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June 15, 2016

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

T-Mobile Northeast LLC – CNH371A  
Tower Share Application  
6 Mountain Road, Washington, CT 06777  
Latitude- 41.66888000  
Longitude- -73.36527000

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 American Tower site located at 6 Mountain Road in Washington, CT. Please note, T-Mobile was previously approved for a tower-sharing request at this facility, in a Connecticut Siting Council decision dated March 17, 2011.

T-Mobile will install six (6) 700/1900 MHz antennas and six (6) RRHs at the 136’ level of the existing 171’ monopole. One (1) hybrid cable will also be installed inside the existing monopole. T-Mobile’s equipment cabinets will be placed on a 10’ X 20’ concrete pad within the existing fenced equipment compound. Included are plans prepared by Hudson Design Group dated June 1, 2016, depicting the planned changes and attached as **Exhibit A**. Also included is a structural analysis prepared by A.T. Engineering Service, PLLC, dated May 17, 2016, confirming that the existing tower is structurally capable of supporting T-Mobile’s equipment and attached as **Exhibit B**. Please note, this analysis depicts certain T-Mobile equipment as “to be removed”, which is due to T-Mobile having an existing lease in place with the owner, American Tower, and the previously-leased equipment is being depicted as being removed within this analysis. There is no T-Mobile equipment currently on this tower.

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 Mark E. Lyon, First Selectman of the Town of Washington. American Tower Corporation, the tower owner, and Ray & Carol Underwood, the underlying property owners. Please see the attached letter from American Tower authorizing the proposed shared use of the facility attached as **Exhibit C**.

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

1. The proposed modifications will not result in an increase in the height of the existing structure. The top of the monopole is approximately 171'; T-Mobile's proposed antennas will be located at a center line height of 136'.
2. The proposed modifications will not require the extension of the site boundary as depicted on the attached site plan. T-Mobile's equipment will be located entirely within the existing compound area.
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, the combined site operations will result in a total power density of 26.20% as evidenced by the power density calculations attached as **Exhibit D**.

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 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 monopole has been deemed structurally 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 monopole in Washington. 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 the owner 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 the 136' level of the existing 171' monopole would have an insignificant visual impact on the area around the tower. T-Mobile's ground equipment would be installed within the existing facility compound. T-Mobile's shared use would therefore 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 owner of this facility to mutually agreeable terms. As previously mentioned, the Letter of Authorization has been provided by the owner to assist T-Mobile with this tower sharing application.
- E. Public Safety Concerns. As discussed above, the monopole 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. T-Mobile's intentions of providing new and improved wireless service through the shared use of this facility is expected to enhance the safety and welfare of local residents and individuals traveling through Washington.

Sincerely,

*Kyle Richers*

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cc: Mark E. Lyon, First Selectman, Town of Washington  
American Tower, tower owner  
Ray & Carol Underwood, property owner