COHEN and WOLF P.C.
ATTORNEYS AT LAW

JULIE D. KOHLER

PLEASE REPLY TO: Bridgeport
WRITER'S DIRECT DIAL: (203) 337-4157
E-Mail Address: jkohler@cohenandwolf.com

June 12, 2012

Ms. Linda Roberts,
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Notice of Exempt Modification
Fairfield Police Department/T-Mobile co-location
Site ID 11401A
100 Reef Road, Fairfield CT

Dear Ms. Roberts:

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, the Fairfield Police Department owns the existing telecommunications tower and related facility at 100 Reef Road, Fairfield, Connecticut (latitude 41-08-23/longitude 73-15-28). T-Mobile intends to replace six antennas and add associated equipment at this existing facility in Fairfield ("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 Fairfield First Selectman, Michael C. Tetreau.

The Facility consists of a 145 foot tower. The tower currently supports the antennas of T-Mobile (EM-T-MOBILE-051-090416), MetroPCS (TS-METROPCS-051-080523), AT&T (EM-CING-051-111223), and Clearwire (EM-CLEARWIRE-051-100521).

T-Mobile plans to replace six antenna mounted on the tower at a centerline of 133 feet. (See the plans revised to June 11, 2012 attached hereto as Exhibit A). T-Mobile will also mount 2 equipment cabinets (identified as RAC24 and PBC05) on the railing within the Facility compound area and run fiber conduit along existing coaxial cables. The existing tower is structurally capable of supporting T-Mobile's proposed replacement antennas and equipment installation, as indicated in the structural comparative analysis dated June 7, 2012 and attached hereto as Exhibit B.

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The planned modifications to the Fairfield 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' replacement antennas will be installed at the 133 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 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 Facility by six decibels or more.

4. The operation of the additional 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 RF Exposure Analysis prepared by EBI dated June 4, 2012 T-Mobile' operations would add 0.646% of the FCC Standard. Therefore, the calculated "worst case" power density for the planned combined operation at the site including the replacement antennas would be 36.286% 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 addition of antennas and equipment at the Fairfield Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Julie D. Kohler, Esq.

cc: First Selectman, Michael C. Tetreau
Mark Richard, T-Mobile (via e-mail)
Jamie Ford, HPC Wireless (via e-mail)

T-MOBILE USA, INC.
12920 SE 38TH STREET
BELLEVUE, WA 98006
(425) 378-4000

2331590
4/30/2012
2000011160

Invoice Number	Inv. Date	Description	Deductions	Voucher	Amount Paid
CKKMB00278	4/25/2012	AL SITE CT11401 FILING FEE	0.00	1100650153	625.00

DO NOT ACCEPT THIS CHECK UNLESS THE FACE FADES FROM BLACK TO RED WITH LOGO IN BACKGROUND. THE BACK OF THIS DOCUMENT HAS HEAT-SENSITIVE INK THAT CHANGES FROM ORANGE TO YELLOW

T-MOBILE USA, INC.
12920 SE 38th Street
Bellevue, WA 98006
(425) 378-4000

Mellon Bank
500 Ross Street
Pittsburgh, PA 15262
60-160/433

2331590
4/30/2012
VID 2000011160

PAY $625 00
SIX TWO-FIVE CTS CTS

*$625.00

Six Hundred Twenty Five Dollars Only*******

To The Order Of
CONNECTICUT SITING COUNCIL
10 FRANKLIN SQ
NEW BRITAIN, CT 06051

VOID AFTER 180 DAYS
THIS CHECK CLEARS THROUGH POSITIVE PAY

⑈000233159⓪⑈ ⑆043301601⑆ 013⑈8430⑈

THE ORIGINAL DOCUMENT HAS A REFLECTIVE WATERMARK ON THE BACK. HOLD AT AN ANGLE TO VIEW, DO NOT CASH IF MISSING.

EXHIBIT A

N

APPROX

3
L-2

RELOCATED GFCI

EXIST 100 AMP PANEL BELOW

EXIST GFCI TO BE RELOCATED

EXIST GPS UNIT TO BE RELOCATED

PROPOSED T-MOBILE RAC24 CABINET MOUNTED TO EXIST RAILING

PROPOSED T-MOBILE PBC 05 CABINET MOUNTED TO EXIST RAILING

RELOCATED GPS UNIT

2
L-1
EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

REEF ROAD

EXIST METROPCS EQUIPMENT PLATFORM ON STEEL

EXIST HVAC UNIT (TYP)

EXIST AT&T SHELTER

EXIST SPRINT EQUIPMENT PLATFORM ON STEEL

NICHOLS STREET

EXIST STAIR CAGE

EXIST MONOPOLE

EXIST T-MOBILE COAX CABLES ROUTED BELOW STEEL (6) 1 5/8" (6) 1 1/4"

EXIST NEXTEL EQUIPMENT SHELTER

EXIST T-MOBILE S12000

PROPOSED FIBER CONDUIT ROUTED ALONG EXIST COAX CABLES

1
L-2

1
L-1
ROOF PLAN
SCALE: 1/16" = 1'-0"

STRUCTURAL NOTE:
EXIST MOUNTS, PLATFORMS, MONOPOLE STRUCTURES TO BE VERIFIED FOR STRUCTURAL SUITABILITY OF PROPOSED INSTALLATION BY A STATE LICENSED P.E.

CONFIGURATION
2C

0 1 2 3
ORIGINAL SIZE IN INCHES

TECTONIC
• PLANNING • ENGINEERING • SURVEYING • CONSTRUCTION MANAGEMENT
TECTONIC Engineering & Surveying Consultants P.C.
1279 Route 300
Newburgh, NY 12550
Phone: (845) 567-6656
Fax: (845) 567-8703

T-Mobile
NORTHEAST LLC.

T-MOBILE NORTHEAST, LLC.
4 SYLVAN DRIVE
PARSIPPANY, NJ 07054
PHONE: (973) 686-6500

APPROVALS

T-MOBILE _____
LANDLORD _____
RF _____
CONSTRUCTION _____

PROJECT NUMBER	DESIGNED BY
6203.CT11401A	GL

REV	DATE	REVISION	DRAWN BY
0	04/12/12	FOR COMMENT	MT
1	5/9/12	PER COMMENT	BW
2	5/18/12	PER COMMENT	BW
3	6/11/12	PER COMMENT	LH

ISSUED BY _____ DATE _____

SITE INFORMATION

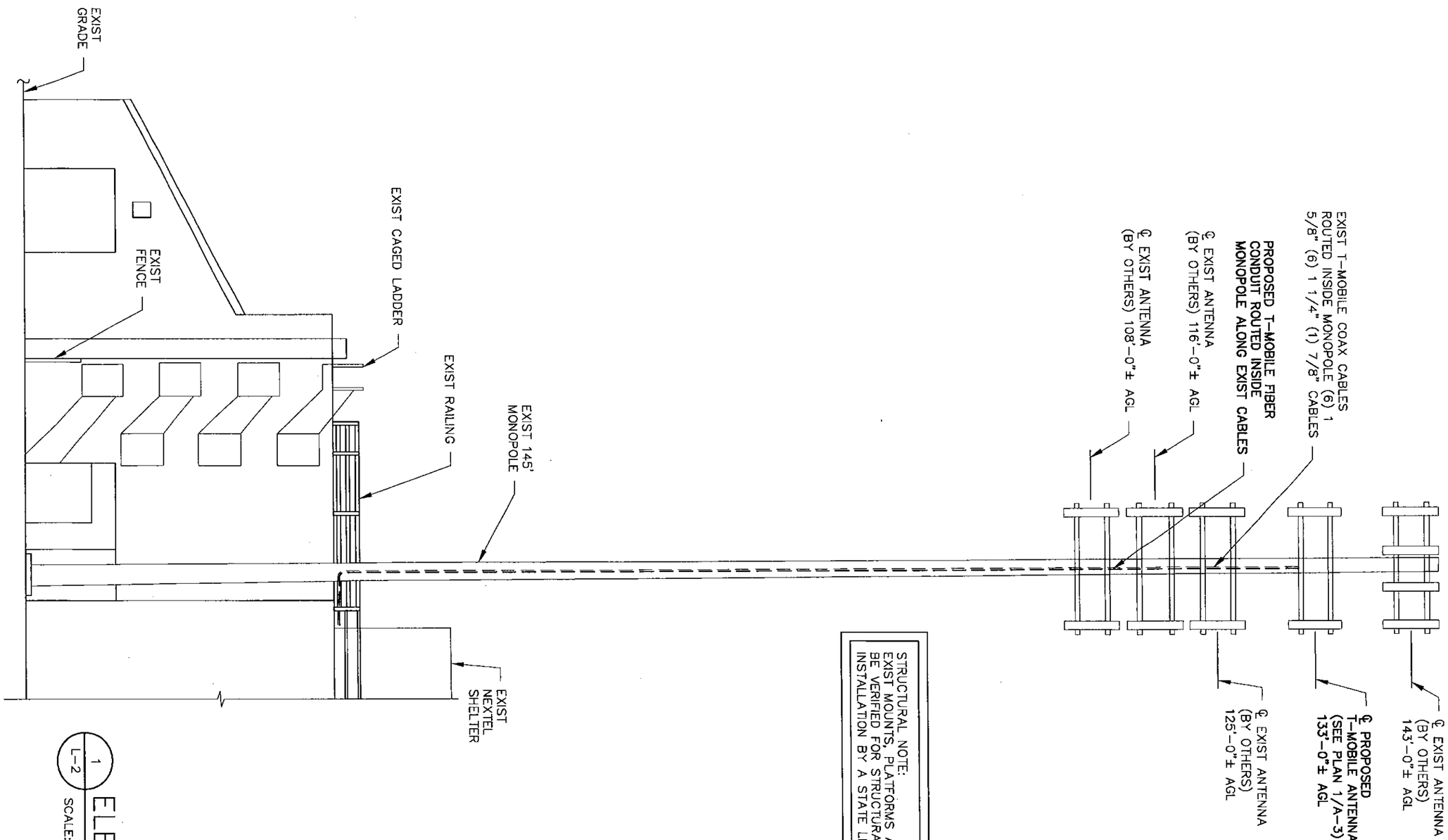
CT11401A
FAIRFIELD POLICE DEPT.
100 REEF ROAD
FAIRFIELD, CT 06824

SHEET TITLE

ROOF PLAN

SHEET NUMBER

L-1



1 / L-2 ELEVATION

SCALE: 3/32" = 1'-0"

STRUCTURAL NOTE:
EXIST MOUNTS, PLATFORMS AND BUILDING STRUCTURE TO BE VERIFIED FOR STRUCTURAL SUITABILITY OF PROPOSED INSTALLATION BY A STATE LICENSED P.E.

CONFIGURATION
2C

0 1 2 3
ORIGINAL SIZE IN INCHES

TECTONIC
• PLANNING • SURVEYING
• ENGINEERING • CONSTRUCTION MANAGEMENT

TECTONIC Engineering & Surveying Consultants P.C.
1279 Route 300
Newburgh, NY 12550
Phone: (845) 567-6656
Fax: (845) 567-8703

T-Mobile
NORTHEAST LLC.

T-MOBILE NORTHEAST, LLC.
4 SYLVAN DRIVE
PARSIPPANY, NJ 07054
PHONE: (973) 656-6500

APPROVALS

T-MOBILE _____
LANDLORD _____
RF _____
CONSTRUCTION _____

PROJECT NUMBER	DESIGNED BY
6203.CT11401A	GL

REV	DATE	REVISION	DRAWN BY
0	04/12/12	FOR COMMENT	MT
1	5/9/12	PER COMMENT	BW
2	5/18/12	PER COMMENT	BW
3	6/11/12	PER COMMENT	LH

ISSUED BY _____ DATE _____

SITE INFORMATION

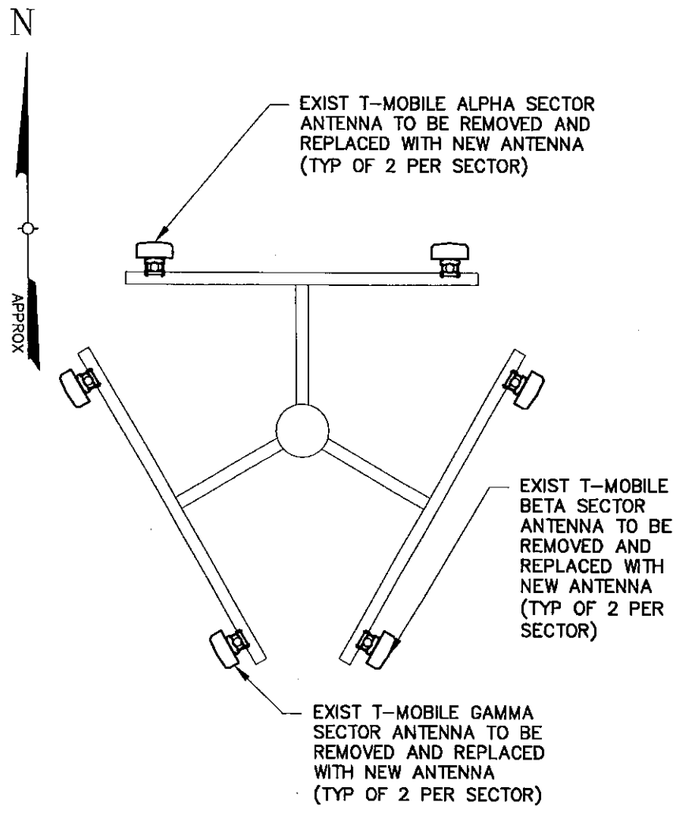
CT11401A
FAIRFIELD POLICE DEPT.
100 REEF ROAD
FAIRFIELD, CT 06824

SHEET TITLE

ELEVATION

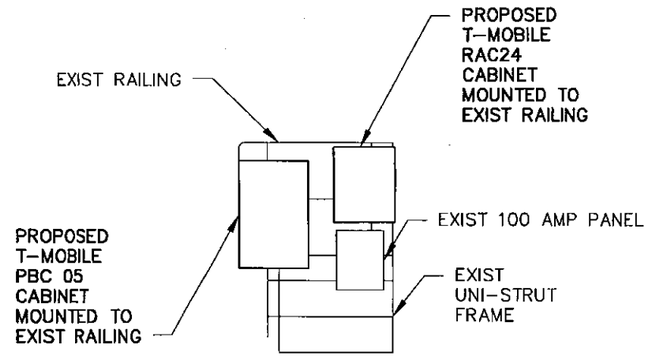
SHEET NUMBER

L-2



1 / L-3 ANTENNA PLAN

SCALE: NTS



2 / L-3 ELEVATION

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

STRUCTURAL NOTE:
EXIST MOUNTS, PLATFORMS AND BUILDING STRUCTURE TO BE VERIFIED FOR STRUCTURAL SUITABILITY OF PROPOSED INSTALLATION BY A STATE LICENSED P.E.

CONFIGURATION: 2C

0 1 2 3

ORIGINAL SIZE IN INCHES

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TECTONIC Engineering & Surveying Consultants P.C.
1279 Route 300
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Fax: (845) 567-8703

T-Mobile
NORTHEAST LLC.

T-MOBILE NORTHEAST, LLC.
4 SYLVAN DRIVE
PARSIPPANY, NJ 07054
PHONE: (973) 886-6500

APPROVALS

T-MOBILE _____
LANDLORD _____
RF _____
CONSTRUCTION _____

PROJECT NUMBER	DESIGNED BY
5203.CT11401A	GL

REV	DATE	REVISION	DRAWN BY
0	04/12/12	FOR COMMENT	MT
1	5/9/12	PER COMMENT	BW
2	5/18/12	PER COMMENT	BW
3	6/11/12	PER COMMENT	LH

ISSUED BY _____ DATE _____

SITE INFORMATION

CT11401A
FAIRFIELD POLICE DEPT.
100 REEF ROAD
FAIRFIELD, CT 06824

SHEET TITLE

ANTENNA PLAN & ELEVATION

SHEET NUMBER

L-3

EXHIBIT B

TECTONIC
Practical Solutions, Exceptional Service

CORPORATE OFFICE:
Mountainville, NY (800) 829-6531

TECTONIC Engineering & Surveying Consultants P.C.
1279 Route 300
Newburgh, NY 12550

(845) 567-6656 FAX: (845) 567-8703
www.tectonicengineering.com

Amy English
HPC Wireless
46 Mill Plain Rd, (Floor 2)
Danbury, CT-06811

June 7, 2012

RE: W.O. 6203-CT11401A
SITE ID: CT11401A
100 REEF ROAD
FAIRFIELD, CT 06824
STRUCTURAL COMPARATIVE ANALYSIS (MODERNIZATION PROJECT)

Dear Ms. English,

T Mobile is proposing to replace six (6) antennas at the captioned site. Along with that T-Mobile is proposing to add (1) PBC 05 Cabinet (200 lbs. max weight) and (1) RAC24 Cabinet (185 lbs. max weight).

Existing Antenna Specifications

(3) Antel RR90-18-00DP
Height: 72"
Width: 8"
Depth: 2.8"
Weight: 16 lbs
Wind Area: 4 SF

(3) APX16DWV-16DWV-S-E-ACU
Height: 55.9"
Width: 13.3"
Depth: 3.15"
Weight: 41 lbs
Wind Area: 5.16 SF

Total WT: 171 lbs
Total WA: 27.48 SF

Replacement Antenna Specifications

(6) AIR21
Height: 56"
Width: 12"
Depth: 8"
Weight: 105 lbs
Wind Area: 4.67 SF

Total WT: 630 lbs
Total WA: 28.02 SF

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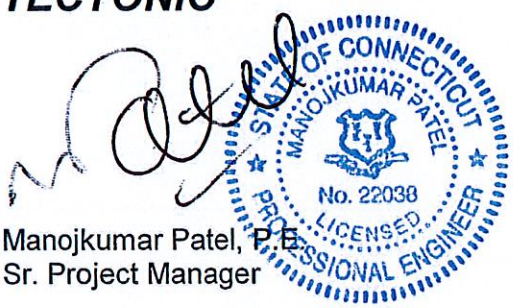
The physical characteristics for the proposed replacement antennas, as outlined above, increases the overall wind area of T-Mobile antennas by approximately 2%, and increases in the overall weight in connection with T-Mobile antennas by 438 lbs.

Based on the review of the previous analysis report prepared by FDH Engineering INC., for KMB Design Group dated 3/23/2009, the pole shafts were rated at 84.1% and the Anchor Bolts and Base Plate were under its allowable stress. In addition, the base reactions were within the Original Design reactions except for Shear. Based on the fact that the increase in the wind area of the proposed antennas is relatively small, we believe the existing pole has sufficient reserve capacity to support the additional loads due to the proposed T-Mobile upgrade.

We believe the previous analysis was per the most stringent criteria of the 2003 IBC (State Building Code, 2005 CT Supplement) and TIA/EIA-222-F-1996 "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures". This structural comparative analysis is based on a limited visual inspection from ground and information provided by the client. We assume that the original site has been designed, fabricated and constructed in compliance with the applicable building code at the time. Contractor shall field verify existing conditions and recommendations as noted on the construction drawings and notify the design engineer of any discrepancies prior to installation of the proposed upgrade.

Should you have any questions, please do not hesitate to contact Tammy Nosek at 845-567-6656 Ext 807.

Sincerely,
TECTONIC



Manojkumar Patel, P.E.
Sr. Project Manager

G:\Newburgh\Projects\6203-HPC Wireless\CT11401\Structural\6203-CT11401A Str letter RS.doc

EXHIBIT C

EBI CONSULTING
www.ebiconsulting.com

21 B Street
Burlington, MA 01803
Tel: (781) 273.2500

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT11401A

Fairfield Downtown Area
100 Reef Road
Fairfield, CT 06430

June 04, 2012

EBI CONSULTING
www.ebiconsulting.com

21 B Street
Burlington, MA 01803
Tel: (781) 273.2500

June 04, 2012

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

Re: Emissions Values for Site CT11401A – Fairfield Downtown Area

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 100 Reef Road, Fairfield, 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 97-01and 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.

21 B Street
Burlington, MA 01803
Tel: (781) 273.2500

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 100 Reef Road, Fairfield, 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 uncombined 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 AIR21 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 dBd gain value at its main lobe. Actual antenna gain values were used for all calculations as per the manufacturers specifications

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Burlington, MA 01803

Tel: (781) 273.2500

7) The antenna mounting height centerline of the proposed antennas is **133 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

Site ID	CT11401A - Fairfield Downtown Area
Site Addresss	100 Reef Road., Fairfield, CT 06430
Site Type	Self Support Tower

Sector 1

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	133	127	None	0	0	48.326044	1.077159	0.10772%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	133	127	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	133	127	None	0	0	24.163022	0.538579	0.05386%
2B	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	133	127	1-5/8"	0	0	24.163022	0.538579	0.05386%
														Sector total Power Density Value:			0.21543%

Sector 2

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	133	127	None	0	0	48.326044	1.077159	0.10772%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	133	127	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	133	127	None	0	0	24.163022	0.538579	0.05386%
28	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	133	127	1-5/8"	0	0	24.163022	0.538579	0.05386%
														Sector total Power Density Value:			0.21543%

Sector 3

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	133	127	None	0	0	48.326044	1.077159	0.10772%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	133	127	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	133	127	None	0	0	24.163022	0.538579	0.05386%
28	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	133	127	1-5/8"	0	0	24.163022	0.538579	0.05386%
														Sector total Power Density Value:			0.21543%

Site Composite MPE %	
Carrier	MPE %
T-Mobile	0.64630%
Clearwire	0.91000%
AT&T	18.22000%
Metro PCS	16.51000%
Total Site MPE %	**36.286%**

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21 B Street
Burlington, MA 01803
Tel: (781) 273.2500

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 **0.646% (0.215% 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 **36.286%** 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 well within the allowable 100% threshold standard per the federal government