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June 2, 2016

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

T-Mobile Northeast LLC – CTNH143C
Tower Share Application
153 E. Haddam Road, Salem, CT 06420
Latitude- 41.46847000
Longitude- -72.27329000

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 153 E. Haddam Road in Salem, CT.

T-Mobile will install six (6) 700/1900/2100 MHz antennas and nine (9) total RRH’s at the 175’ level of the existing 190’ lattice tower. One (1) hybrid cable will also be installed on the lattice tower. T-Mobile’s equipment cabinets will be placed on an existing 6’ X 10’-6” concrete pad within the existing fenced-in compound. Including are plans prepared by Hudson Design Group dated June 1, 2016, depicting the planned installation and attached as **Exhibit A**. Also included is a structural analysis prepared by A.T. Engineering Service, PLLC, dated April 22, 2016, confirming that the existing tower is structurally capable of supporting T-Mobile’s equipment and 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 Mr. Kevin T. Lyden, First Selectman for the Town of Salem, and tower and property owner, American Tower. Please see the letter from American Tower authorizing the proposed shared use of the facility attached as **Exhibit C**.

The planned modification to 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 lattice tower is approximately 190’; T-Mobile’s proposed antennas will be located at a center line height of 175’.
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 or 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 (**Exhibit D**), the combined site operations will result in a total power density of 18.63%.
5. The proposed equipment will not cause a change or alteration in the physical or environmental characteristics of the site. Please see the Programmatic Agreement Letter from American Tower dated April 18, 2016 attached as **Exhibit E**.

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 lattice tower 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 lattice tower in Salem. 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 175' of the existing 190' lattice tower 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 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 tower sharing of the existing lattice tower. T-Mobile's intentions of providing new and improved wireless service though the shared use of this facility is expected to enhance the safety and welfare of local residents and individuals traveling through Salem.

Sincerely,

Kyle Richers

Kyle Richers
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908-447-4716

Attachments:

cc: Kevin T. Lyden, First Selectman, Town of Salem
American Tower – tower/property owner