meets the public safety concerns. As demonstrated in this letter, T-Mobile respectfully submits that the shared use of this facility satisfies these criteria:

- A. Technical Feasibility. The existing lattice tower has been deemed to be structural capable of supporting T-Mobile's proposed loading. The structural analysis is included as **Exhibit B**.
- B. Legal Feasibility. As referenced above, C.G.S. 16-50aa has been authorized to issue orders approving the shared use of an existing tower such as this lattice tower in Enfield. Under the authority granted to the Council, an order of the Council approving the requested shared use would permit T-Mobile to obtain a building permit for the proposed installation. Further, a letter of authorization from Verizon Wireless is included as **Exhibit C** authorizing T-Mobile to file this application for shared use.
- C. Environmental Feasibility. The proposed shared use of this facility would have a minimal environmental effect. The installation of T-Mobile's equipment at 130' AGL on the existing 140' lattice tower would have an insignificant visual impact on the area around the tower. T-Mobile's ground equipment will be installed within the existing fenced compound. Therefore, T-Mobile's shared use would not cause any significant alteration in the physical or environmental characteristics of the existing site. Additionally, as evidenced by **Exhibit D**, the proposed antennas will not increase radio frequency emissions to a level at or above the Federal Communications Commission safety standard.
- D. Economic Feasibility. T-Mobile will be entering into an agreement with the Town of Enfield under mutually agreeable terms.
- E. Public Safety Concerns. As discussed above, the lattice tower is structurally

capable of supporting T-Mobile's proposed loading. T-Mobile is not aware of any public safety concerns relative to the proposed sharing of the existing monopole tower. T-Mobile's intent to provide new and improved wireless service through the shared use of this facility is expected to enhance the safety and welfare of residents and individuals traveling through the Town of Plymouth.

Respectfully submitted,

By: *Matthew Bandle*

Matthew Bandle, Agent for T-Mobile

Site Acquisition Project Manager

508-642-8801

MBandle@VerticalDevelopmentllc.com

Attachments

cc: Mayor David V. Merchant, Town of Plymouth and Verizon Wireless.
cc: Steven A Westall 41 Keegan Road Plymouth CT 060782 (Landowner)