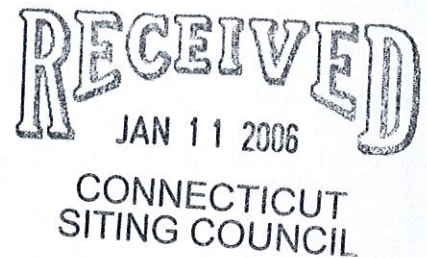


ORIGINAL



TS-T-MOBILE-006-060111

100 Filley Street, Bloomfield, CT 06002
860-692-7118 fax 860-692-7159
Karina.Fournier@t-mobile.com

January 11, 2006

BY HAND

Pamela B. Katz, Chairman and
Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: **Tower Sharing Request by T-Mobile
Lopus Road Beacon Falls, CT
Latitude: 41 25 57 / Longitude: 73 04 15**

Dear Ms. Katz and Members of the Siting Council:

Pursuant to Connecticut General Statutes (C.G.S.) § 16-50aa, Omnipoint Communications, Inc. a.k.a. T-Mobile (formerly Voicestream Wireless Corp.) hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed ("Town of Beacon Falls MP"), in Beacon Falls, CT owned by the Town of Beacon Falls. T-Mobile and the Town of Beacon Falls have agreed to the shared use of the Town of Beacon Falls MP, as detailed below.

Town of Beacon Falls MP

The Town of Beacon Falls MP facility consists of a one hundred fifty foot high monopole ("Tower") owned and operated by the Town of Beacon Falls. T-Mobile proposes to locate antennas at a centerline mounting height of one hundred thirty five (135) feet. The equipment will be located within a compound at the base of the tower.

Town of Beacon Falls MP

As shown on the enclosed drawing of the Town of Beacon Falls MP, annexed hereto as Exhibit 1, T-Mobile proposes a shared use of the Facility by placing antennas on the tower and equipment needed to provide personal communications services ("PCS") within the existing site plan. T-Mobile will install nine (9) antennas at the one hundred thirty five (135) foot level of the Tower. Three (3) associated unmanned equipment cabinets will be located at the base of the tower.

Connecticut General Statutes § 16-50aa provides that, upon written request for shared use approval, an order approving such use shall be issued, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns." (C.G.S. § 16-50aa(c)(1).) Further, upon approval of such shared use, it is exclusive and no local zoning or land use approvals are required C.G.S. § 16-50x. Shared use of the Town of Beacon Falls MP satisfies the approval criteria set forth in C.G.S. § 16-50aa as follows:

- A. Technical Feasibility The Tower and compound were designed to accommodate multiple carriers. A structural analysis of the Tower with the proposed T-Mobile installation has been performed and is attached as Exhibit 2. The structural analysis concludes that, the tower can safely accommodate the proposed T-Mobile antennas. The proposed shared use of this Tower is technically feasible. Further there is sufficient room at the base of the facility, thus the site plan will not have to be altered.
- B. Legal Feasibility Pursuant to C.G.S. § 16-50aa, the Council has been authorized to issue an order approving shared use of the existing Town of Beacon Falls MP (C.G.S. § 16-50aa (C)(1)). Under the authority vested in the Council by C.G.S. § 16-50aa, an order by the Council approving the shared use of a tower would permit the Applicant to obtain a building permit for the proposed installation.
- C. Environmental Feasibility The proposed shared use would have a minimal environmental effect, for the following reasons:

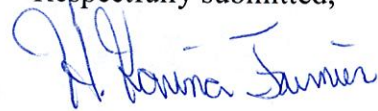
- 1.) The proposed installation would have a de minimis visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing facility,
 - 2.) The proposed installation by T-Mobile would not increase the height of the tower nor expand the site plan at the Town of Beacon Falls MP and will be of minimal impact to the facility;
 - 3.) The proposed installation would not increase the noise levels at the existing facility boundaries by six decibels or more;
 - 4.) Operation of T-Mobile's antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. The "worst case" exposure calculated for the operation of this facility for T-Mobile would be approximately 9.58% of the standard. See Radio Frequency Memo dated January 11, 2006, annexed hereto as Exhibit 3.
 - 5.) The proposed shared use of the Town of Beacon Falls MP will not require any water or sanitary facilities, or generate any air emissions or discharges to water bodies. Further, the installation will not generate any traffic other than for periodic maintenance visits.
- D. Economic Feasibility The Applicant and the tower owner have agreed to share use of the Town of Beacon Falls MP on terms agreeable to both parties. The proposed tower sharing is therefore economically feasible.
- E. Public Safety As stated above and evidenced in the Radio Frequency Field Survey annexed hereto as Exhibit 3, the operation of T-Mobile's antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. Further, the addition of T-Mobile's telecommunications service in the Beacon Falls area through shared use of the Town of Beacon Falls MP is expected to enhance the safety and welfare of local residents and travelers through the area resulting in an improvement to public safety in this area.

Page 4

Conclusion

Town of Beacon Falls MP satisfies the criteria set forth in C.G.S. § 16-50aa, and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of tower in the State of Connecticut. T-Mobile therefore requests the Siting Council issue an order approving the proposed shared use of the Town of Beacon Falls MP.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "K. Fournier".

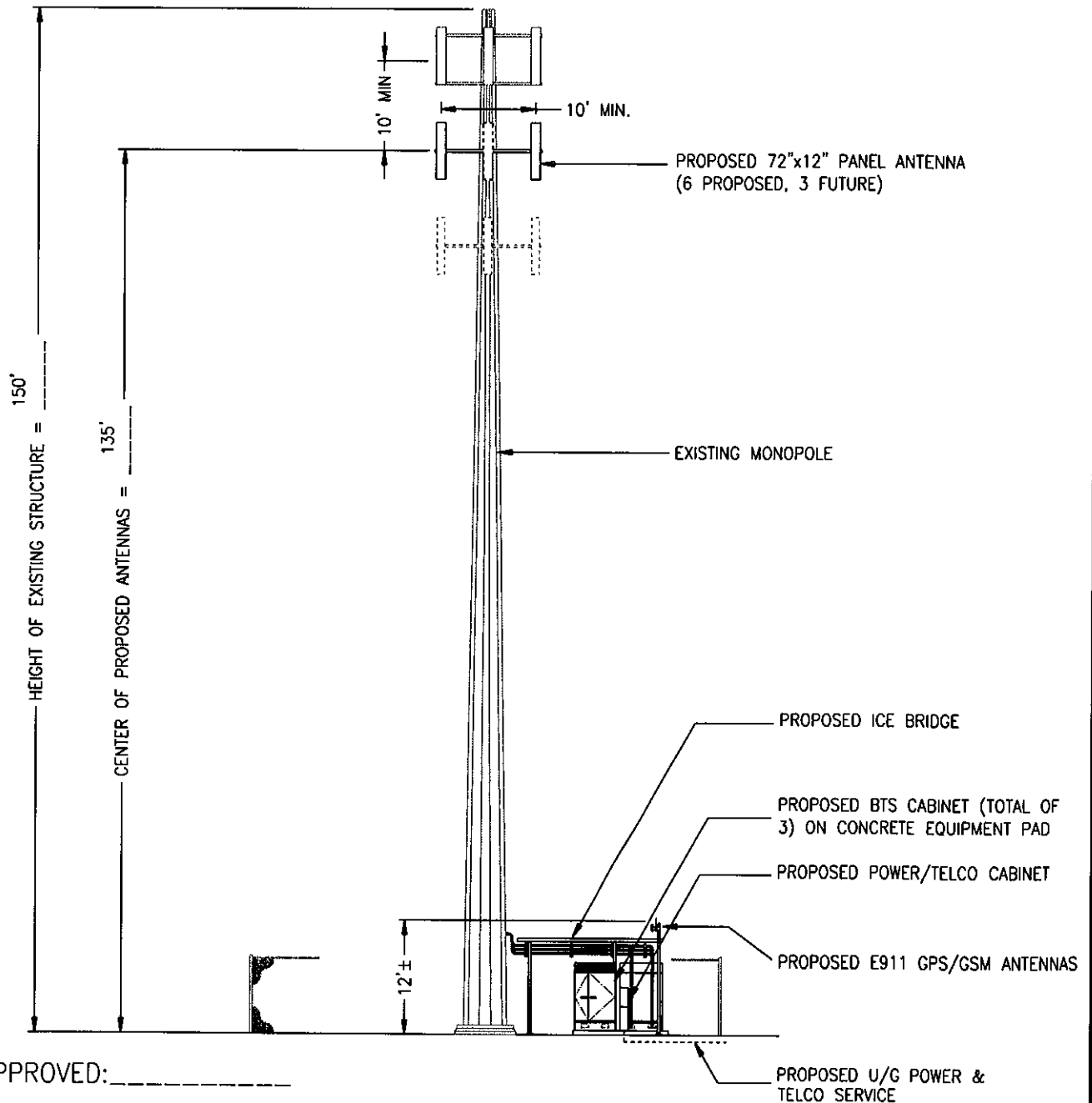
Karina Fournier
Zoning Dept.
T-Mobile
100 Filley St.
Bloomfield, CT 06002
(860) 692-7118

cc: First Selectman, Susan Ann Cable

Exhibit 1

NOTE:

PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. OMNIPOINT COMMUNICATIONS, INC. IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. OMNIPOINT COMMUNICATIONS, INC. RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.



RF APPROVED: _____

ELEVATION

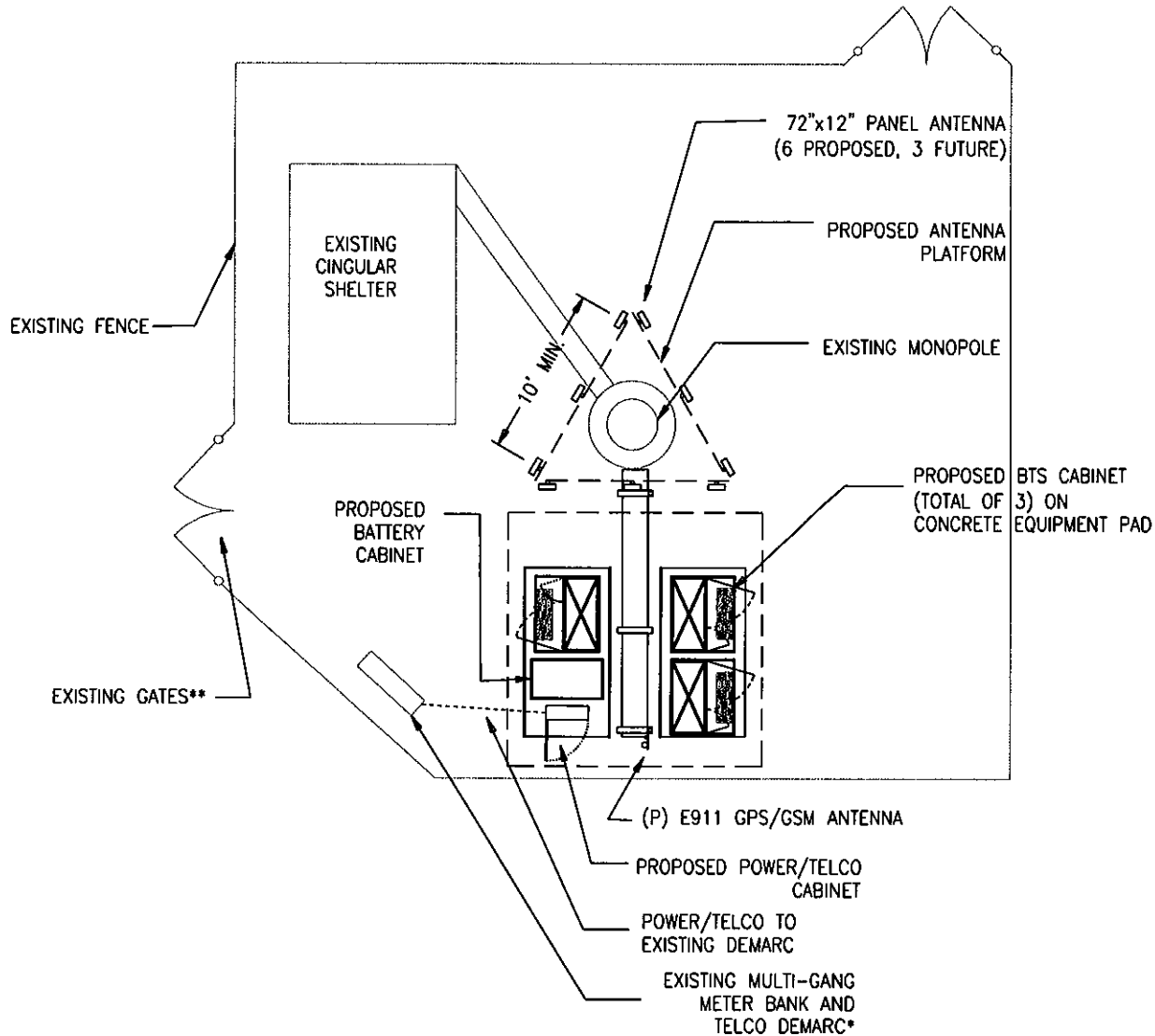
ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY OMNIPOINT COMMUNICATIONS, INC. STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.

REV. 1: 11/6/05 (DOC)

<p>SITE NO: CT11-487B SITE NAME: TOWN OF BEACON FALLS MP ADDRESS: LOPUS ROAD (NO #) BEACON FALLS, CT</p>	<p>OMNIPOINT COMMUNICATIONS, INC. 100 FILLEY STREET BLOOMFIELD, CT 06002</p>	<p>SITE TYPE: MONOPOLE CO-LOCATE DRAWN BY: D. B. HILL</p>	<p>DATE: 01/23/04 SCALE: NTS</p>
---	---	--	---

IMPORTANT NOTE: ALL ITEMS LABELLED AS "EXISTING" ARE FUTURE BY CINGULAR WIRELESS. COMPOUND LAYOUT PER CINGULAR CD'S DATED 10/12/05. ALL PROPOSED ITEMS ARE PROPOSED COLOCATION ON THE FUTURE INSTALLATION.

ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY OMNIPOINT COMMUNICATIONS, INC. STRUCTURAL & RF ENGINEERS. LOCATIONS OF POWER & TELEPHONE FACILITIES ARE SUBJECT TO APPROVAL BY UTILITY COMPANIES.



RF APPROVED: _____

ANTENNA AZIMUTHS:

SECTOR A=

SECTOR B=

SECTOR C=

PLAN



*EQUIPMENT SPECIFICATIONS AND UTILITY EASEMENTS AS REQUIRED BY TELCO AND POWER COMPANY.

REV. 1: 11/6/05 (DOC)

SITE NO: CT11-487B
 SITE NAME: TOWN OF BEACON FALLS MP
 ADDRESS: LOPUS ROAD (NO #)
 BEACON FALLS, CT

OMNIPOINT COMMUNICATIONS, INC.

100 FILLEY STREET
 BLOOMFIELD, CT 06002

SITE TYPE: MONOPOLE
 CO-LOCATE

DATE:
 01/23/04

DRAWN BY: D. B. HILL

SCALE: NTS

Exhibit 2



**ENGINEERED
ENDEAVORS
INCORPORATED**

The Experienced Point of View

Customer: TECTONIC
Description: 145' MONOPOLE
EEI Job Number: 13674



SITE INFORMATION

Location: NEW HAVEN COUNTY, CT
Site Name: BEACON FALLS
Site Number: S1690

DESIGN INFORMATION

Designed By: N. UNGER
Design Date: 10/3/2005
Status: REVISION 0

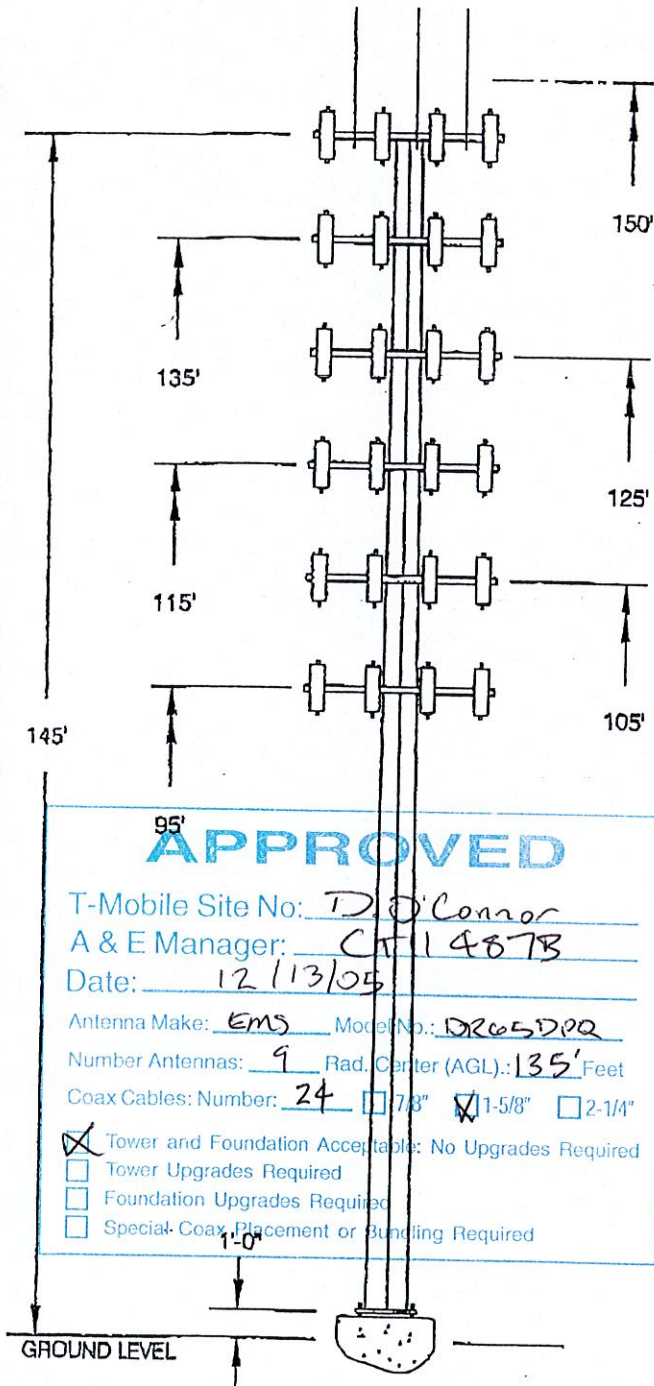
ANTENNA LOADING

- (12) 7770 PANEL ANTENNAS, (6) LGP2140X TMAs, (18) LGP13519 DIPLEXERS AND (3) OMNIDIRECTIONAL ANTENNAS MOUNTED ON A 12' LOW PROFILE PLATFORM AT 145' (CINGULAR)
- (12) ALP 9212 PANEL ANTENNAS MOUNTED ON A 12' LOW PROFILE PLATFORM AT 135' (FUTURE)
- (12) ALP 9212 PANEL ANTENNAS MOUNTED ON A 12' LOW PROFILE PLATFORM AT 125' (FUTURE)
- (12) ALP 9212 PANEL ANTENNAS MOUNTED ON A 12' LOW PROFILE PLATFORM AT 115' (FUTURE)
- (12) ALP 9212 PANEL ANTENNAS MOUNTED ON A 12' LOW PROFILE PLATFORM AT 105' (FUTURE)
- (12) ALP 9212 PANEL ANTENNAS MOUNTED ON A 12' LOW PROFILE PLATFORM AT 95' (FUTURE)

DESIGN CRITERIA

DESIGNED IN ACCORDANCE WITH THE TIA/EIA 222-F FOR 85 MPH FASTEST MILE WIND SPEED AND 1/2" RADIAL ICE (NON-SIMULTANEOUS)

DESIGN MEETS THE REQUIREMENTS OF SECTIONS 1609 AND 3108 OF THE 2000 AND 2003 INTERNATIONAL BUILDING CODES FOR 105 MPH 3-SECOND GUST WIND SPEED



APPROVED

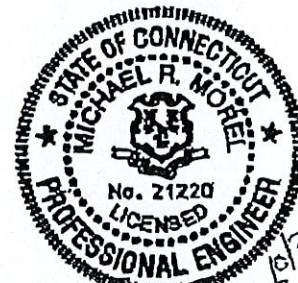
T-Mobile Site No: D.O'Connor
A & E Manager: CT 14873
Date: 12/13/05

Antenna Make: EMS Model No.: DR65DPR
Number Antennas: 9 Rad. Center (AGL): 135' Feet
Coax Cables: Number: 24 ☐ 7/8" ☒ 1-5/8" ☐ 2-1/4"

- ☒ Tower and Foundation Acceptable: No Upgrades Required
☐ Tower Upgrades Required
☐ Foundation Upgrades Required
☐ Special Coax Placement or Bundling Required

ENGINEERED ENDEAVORS, INC.

7610 Jenther Drive • Mentor, Ohio 44060-4872
Phone: (440) 918-1101 • Phone: (888) 270-3855
Fax: (440) 918-1108 • www.engend.com



Michael R. Morel

Exhibit 3



T-Mobile USA Inc.
100 Filley St, Bloomfield, CT 06002-1853
Phone: (860) 692-7100
Fax: (860) 692-7159

Technical Memo

To: Christine Farrell
From: Farid Marbough - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CT11487B
Date: January 11, 2006

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the T-Mobile PCS antenna installation on a Monopole at Lopus Rd, Beacon Falls, CT. This study incorporates the most conservative consideration for determining the practical combined worst case power density levels that would be theoretically encountered from locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from T-Mobile transmitters are in the 1935-1945 MHz frequency band.
- 2) The antenna array consists of three sectors, with 3 antennas per sector.
- 3) The model number for each antenna is EMS RR90-17-02DP.
- 4) The antenna center line height is 135 ft.
- 5) The maximum transmit power from any sector is 1676.18 Watts Effective Radiated Power (EIRP) assuming 8 channels per sector.
- 6) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 7) Power levels emitting from the antennas 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.
- 8) The average ground level of the studied area does not change significantly with respect to the transmitting location

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worst case assumptions, the power density calculation from the T-Mobile PCS antenna installation on a Monopole at Lopus Rd, Beacon Falls, CT, is 0.0221 mW/cm². This value represents 2.21% of the Maximum Permissible Emission (MPE) standard of 1 milliwatt per square centimeter (mW/cm²) set forth in the FCC/ANSI/IEEE C95.1-1991. Furthermore, the proposed antenna location for T-Mobile will not interfere with existing public safety communications, AM or FM radio broadcasts, TV, Police Communications, HAM Radio communications or any other signals in the area. The combined Power Density from other carriers is 7.37%. The combined Power Density for the site is 9.58% of the M.P.E. standard.

New England Market



Connecticut

Worst Case Power Density

Site:	CT11487B
Site Address:	Lopus Rd
Town:	Beacon Falls
Tower Height:	150 ft.
Tower Style:	Monopole
Base Station TX output	20 W
Number of channels	8
Antenna Model	EMS RR90-17-02DP
Cable Size	1 5/8 in.
Cable Length	155 ft.
Antenna Height	135.0 ft.
Ground Reflection	1.6
Frequency	1935.0 MHz
Jumper & Connector loss	4.50 dB
Antenna Gain	16.5 dBi
Cable Loss per foot	0.0116 dB
Total Cable Loss	1.7980 dB
Total Attenuation	6.2980 dB
Total EIRP per Channel	53.21 dBm
(In Watts)	209.52 W
Total EIRP per Sector	62.24 dBm
(In Watts)	1676.18 W
nsg	10.2020
Power Density (S) =	0.022098 mW/cm^2
T-Mobile Worst Case % MPE =	2.2098%
Equation Used : $S = \frac{(1000(grf))^2 (Power) * 10^{(nsg/10)}}{4 \pi (R)^2}$	
Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997	

Co-Location Total	
Carrier	% of Standard
Verizon	
Cingular PCS	2.1900 %
Cingular Cellular	5.1800 %
AT&T Wireless	
Nextel	
Total Excluding T-Mobile	7.3700 %
T-Mobile	2.2098
Total % MPE for Site	9.5798%



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

www.ct.gov/csc

January 13, 2006

The Honorable Susan Ann Cable
First Selectman
Town of Beacon Falls
10 Maple Avenue
Beacon Falls, CT 06403

RE: **TS-T-MOBILE-006-060111** - Omnipoint Communications, Inc. (T-Mobile) request for an order to approve tower sharing at an existing telecommunications facility located at Lopus Road, Beacon Falls, Connecticut.

Dear Ms. Cable:

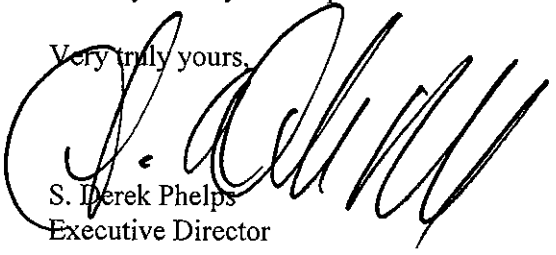
The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for January 25, 2006, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by January 24, 2006.

Thank you for your cooperation and consideration.

Very truly yours,


S. Derek Phelps
Executive Director

SDP/ap

Enclosure: Notice of Tower Sharing

c: Brian Herb, Zoning Enforcement Officer, Town of Beacon Falls

T-Mobile

Omnipoint Holdings, Inc.
100 Filley Street, Bloomfield, CT. 06002
Telephone: (860) 692-7100 Fax: (860) 692-7159

Recipient (s):	Phone Number (s):	Fax Number (s):
mike Perrone		860-827-2750

Date: 1/25/06 Pages: 2 (including cover sheet)

Attached is the revised drawings.

Call me if you have any questions.

RECEIVED
JAN 25 2006

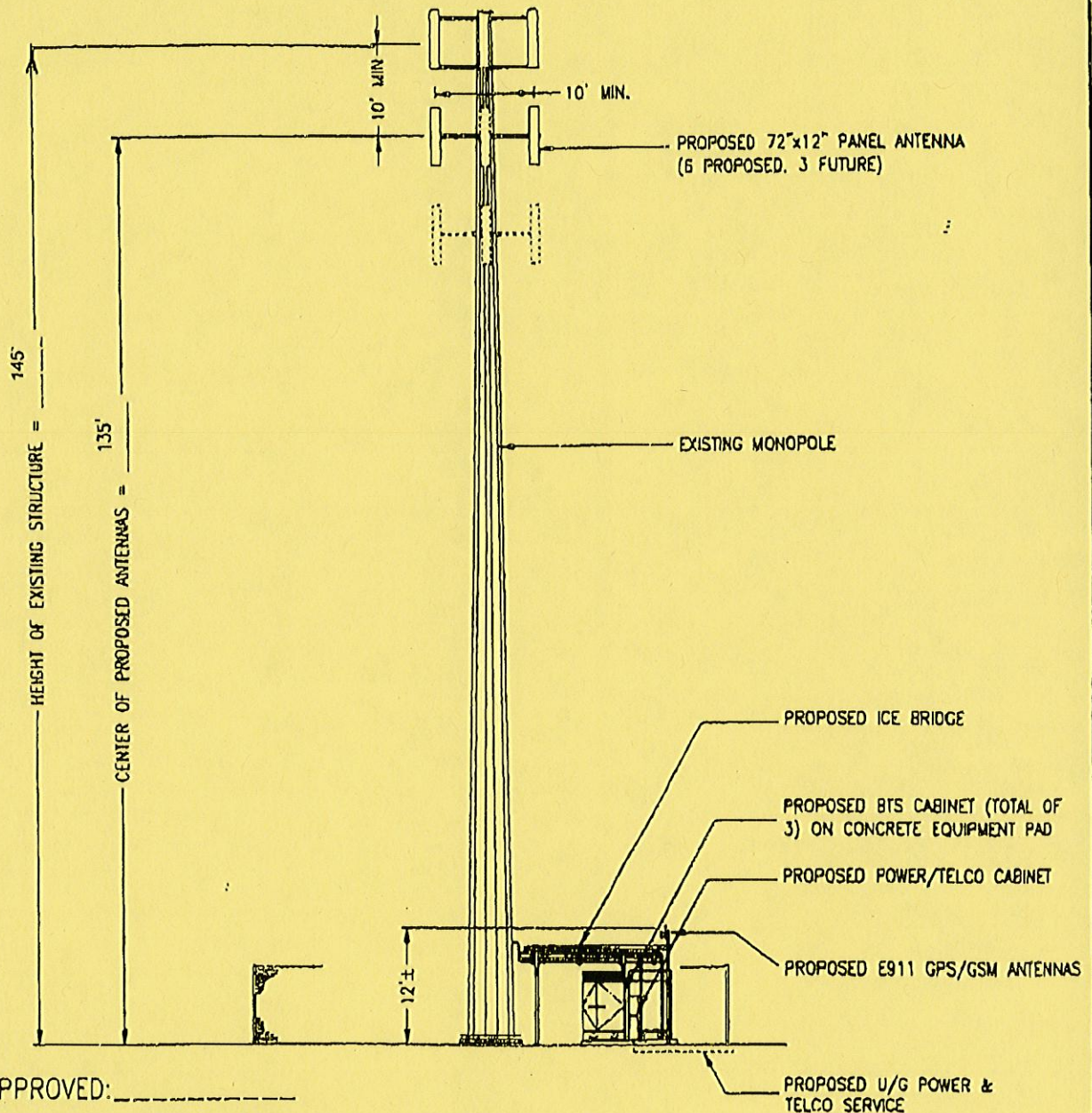
CONNECTICUT
SITING COUNCIL

Sender: Karna Farnier Sender's Direct Dial: 860-692-2118

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NOTE:

PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. OMNIPPOINT COMMUNICATIONS, INC. IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. OMNIPPOINT COMMUNICATIONS, INC. RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.



RF APPROVED: _____

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ELEVATION

REV. 1: 11/6/05 (DOC)

SITE NO: CT11-487B
 SITE NAME: TOWN OF BEACON FALLS MP
 ADDRESS: LOPUS ROAD (NO #)
 BEACON FALLS, CT

OMNIPPOINT COMMUNICATIONS, INC.

100 FILLEY STREET
 BLOOMFIELD, CT 06002

SITE TYPE: MONOPOLE
 CO-LOCATE

DATE:
 01/23/04

DRAWN BY: D. B. HILL

SCALE: NTS