

DOCKET NO. 401 - T-Mobile Northeast LLC Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 208 Valley Road, New Canaan, Connecticut. } Connecticut
} Siting
} Council

February 21, 2013

**Development and Management Plan
Staff Report**

On February 2, 2012, the Connecticut Siting Council (Council) issued a Certificate of Environmental Compatibility and Public Need to T-Mobile Northeast LLC (T-Mobile) for the construction, maintenance, and operation of a 120-foot tower located at 208 Valley Road, New Canaan, Connecticut. Consistent with Condition No. 2 of the Council's Decision and Order (D&O), T-Mobile submitted a Development and Management (D&M) Plan for the approved facility on January 30, 2013.

The proposed tower will be located in the north-central portion of the Silver Hill Hospital property on Valley Road. Consistent with D&O Condition No. 1, the tower will be constructed as a 120-foot monopole with concealed antennas. T-Mobile antennas would be located at a centerline height of 117 feet above ground level (agl). Cellco Partnership dba Verizon Wireless (Verizon) will have two antenna mounts with centerline heights of 106 feet and 96 feet agl. All antennas will be located within the monopole. The monopole will be painted brown and have a diameter at the base of the tower of five feet two inches tapering to a diameter of three feet four inches at the top.

The tower will be located within a 25-foot by 50-foot equipment compound surrounded by an eight-foot high brown cedar board fence. A retaining wall will extend on all sides of the compound. The retaining wall will be approximately six feet high on the west side and approximately two feet high on the east side of the compound with the north and south sides tapering from west to east. A double row of six-foot to eight-foot tall arborvitae trees would be installed along the eastern side of the compound for screening.

T-Mobile will install equipment cabinets and a battery cabinet on a 15-foot by 15-foot concrete pad in the southern portion of the equipment compound. Verizon will install equipment within an approximately 12-foot by 25-foot equipment shelter in the northern portion of the compound. Verizon will also install a diesel generator for backup power within its equipment shelter. T-Mobile will share Verizon's backup diesel generator during power outages. The generator will provide both carriers with power for an estimated 57 hours, running at full capacity.

A drainage swale will be constructed along the western and northern edges of the compound that would discharge into a new level spreader at the northeast corner of the compound. In addition, two level spreaders will be installed on the eastern side of the compound area and one level spreader would be installed adjacent to the existing hospital driveway. Also, a drainage outlet would extend from the mid-point of the eastern side of the compound to the northeast and end at a riprap energy dissipater. Silt fence will be installed along the eastern edge of the work area, outside of the landscaping and drainage control areas.

Access to the site will extend from Valley Road, along the existing Silver Hill Hospital driveway. A 29-foot by 13-foot parking area will be created along the existing hospital driveway requiring a curb cut. A 10-foot wide driveway will extend 60 feet from the parking area to the compound. Utilities would be installed underground along the access drive.

The cumulative worst-case maximum power density from the radio frequency emissions from the operation of T-Mobile's and Verizon's antennas is 29 percent of the standard for Maximum Permissible Exposure, as adopted by the Federal Communications Commission, at the base of the tower.

T-Mobile has complied with the Council's D&O dated February 2, 2012 and Council staff recommends approval of this D&M Plan.