August 20, 2013

Julie D. Kohler, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604

RE: EM-T-MOBILE-034-130726 – T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 7 West View Drive, Danbury, Connecticut.

Dear Attorney Kohler:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated July 25, 2013. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,

Melanie A. Bechman
Acting Executive Director

MAB/CDM/jb

c: The Honorable Mark D. Boughton, Mayor, City of Danbury
Dennis Elpern, City Planner, City of Danbury
Robert Kaufman

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: sitting.council@ct.gov
www.ct.gov/csc
April 23, 2015

Attorney Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06501

Re: EM-T-MOBILE-034-130726
T-Mobile Site ID CT11923C
7 West View, Danbury, CT
Notice of Construction Completion

Dear Attorney Bachman:

The Connecticut Siting Council ("Council") acknowledged the above referenced T-Mobile Northeast LLC ("T-Mobile") notice of exempt modification on August 20, 2013. T-Mobile hereby notifies the Council that construction of the acknowledged modifications were complete as of December 16, 2013.

Please don’t hesitate to contact me with any questions.

Sincerely,

Rachel A. Schwartzman

cc: Samuel Simons, T-Mobile
    Mark Richard, T-Mobile
    Robert Stanford, Vertical Development, LLC
    Julie Kohler, Esq.
December 23, 2014

Via Electronic and Overnight Mail

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

Re: T-Mobile Exempt Modification Compliance Filings
Request For Extension of Time

Dear Attorney Bachman:

T-Mobile Northeast, LLC ("T-Mobile") respectfully requests a 60-day extension of time to March 2, 2015 to respond to the Council's request, dated November 3, 2014, for exempt modification compliance data. The attached spreadsheet provides a list of the sites for which T-Mobile seeks a requested extension.

T-Mobile is actively compiling all of the requested information but needs additional time to provide the necessary documentation.

Please do not hesitate to let me know if you have any questions.

Sincerely,

Rachel A. Schwartzman, Esq.

RAS/lcc
Enclosure

cc: Samuel Simons, T-Mobile Northeast, LLC (via electronic mail)
    Mark Richard, T-Mobile Northeast, LLC (via electronic mail)
    Robert Stanford, Vertical Development, LLC (via electronic mail)
    Julie Kohler, Esq.
<table>
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<th>Date</th>
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</tbody>
</table>
December 24, 2014

Rachel A. Schwartzman, Esq.
Cohen and Wolf, P.C.
P.O. Box 1821
Bridgeport, CT 06601

RE:  
EM-T-MOBILE-004-130531  81 Montevideo Road  Avon
EM-T-MOBILE-009-130611  38 Spring Hill Lane  Bethel
EM-T-MOBILE-014-130724  405 Brushy Plain Road  Branford
EM-T-MOBILE-017-130611  2 Willis Street  Bristol
EM-T-MOBILE-017-130729  985 Farmington Avenue  Bristol
EM-T-MOBILE-033-130719  179 Shunpike Road  Cromwell
EM-T-MOBILE-034-130531A  41 Padanaram Road  Danbury
EM-T-MOBILE-034-130531B  303 Boxwood Lane  Danbury
EM-T-MOBILE-034-130726  7 West View Drive  Danbury
EM-T-MOBILE-043-130222  1455 Forbes Street  East Hartford
EM-T-MOBILE-049-130718  1 Ecology Drive  Enfield
EM-T-MOBILE-057-130220  150 Butternut Hollow Road  Greenwich
EM-T-MOBILE-080-130903  11 West Peak Drive  Meriden
EM-T-MOBILE-091-130531A  302 Ball Pond Road  New Fairfield
EM-T-MOBILE-091-130531B  37 Titicus Mountain Road  New Fairfield
EM-T-MOBILE-101-130611  125 Washington Avenue  North Haven
EM-T-MOBILE-110-130621  335 S. Washington Street  Plainville
EM-T-MOBILE-135-130318  555 Main Street  Stamford
EM-T-MOBILE-148-130531  90 N. Plains Industrial Road  Wallingford
EM-T-MOBILE-166-130726  Andrews Road  Wolcott
EM-T-MOBILE-166-130816  Route 322/Meridian Road  Wolcott

Dear Attorney Schwartzman:

The Connecticut Siting Council (Council) is in receipt of your letter dated December 23, 2014, submitted on behalf of T-Mobile, requesting an extension of time to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

The Council hereby grants a 60-day extension of time to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications to March 2, 2015.

This extension is granted with the understanding that the Council will be notified should T-Mobile need additional time beyond 60 days to submit a notice of completion and associated post modification inspection reports or decide not to proceed with construction.
Thank you for your attention to this matter.

Sincerely,

Melanie A. Bachman
Acting Executive Director

MAB/cm
February 27, 2015

Via Electronic and Overnight Mail

Attorney Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06501

Re: T-Mobile Notice of Completion Filings (Third Quarter Audit)
Request for Extension of Time

Dear Attorney Bachman:

T-Mobile Northeast, LLC ("T-Mobile") respectfully requests an additional two-month extension of time to respond to the Council's request for notice of completion of construction and associated post-modification inspection reports for the following sites:

EM-T-MOBILE-049-130724, 1 Ecology Drive, Enfield (Site ID CT11534A)
EM-T-MOBILE-014-130724 405, Brushy Plains Road, Branford (Site ID NH102C)
EM-T-MOBILE-080-130903, 11 West Peak Drive, Meriden (Site ID11132B)
EM-T-MOBILE-034-130531A, 41 Padnaram Road, Danbury (CT11896A)
EM-T-MOBILE-091-130531A, 302 Ball Pond Road, New Fairfield (CT11797A)
EM-T-MOBILE-009-130611, 38 Spring Hill Road, Bethel (CT11115F)
EM-T-MOBILE-017-130611, 2 Willis Street, Bristol (CT11270C)
EM-T-MOBILE-034-130726, 7 West View, Danbury (CT11923C)
EM-T-MOBILE-166-130816, Route 322 aka Meridan Road aka 347 East Street, Wolcott (CT11494B)
EM-T-MOBILE-004-130531, 81 Montevideo Road, Avon (CT11284A)
EM-T-MOBILE-033-130719, 179 Shunpike Road, Cromwell (CT11059C)
EM-T-MOBILE-166-130726, Andrew Road, Wolcott (CT11403A)

T-Mobile has filed the appropriate compliance filings for several third quarter sites, but needs additional time to provide the requested information for the above-referenced sites. T-Mobile has diligently obtained much of the required documentation, and is working with its vendors and engineers to obtain the proper closeout records. T-Mobile continues to actively compile the requested information, but needs additional time to do so.
Please do not hesitate to let me know if you have any questions.

Sincerely,

Rachel A. Schwartzman

RAS/lcc

cc: Samuel Simons, T-Mobile Northeast, LLC (via electronic mail)  
    Mark Richard, T-Mobile Northeast, LLC (via electronic mail)  
    Robert Stanford, Vertical Development, LLC (via electronic mail)  
    Julie Kohler, Esq. (via electronic mail)
VIA ELECTRONIC AND FIRST CLASS MAIL

March 2, 2015

Rachel A. Schwartzman, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604

RE:   EM-T-MOBILE-049-130724, 1Ecology Drive, Enfield
      EM-T-MOBILE-014-130724405, Brushy Plains Road, Branford
      EM-T-MOBILE-080-130903, 1West Peak Drive, Meriden
      EM-T-MOBILE-034-B0531A, 41Padnaram Road, Danbury
      EM-T-MOBILE-091-B0531A, 302 Ball Pond Road, New Fairfield
      EM-T-MOBILE-009-130611, 38 Spring Hill Road, Bethel
      EM-T-MOBILE-017-130611, 2 Willis Street, Bristol
      EM-T-MOBILE-034-30726, 7 West View, Danbury
      EM-T-MOBILE-166-B0815, Route 322 aka Meriden Road aka 347 East Street, Wolcott
      EM-T-MOBILE-004-B0531, 81 Montevideo Road, Avon
      EM-T-MOBILE-033-B0719, 179 Shunpike Road, Cromwell
      EM-T-MOBILE-166-B0726, Andrew Road, Wolcott

Dear Attorney Schwartzman:

The Connecticut Siting Council (Council) is in receipt of your letter dated February 27, 2015, submitted on behalf of T-Mobile Northeast, LLC, requesting an extension of time to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

The Council hereby grants a 60-day extension of time, until May 2, 2015, to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

This extension is granted with the understanding that the Council will be notified should T-Mobile Northeast, LLC need additional time beyond 60 days to submit a notice of completion and associated post modification inspection reports or decide not to proceed with construction.

Thank you for your attention to this matter.

Sincerely,

Melanie A. Bachman
Acting Executive Director

MAB/cm
July 25, 2013

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

Re: Notice of Exempt Modification  
Robert J. Kaufman/T-Mobile co-location  
Site ID CT11923C  
7 West View Drive, Danbury

Dear Attorney Bachman:

This office represents T-Mobile Northeast LLC ("T-Mobile") and has been retained to file exempt modification filings with the Connecticut Siting Council on its behalf.

In this case, Robert J. Kaufman owns the existing lattice telecommunications tower and related facility at 7 West View Drive, Danbury Connecticut (coordinates 41 23 45.6/-73 25 25.6794). T-Mobile intends to replace six antennas and related equipment at this existing telecommunications facility in Danbury ("Danbury Facility"). Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Mayor, Mark D. Boughton. Robert J. Kaufman is also the property owner.

The existing Danbury Facility consists of a 100 foot tall lattice structure. T-Mobile plans to replace six antennas at a centerline of 50 feet. (See the plans dated July 25, 2013 attached hereto as Exhibit A). T-Mobile will also remove three TMAs (tower mounted amplifiers) and install fiber cable. The existing Facility is structurally capable of supporting T-Mobile's proposed modifications, as indicated in the structural analysis dated July 12, 2013 and attached hereto as Exhibit B.

The planned modifications to the Danbury Facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modification will not increase the height of the tower. T-Mobile's
replacement antennas will be installed at the 50 foot level. The enclosed tower drawing confirms that the proposed modification will not increase the height of the tower.

2. The installation of the T-Mobile replacement equipment in the existing compound, as reflected on the attached site plan, will not require an extension of the site boundaries. T-Mobile’s proposed equipment will be located entirely within the existing compound area.

3. The proposed modification to the Facility will not increase the noise levels at the existing facility by six decibels or more.

4. The operation of the replacement antennas will not increase the total radio frequency (RF) power density, measured at the base of the tower, to a level at or above the applicable standard. According to a Radio Frequency Emissions Analysis Report prepared by EBI dated July 23, 2013 T-Mobile’s operations would add 5.384% of the FCC Standard. Therefore, the calculated “worst case” power density for the planned combined operation at the site including all of the proposed antennas would be 8.984% of the FCC Standard as calculated for a mixed frequency site as evidenced by the engineering exhibit attached hereto as Exhibit C.

For the foregoing reasons, T-Mobile respectfully submits that the proposed replacement antennas and equipment at the Danbury Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Julie D. Kohler, Esq.

cc: City of Danbury, Mayor, Mark D. Boughton
    Robert J. Kaufman
    Jamie Ford, HSS
EXHIBIT A
EXIST T-MOBILE CABLE PORT (ABOVE)

EXIST T-MOBILE 200A PPC

EXIST T-MOBILE RIS 3105 CABINET TO REMAIN

EXIST T-MOBILE 7/8' COAX CABLES ROUTED ALONG EXIST CABLE SUPPORT ALONG EXIST BEAMS

EXIST T-MOBILE CABINET SUPPORT

EXIST T-MOBILE 5500 CABINETS TO BE DARKENED (TO REMAIN)

EXIST TOWER LEG (TYP OF 4)

EXIST T-MOBILE CABINET (TYP)

EXIST CONC BASE (TYP)

EXIST CABINETS (BY OTHERS) (TYP)

EXIST POWER PANEL (BY OTHERS) (TYP)

EXIST METERS

EXIST STAIRS

EXIST RECO BOARD

EXIST ACCESS DOOR

PROPOSED T-MOBILE FIBER CABLE ROUTED ALONG EXIST CABLE SUPPORT ALONG EXIST BEAMS

SITE PLAN

SCALE: 1/4" = 1'-0"

STRUCTURAL NOTE:
REFER TO STRUCTURAL ANALYSIS BY TECTONIC ENGINEERING DATED 7/12/13 FOR VERIFICATION OF TOWER STRUCTURE STABILITY.

CONFIGURATION

2C
ELEVATION
SCALE: 1/16" = 1'-0"

- EXIST WHIP ANTENNA (BY OTHERS) (TYP)
- EXIST Whip Antenna 100'-0" AGL
- T/EXIST TOWER EXTENSION 135'-0" AGL
- EXIST DISH ANTENNA (BY OTHERS TYP)
- EXIST (18) T-MOBILE 7/8" COAX CABLES
- PROPOSED T-MOBILE FIBER CABLE ROUTED UP TOWER LEG TO REPLACEMENT ANTENNAS
- EXIST T-MOBILE RBS 310B CABINET TO REMAIN (BEYOND)
- EXIST T-MOBILE 8000 CABINETS TO BE DARKENED (TO REMAIN) (BEYOND)
- EXIST BUILDING
- EXIST GRADE

ANTENNA PLAN
SCALE: 3/16" = 1'-0"

- EXIST T-MOBILE GAMMA SECTOR ANTENNA TO BE REPLACED (TYP OF 2)
- EXIST T-MOBILE TMA TO BE REMOVED & (1) TMA TO REMAIN
- EXIST T-MOBILE ALPHA SECTOR ANTENNA TO BE REPLACED (TYP OF 2)
- EXIST T-MOBILE TMA TO BE REMOVED & (1) TMA TO REMAIN
- EXIST T-MOBILE BETA SECTOR ANTENNA TO BE REPLACED (TYP OF 2)
- EXIST T-MOBILE EMPTY PIPE MOUNT (TYP)

STRUCTURAL NOTE:
REFER TO STRUCTURAL ANALYSIS BY TECTONIC ENGINEERING DATED 7/12/13 FOR VERIFICATION OF TOWER STRUCTURAL STABILITY.
EXHIBIT B
STRUCTURAL ANALYSIS

SUMMARY REPORT

T-MOBILE UPGRADE

EXISTING 100 FEET SELF-SUPPORTING TOWER

T-MOBILE SITE: CT11923C; CT923/W.VIEW DRIVE GT
7 WEST VIEW DRIVE,
DANBURY, CT

JULY 12, 2013

TEC W.O. 6644.CT11923C

TECTONIC
Practical Solutions, Exceptional Service
Project Information
- W.O. Number: 6644 11923C
- Client: T-Mobile
- Site Name: CT923 / W. View Drive GT
- Owner: Steven T. LLC
- Site Address: 7 West View Drive
- City, State: Danbury, CT 06810
- FCC Regulation Number: 1204508
- County: Fairfield
- Report Date: 7/12/2013
- Revision: 0

Structure Information
- Structure Type: Self-Supporting Tower
- Structure Height: 100 ft.
- Year Built: Unknown
- Original Drawings: Structure: No, Foundation: No
- Previous Analysis: Yes
- Manufacturer: Unknown
- Documents provided:
  - Item: Structural Analysis Report (28 pages)
    - By: Pier Structural Engineering
    - No.: 2695
    - Date: 2/23/09
  - Item: RFDS v.3.0
    - By: T-Mobile
    - No.: CT11923C
    - Date: 3/28/13
  - Item: Tower Mapping Report (34 pages)
    - By: Vertical Solutions
    - No.: 130578
    - Date: 7/3/13
  - Item: Foundation Mapping Report (8 pages)
    - By: Vertical Solutions
    - No.: 130578
    - Date: 7/3/13
  - Item: Geotechnical Investigation Report - Rev 1
    - By: Tectonic
    - No.: 6644.CT11923C
    - Date: 7/12/13

Inspection
- Type: Tower Climb
- Date: 6/11/2013
- General Condition:
  - Tower: Good
  - Foundation: Good
- Observations: None
- Finish: Galvanized
- Condition: Intact

Proposed Installation
- T-Mobile is proposing to upgrade its existing installation by replacing existing panel antennas with newer model antennas, and removing three (3) existing TMA's. The final configuration upon the upgrade will be as follows:
  **Antennas:**
  - Height (ft.): 50
  - Carrier: T-Mobile
  - Qty: 6
  - Manufact.: Ericsson
  - Model: AIR21 B2A/B4P
  - Mount: (3) 10' Sector Frames
  - Leg (s): A,B,D

  **Cables:**
  - Height (ft.): 50
  - Qty: 16
  - Nom. Size: 7/8"
  - Location: Face
  - Comments: AB Existing to remain
  - Height (ft.): 50
  - Qty: 8
  - Nom. Size: 7/8"
  - Location: Face
  - Comments: AD Existing to remain
  - Height (ft.): 50
  - Qty: 1
  - Nom. Size: Fiber Trunk line
  - Location: Face
  - Comments: AD To be stacked on existing

Analysis Criteria
- Design Standard: ANSI/TIA/EIA-222-F-1996
- Wind Speed: 95 mph
- Service: 50 mph
- Basic Ice Thickness: 0 inch
- Service: 0 inch

Assumptions:
1. The tower was designed, manufactured, and constructed in accordance with the approved tower drawings.
2. The tower reinforcement has been completed in accordance with the previous analysis report referenced above.
3. The foundation was designed and constructed based on site-specific geotechnical information.
4. Tower leg members and bracings members conforms to ASTM A36 grade steel.
5. Anchor Bolts conforms to ASTM A354 Grade BC steel.
Analysis Results

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Foundation Reactions:

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<td>Shear (total)</td>
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Conclusions

Based on our analysis, the existing tower has adequate capacity to support the proposed T-Mobile upgrade as described herein in accordance with current code requirements.

Based on our analysis, the existing foundation is adequate to support the proposed T-Mobile upgrade.

This report and the structural analysis performed are based on the information referenced above. If the existing conditions are not as represented in this report, the design engineer should be immediately notified prior to construction. Any further changes to the antenna configuration or other appurtenances should be reviewed with respect to their effect on structural loads prior to implementation.

Prepared by: Kenneth Widman, EIT
Structural Engineer

Reviewed by: Vinod Ramesh, EIT
Structural Engineer

Approved by: Edward N. Iamicelli, P.E.
Project Manager

Date: 7/12/13
EXHIBIT C
RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT11923C

W. View Drive
7 West View Drive
Danbury CT 06810

July 23, 2013

EBI Project Number: 62138524
July 23, 2013

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Re: Emissions Values for Site: CT11923C - W. View Drive

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 7 West View Drive, Danbury CT, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μW/cm²). The number of μW/cm² calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (μW/cm²). The general population exposure limit for the cellular band is 567 μW/cm², and the general population exposure limit for the PCS band is 1000 μW/cm². Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.
Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

**CALCULATIONS**

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 7 West View Drive, Danbury CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, the actual antenna pattern gain value in the direction of the sample area was used. For this report the sample point is a 6 foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

1) 2 GSM channels (1940.000 MHz—to 1950.000 MHz) were considered for each sector of the proposed installation.
2) 2 UMTS channels (2110.000 MHz to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation.
3) 2 LTE channels (2110.000 MHz to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation.
4) All radios at the proposed installation were considered to be running at full power and were uncontended in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
5) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
6) The antenna used in this modeling is the Ericsson AR21 for LTE, UMTS and GSM. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.6 dBi gain value at its main lobe. Actual antenna gain values were used for all calculations as per the manufacturers specifications.
7) The antenna mounting height centerline of the proposed antennas is **50 feet** above ground level (AGL)
8) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculation were done with respect to uncontrolled / general public threshold limits
<table>
<thead>
<tr>
<th>Sector 1</th>
<th>Sector 2</th>
<th>Sector 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Antenna Number</strong></td>
<td><strong>Antenna Model</strong></td>
<td><strong>Status</strong></td>
</tr>
<tr>
<td>1</td>
<td>AR921 32x / 36x</td>
<td>Passive</td>
</tr>
<tr>
<td>19</td>
<td>AR921 32x / 36x</td>
<td>Passive</td>
</tr>
<tr>
<td>24</td>
<td>AR921 32x / 36x</td>
<td>Passive</td>
</tr>
<tr>
<td><strong>Sector Total Power Density Value:</strong></td>
<td>7.875%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Cartier</strong></th>
<th><strong>WNL %</strong></th>
<th><strong>Notes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Site Composite WNL</strong></td>
<td><strong>Measurement for all other carriers, Per CSC</strong></td>
<td><strong>WNL Database</strong></td>
</tr>
<tr>
<td>95.0%</td>
<td>7.5%</td>
<td>3.98%</td>
</tr>
<tr>
<td><strong>Total Site WNL %</strong></td>
<td>0.98%</td>
<td></td>
</tr>
</tbody>
</table>
Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public exposure to RF Emissions.

The anticipated Maximum Composite contributions from the T-Mobile facility are 5.384% (1.795% from each sector) of the allowable FCC established general public limit considering all three sectors simultaneously.

The anticipated composite MPE value for this site assuming all carriers present is 8.984% of the allowable FCC established general public limit. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were within the allowable 100% threshold standard per the federal government.

Scott Heffernan
RF Engineering Director

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