

#### 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 Web Site: www.state.ct.us/csc/index.htm

July 31, 2003 Web

Stephen J. Humes LeBoeuf, Lamb, Greene & MacRae Goodwin Square 225 Asylum Street Hartford, CT 06103

RE: **EM-T-MOBILE-077-030702** - Omnipoint Communications, Inc. notice of intent to modify an existing telecommunications facility located at 205 Spencer Street, Manchester, Connecticut.

Dear Attorney Humes:

At a public meeting held on July 22, 2003, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies. Although there are no conditions attached with this approval, enclosed please find a letter from the Town of Manchester with their recommendations for your review and consideration.

The proposed modifications are to be implemented as specified here and in your notice dated July 2, 2003. 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. 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. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Pamela B. Katz, P.E.

Chairman

PBK/laf

c: Honorable Stephen T. Cassano, Mayor, Town of Manchester Thomas R. O'Marra, Zoning Enforcement OfficerTown of Manchester Christopher B. Fisher, Esq., Cuddy & Feder LLP



## Town of Manchester

41 Center Street • P.O. Box 191

Manchester, Connecticut 06045–0191

www.ci.manchester.ct.us

STEPHEN T. CASSANO, MAYOR JOSH M. HOWROYD, DEPUTY MAYOR CHRISTY SCOTT, SECRETARY

DIRECTORS
TIMOTHY H. BECKER
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LOUIS A. SPADACCINI
KEVIN L. ZINGLER

July 21, 2003

Facsimile - 860-827-2950

S. Derek Phelps, Executive Director State of Connecticut Connecticut Siting Council Ten Franklin Square New Britain, Connecticut 06051



Re: EM-T-Mobile-077-030702 – Omnipoint Communications, Inc. 205 Spencer Street, Manchester, Connecticut

Dear Mr. Phelps:

Thank you for the opportunity to comment with regards to the subject application. As in the past with sharing arrangements, the Town of Manchester would request that all equipment cabinets be painted to match the colors of the existing cabinets. Our understanding is that the existing cabinets are required to be beige in accordance with the original approval granted by the Manchester Planning and Zoning Commission.

Thank you very much for your attention to this matter.

Very truly yours,

Thomas R. O'Marra

**Zoning Enforcement Officer** 

TRO'M:ka

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## Town of Manchester

41 Center Street . P.O. Box 191 Manchester, Connecticut 06045-0191 www.ci.manchester.ct.us

STEPHEN T. CASSANO, MAYOR JOSH M. HOWROYD, DEPUTY MAYOR CHRISTY SCOTT, SECRETARY

> DIRECTORS TIMOTHY H. BECKER THOMAS P. CROCKETT JOSEPH S. HACHEY DAVID M. SHERIDAN LOUIS A. SPADACCINI KEVIN L. ZINGLER

STEVEN R. WERBNER, GENERAL MANAGER

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July 7, 2003

Honorable Stephen T. Cassano Mayor Town of Manchester Town Hall 41 Center Street P. O. Box 191 Manchester, CT 06040-0191

RE:

**EM-T-MOBILE-077-030702** – Omnipoint Communications, Inc. notice of intent to modify an existing telecommunications facility located at 205 Spencer Street, Manchester, Connecticut.

Dear Mr. Cassano:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 22, 2003, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours

S. Derek Phelps
Executive Director

SDP/ld

Enclosure: Notice of Tower Sharing

c: Thomas R. O'Marra, Zoning Enforcement Officer, Town of Manchester

#### LEBOEUF, LAMB, GREENE & MACRAE

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EM-T-MOBILE-077-030702

July 2, 2003

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JUL - 2 2003

CONNECTICUT SITING COUNCIL

Pamela Katz, Chairman Connecticut Siting Council 10 Franklin Square New Britain, Connecticut 06051

Re:

Notice of Exempt Modification

205 Spencer Street, Manchester, Connecticut

Dear Chairman Katz and Members of the Council:

Please be advised that LeBoeuf, Lamb, Greene & MacRae, L.L.P. represents Omnipoint Communications, Inc., a subsidiary of T-Mobile USA, Inc. (hereinafter T-Mobile) in the above-referenced matter. T-Mobile intends to add three antennas to its existing three-antenna array within the existing flagpole facility in Manchester. Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of construction that 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 Manchester Mayor Stephen T. Cassano.

#### **Background**

T-Mobile holds the "A block" "Wideband PCS" license for the 2-GHz PCS frequencies for the greater New York City area, including the entire State of Connecticut. T-Mobile is licensed by the Federal Communications Commission (FCC) to provide PCS wireless telecommunications service in the State of Connecticut, which includes the area to be served by the proposed installation.

#### **Discussion**

The existing facility consists of a one hundred twenty-five foot (125') flagpole (see attached drawing, attached as Exhibit B) and surrounding compound. The coordinates for the site are **Lat:** 41°-46'-10.75" and **Long:** 72°-34'-12.33". The tower is on the north side of Spencer Street, approximately one thousand feet (1,000') north of the intersection with Hillstown Road and roughly twenty-five hundred feet south of Interstate 384 in the western portion of Manchester (see site location map, attached as exhibit A). The site is located behind a large commercial plaza on property of the Kranzco Realty Trust and is accessed from that property.

T-Mobile proposes to add three (3) antennas to supplement its existing three-antenna setup, creating an antenna array with a total of six (6) antennas. The proposed configuration is a stacked cluster of three sectors with two antennas per sector mounted in a canister within the existing flagpole structure. T-Mobile currently has antennas in the flagpole at the one hundred nine foot (109') centerline above ground level ("AGL"). The new antennas would be mounted in the slot above, at the one hundred nineteen foot (119') centerline AGL. A structure elevation is shown as part of Exhibit B. The model number for the replacement antennas is EMS-RR90-17-02DP. A structural analysis and design calculations of the tower has been completed and is attached as Exhibit D. As stated in the structural analysis, the existing tower is capable of supporting the proposed T-Mobile installation. Two (2) new Nortel S8000 equipment cabinets will be installed next to an existing T-Mobile Nortel S8000 equipment cabinet. A new five foot by ten foot (5' x 10') concrete pad would be installed adjacent to the existing cabinet to accommodate these new cabinets (see drawing attached as part of Exhibit B). The existing fenced compound surrounding the flagpole will not be altered in any way by the T-Mobile installation. Utilities will be run from those currently in place.

The planned modifications to the Manchester 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 T-Mobile's approved antennas on the tower and will not extend the boundaries of the existing compound area. The enclosed tower drawings confirm that the planned changes will not increase the overall height of the tower.
- 2. The installation of T-Mobile equipment, as reflected on the attached site plan, will not require an extension of the site boundaries.
- 3. The proposed modification to the facility will not increase the noise levels at the existing facility by six decibels or more. T-Mobile's equipment is self-contained and requires no additional heating, ventilation or cooling equipment.
- 4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the site boundary, to a level at or above the applicable standard. The "worst-case" RF power density calculations, for a point at the site boundary, are attached hereto as Exhibit E.

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

Thank you for your consideration of this matter.

Respectfully submitted,

OMNIPOINT COMMUNICATIONS, INC.

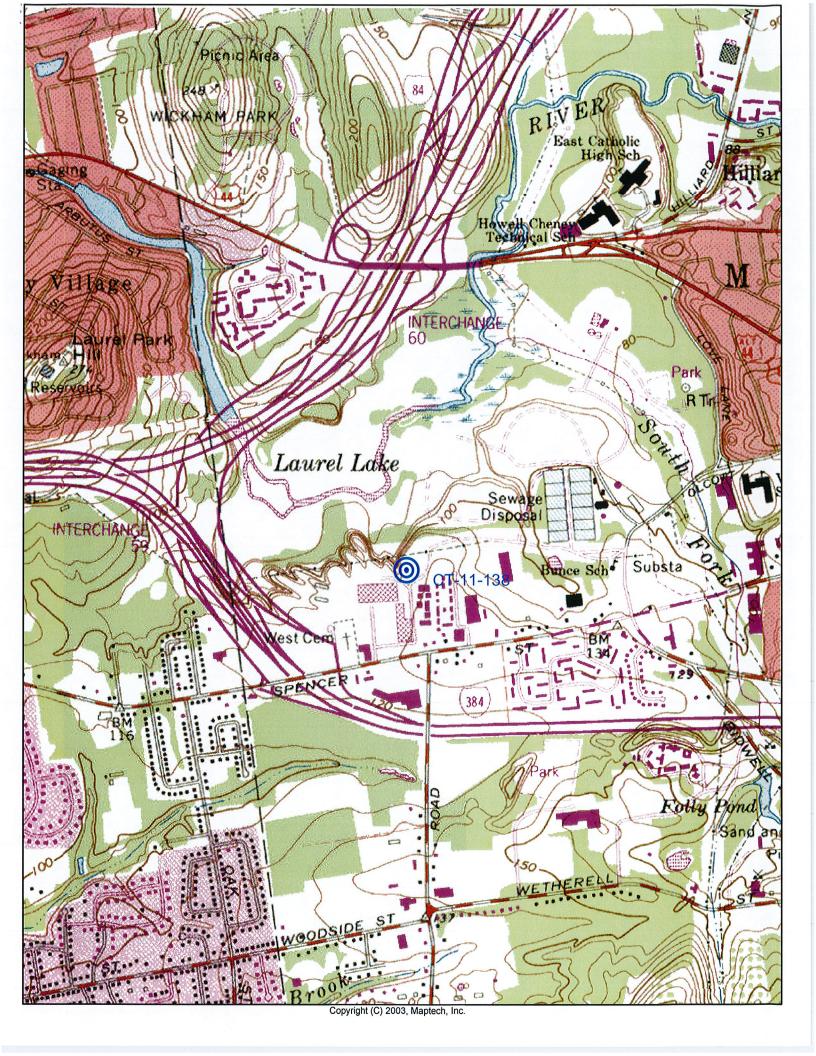
Its Counsel

Stephen J. Humes

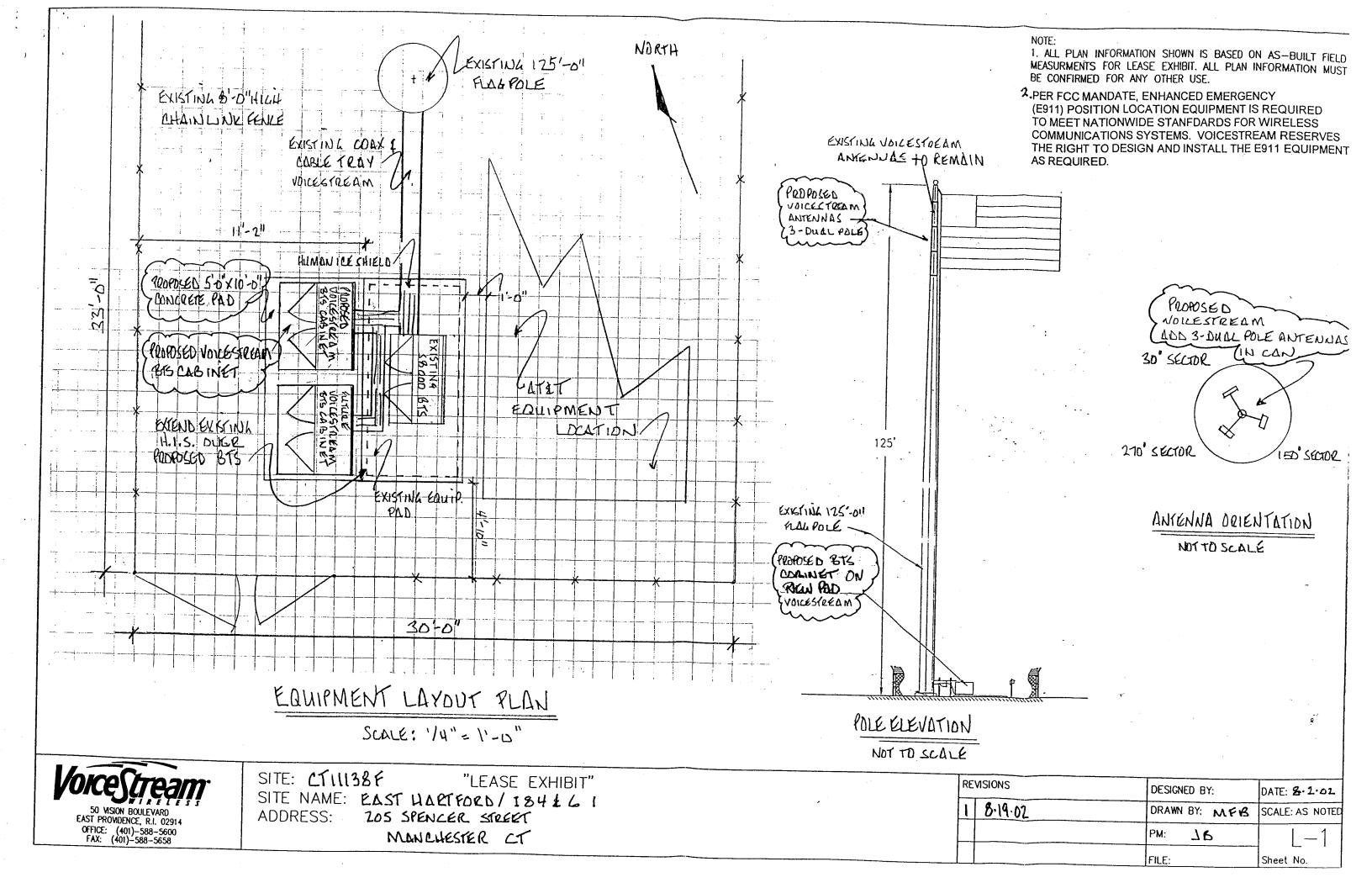
cc: Mayor Stephen T. Cassano

### Exhibit A

## Site Map 205 Spencer Street Manchester, Connecticut



# Exhibit B <u>Design Drawings</u> 205 Spencer Street Manchester, Connecticut



# Exhibit C Equipment Specifications 205 Spencer Street Manchester, Connecticut

#### RR90-17-XXDP

DualPol® Polarization 1850 MHz - 1990 MHz



Wireless

EMS

#### Electrical Specifications

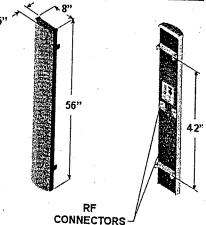
Azimuth Beamwidth
Elevation Beamwidth
Gain
Polarization
Port-to-Port Isolation
Front-to-Back Ratio
Electrical Downtilt Options
VSWR
Connectors
Power Handling

Lightning Protection

Passive Intermodulation

90°
6°
16.5 dBi (14.4 dBd)
Dual Linear Slant (± 45°)
≥ 30 dB
≥ 28 dB (≥ 30 dB Typ.)
0°, 2°, 4°, 6°
1.35:1 Max
2; 7-16 DIN (female)
250 Watts CW
≤ -150 dBc
[2 x 20 W (+ 43 dBm)]

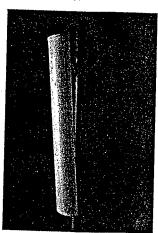
Chassis Ground



#### Mechanical Specifications

Dimensions (L x W x D)

Rated Wind Velocity Equivalent Flat Plate Area Front Wind Load @ 100 mph (161 kph) Side Wind Load @ 100 mph (161 kph) Weight 56 in x 8 in x 2.75 in (142 cm x 20.3 cm x 7.0 cm) 150 mph (241 km/hr) 3.1ft² (.29 m²) 90 lbs (400 N) 31lbs (139 N) 18 lbs (8.2 kg)

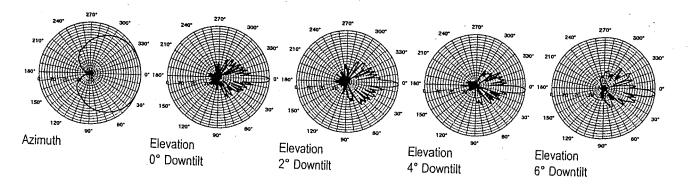


#### Mounting Options

MTG-P00-10, MTG-S02-10, MTG-DXX-20\*, MTG-CXX-10\*, MTG-C02-10, MTG-TXX-10\*

Note: \*Model number shown represents a series of products. See Mounting Options section for specific model number.

#### **Patterns**



Revised 04/05/02



## Mobile Wireless Introduction

Drawing from more than 30 years in the development of highly reliable systems, EMS Wireless has applied that knowledge and experience to the needs of commercial wireless communication service

EMS Wireless offers a broad selection of innovative base station antennas offering superior performance for all wireless protocols including PCS, cellular, GSM, CDMA, TDMA and IDEN among others. Mobile Wireless Products

### Frequency Bands:

- · PCS (1850-1990 MHz)
- · Cellular (806-960 MHz)
- Dualband (806-896 and 1850-1900 MHz) • CDMA 450 (450-470 MHz)
- GSM 900 (890-960 MHz)
- · GSM 1800 (1710-1880 MHz)
- · MMDS (2305-2360 MHz)

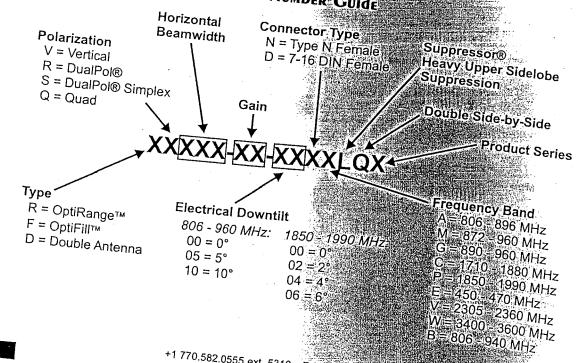
### Micro AcCELLerator™ Series:

- MTRR75-17-XXXDPL (PCS)
- MTFR90-11-XXXDAL2-CMX (Cellular)

### AcCELLerator™ Series:

- 16" AcCELLerator™
- 19" AcCELLerator™
- 30" AcCELLerator™
- 36" AcCELLerator™

## Mobile Wireless Standard Model Number Guide



#### 3 CABINET DESCRIPTION

#### 3.1 PHYSICAL CHARACTERISTICS

#### 3.1.1 S8000 Outdoor BTS

#### 3.1,1,1 BTS cabinet

#### Dimensions

The BTS S8000 Outdoor has the following dimensions:

- height: 160 cm (63 in.)
- width: 135 cm (52.8 in.)
- depth: 65 cm (25.6 in.)

#### Weight

The weight of the cabinet when empty, that is, without its battery, fan units or boards, is 164 kg (361 lb). Depending on the configuration, a fully equipped cabinet weighs approximately 480 kg (1056 lb) with ACU unit or 440 kg (968 lb) with DACS unit.

These weights do not include the plinth.

#### Operating temperature

To operate correctly, the BTS requires a temperature greater than -40°C (-40°F) and less than +50°C (+122°F).

#### Consumption

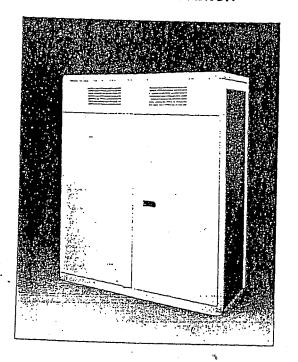
#### BTS input voltage:

- GSM 900/1800
  - nominal voltage contained between 220V AC and 240V AC
  - minimum voltage: 220 10% = 198V AC
  - maximum voltage: 240 + 6% = 254V AC
- GSM 1900 (with DACS)
  - nominal voltage: 208V AC to 240V AC NOW PREMIUM
  - minimum voltage: 208 10% = 187V AC
    - 0% = 187V AC BTS ONLY
  - maximum voltage: 240 + 6% = 254V AC
- GSM 1900 (with ACU and/or the power system six-rectifier type)
  - nominal voltage: 240V AC
  - minimum voltage: 240 10% = 187V AC
  - maximum voltage: 240 + 6% = 254V AC

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#### 58000 Outdoor Base Transceiver Station



Nortel's S8000 Outdoor Base Transceiver Station has been designed to meet the economic and performance requirements of network operators. Based on a highly integrated RF and digital design, the S8000 Outdoor Base Transceiver Station represents a major technology advancement and delivers all the benefits of a compact, modular, high quality and high performance product.

Nortel's 58000 Outdoor BTS: Radio Performance Leadership - Reduced Site Acquisition and Operating Costs

#### Installation

• The S8000 Outdoor Base Transceiver Station (BTS) offers compact packaging and requires minimal floor space, only .88 sq m (9.5 sq ft.). Front only access keeps total space required, including maintenance access, to only 1.8 sq m (19.4 sq ft.) per cabinet.

#### Transmission

- Integrated drop and insert connection to the Base Station Controller (BSC) and signaling concentration on the A-bis interface provide significant transmission cost reduction.
- Optional integrated digital microwave radio.

#### Maintenance

- Highly reliable technology, redundant architecture and integrated battery backup ensure high availability service.
- Front access and interconnections, as well as powerful fault detection, help reduce lifetime maintenance costs.

#### Industry leading performance

- New RF technology and advanced digital processing techniques provide very high receive sensitivity (-108 dBm guaranteed) and improved diversity gain (up to 6 dB). This provides higher resistance to interference, as well as, improved speech quality and cell coverage.
- Nortel's proven experience in frequency hopping, 1\*3 frequency reuse, sophisticated microcellular handover algorithms and support of half-rate vocoders enables the operator to maximize use of available spectrum and deploy fewer cell sites.

#### Fast network deployment

 The S8000 BTS can be shipped fully equipped and tested, which provides fast network roll out to meet operator time to market requirements.

#### Modular and flexible configuration

• The \$8000 supports eight transceivers (TRX) per cabinet in Omni and sectored configurations. The typical one cubinet \$222 configuration may be expanded up to \$332 or \$422 without an additional cabinet.

Frequency range		900 MHz GSM		
		900 MHz GSM extended		
		1800 MHz DCS		
		1900 MHz PCS		
Receive sensitivity (guaranteed)		-108 dBm		
Dimensions ·	Height	1600 mm / 5 ft. 3 in.		
	Width	1350 mm / 4 ft. 5 in.		
	Depth	650 mm / 2 ft. 1 in.		
Weight	Fully equipped	600 kg / 1300 lbs.		
Capacity		8 TRX per cabinet		
		up to 3 cabinets		
Configuration	Trisectorial	up to \$888		
	Omnidirectional	up to O16		
Amplifier output power	•	30 W (± 1.5 dB)		
Power control	Static	6 steps of 2 dB		
	Dynamic	15 steps of 2 dB		
Frequency hopping		RF synthesized		
		baseband		
Supported vocoders		1800 MHz DCS 1900 MHz PCS -108 dBm 1600 mm / 5 ft. 3 in. 1350 mm / 4 ft. 5 in. 630 mm / 2 ft. 1 in. 600 kg / 1300 lbs. 8 TRX per cabinet up to 3 cabinets up to S888 up to O16 30 W (± 1.5 dB) 6 steps of 2 dB 15 steps of 2 dB RF synthesized		
		Enhanced full rate		
		Half rate		
Encryption algorithms		A5/1 A5/2		
Power supply		230V AC 50/60 Hz		
Power back-up		cabinet allows provisioning up to 8 hours		
Operating temperature range				
		-40°F to +122°F		

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\*Nortel and A World of Nenvorks are trademarks of Northern Telecom Limited.

Information subject to change. Northern Telecom reserves the right to make changes, without notice, in equipment design as engineering or manufacturing methods warrant.

NERTEL ORTHERN TELECOM For more information.
please contact your local Nortel account representative.

In the USA:
Northern Telecom
2221 Lakeside Boulevard
Richardson TX 75082
USA
Telephone: 1-800-4 NORTEL
1-800-466-7838 or (214) 684-5935 http://www.nortel.com/wireless

In Canada: Northern Telecom 2920 Matheson Boulevard East Mississauga ON L4W 4M7 Canada Telephone: 1-800-4 NORTEL

In the Caribbean and Latin America: Northern Telecom (CALA) Corporation 1500 Concord Terrace Sunrise FL 33323 USA Telephone: (305) 851-8400

In Asia: Northern Telecom (Asia) Limited 151 Lorong Chuan #02-01 New Tech Park Singapore 1955 Telephone: (65) 287-2877 Nortel China Ltd. 34th Floor, Central Plaza 18 Harbour Road, Wanchai Hong Kong Telephone (852) 2585 2888

In Europe: Nortel Limited Stafferton Way Maidenhead Berkshire SL6 IAY England Telephone: (44) (1628) 812000

Nortel Matra Cellular BP 50 1 place des Frères Montgolfier 78042 Guyancourt Cedex France Telephone (33) (1) 34 52 52 52

Nortel Europe 12-12bis rue Jean Jaures 92807 Puteaux France Telephone (33) (1) 46 96 15 15

# Exhibit D Structural Analysis 205 Spencer Street Manchester, Connecticut

E-mail address: westcottmapes@compuserve.com



June 11, 2003

Mr. Bryan Bakis, PE T-Mobile USA (Omnipoint Communications, Inc.) 100 Filley Street Bloomfield, CT 06002

RE:

Site CT11-138F Manchester Flag Pole

W&M #02125.50

Dear Bryan:

We have completed the Structural Analysis for the above mentioned project.

A review of the information provided by the monopole manufacturer has determined that the structure is capable to support three (3) additional T-Mobile antennas to be located in the canister directly below their existing antennas.

Please do not hesitate to contact me with any questions or comments.

Very truly yours,

WESTCOTT AND MAPES, ING

Marseglia, P.E. Vice President, Engineering

cc:

M. Egan, W&M

D. Overbey, T-Mobile

M. Walker, T-Mobile

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## Exhibit E Power Density Calculations 205 Spencer Street Manchester, Connecticut



T-Mobile USA Inc.

100 Filley St, Bloomfield, CT 06002-1853

Phone: (860) 692-7100 Fax: (860) 692-7159

#### **Technical Memo**

To: Marie Burbank

From: Hassan Syed - Radio Frequency Engineer

cc: Jason Overbey

Subject: Power Density Report for CT11138

Date: June 24, 2003

#### 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 205 Spencer Street, Manchester, 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 2 antennas per sector.
- 3) The model number for each antenna is EMS RR90-17-02DP.
- 4) The antenna center line height are 109 ft. 119 ft.
- 5) The maximum transmit power from any sector is 1404.07 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 205 Spencer Street, Manchester, CT, is 0.02904 mW/cm^2. This value represents 2.904% of the Maximum Permissible Emission (MPE) standard of 1 milliwatt per square centimeter (mW/cm^2) 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 3.23%. The combined Power Density for the site is 6.134% of the M.P.E. standard.

New England Market	<b>m</b>		
Connecticut	<b>T</b> • • Mobile •		
Worst Case Power Density			
Site:	CT11138		
Site Address:	205 Spencer Street		
Town:	Manchester		
Tower Height:	125 ft.		
Tower Style:	Monopole		
Base Station TX output	• • • • • • • • • • • • • • • • • • •		
Number of channels			
Antenna Model	EMS RR90-17-02DP		
Cable Size	1 5/8 in.		
Cable Length	130 ft.		
Antenna Height	109.0 ft.		
Ground Reflection			
Frequency	•		
Jumper & Connector loss			
Antenna Gain	, -, -, -, -, -, -, -, -, -, -, -, -, -,		
Cable Loss per foot	•		
Total Cable Loss			
Total Attenuation			
Total EIRP per Channel			
(In Watts)			
Total EIRP per Sector			
(In Watts)			
nsg			
Power Density (S) =	0.066368 mW/cm^2		
Voicestream Worst Case % MPE =	6.6368%		
Equation Used : $S = \frac{(1000)(grf)^2(Power)^*10^{(rsg10)}}{4\pi\left(R\right)^2}$ Office of Engineering and Technology (Oil	ET) Bulletin 65, Edition 97-01, August 1997		

Total	
% of Standard	
3.2300 %	
3.2300 %	
6.6368 9.8689/	
	3.2300 % 3.2300 %

## n of Manchester

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S. Derek Phelps, Executive Director State of Connecticut Connecticut Siting Council Ten Franklin Square New Britain, Connecticut 06051 JUL 2 3 2003

CONNECTICUT
SITING COUNCIL

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Thank you very much for your attention to this matter.

Very truly yours,

Thomas R. O'Marra

Zoning Enforcement Officer

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## Town of Manchester

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STEVEN R. WERBNER, GENERAL MANAGER

July 21, 2003

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Re: EM-T-Mobile-077-030702 – Omnipoint Communications, Inc. 205 Spencer Street, Manchester, Connecticut

Dear Mr. Phelps:

Thank you for the opportunity to comment with regards to the subject application. As in the past with sharing arrangements, the Town of Manchester would request that all equipment cabinets be painted to match the colors of the existing cabinets. Our understanding is that the existing cabinets are required to be beige in accordance with the original approval granted by the Manchester Planning and Zoning Commission.

Thank you very much for your attention to this matter.

Very truly yours,

Thomas R. O'Marra

**Zoning Enforcement Officer** 

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