



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

October 23, 2000

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

J. Brendan Sharkey, Esq.
VoiceStream Wireless Corporation
100 Filley Street
Bloomfield, CT 06002

RE: **TS-VOICESTREAM-036-001010** - VoiceStream Wireless Corporation request for an order to approve tower sharing at an existing telecommunications facility located at 220 Winthrop Road, Deep River, Connecticut.

Dear Attorney Sharkey:

At a public meeting held October 19, 2000, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. 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 may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated October 10, 2000 and corrected material received October 18, 2000.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Richard H. Smith, First Selectman, Town of Deep River
Ronald C. Clark, Nextel Communications



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

October 12, 2000

Honorable Richard H. Smith
First Selectman
Town of Deep River
Town Hall
174 Main Street
Deep River, CT 06417

RE: **TS-VOICESTREAM-036-001010** - VoiceStream Wireless Corporation request for an order to approve tower sharing at an existing telecommunications facility located at 220 Winthrop Road, Deep River, Connecticut.

Dear Mr. Smith:

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 October 19, 2000, at 2:00 p.m. in Hearing Room Two, 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,

A handwritten signature in black ink, appearing to read "Joel M. Rinebold".

Joel M. Rinebold
Executive Director

JMR/RKE/laf

Enclosure: Notice of Tower Sharing

CORRECTED PAGE

100 Filley Street, Bloomfield, CT 06002
(860) 692-7154 phone
(860) 692-7159 fax

10 October, 2000

Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED

OCT 18 2000

CONNECTICUT
SITING COUNCIL

**Re: Request by VoiceStream Communications, Inc.
for an Order to Approve the Shared Use of a Tower Facility
220 Winthrop Road, Deep River, Connecticut**

Dear Chairman Gelston and Members of the Council:

Pursuant to Connecticut General Statutes §16-50aa, VoiceStream Wireless Corporation ("VoiceStream") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use of an existing monopole tower located at 220 Winthrop Road in Deep River, Connecticut. The tower is owned and operated by Nextel Communications ("Nextel"). VoiceStream proposes to install antennas on the existing tower located within Nextel's leased compound area, and to install related equipment near the base of the tower within the existing compound (see "Exhibit A"). VoiceStream requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in §16-50aa and issue an order approving the proposed use.

Background

VoiceStream 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.

The Nextel tower at 220 Winthrop Road in Deep River was approved by the Deep River Planning and Zoning Commission and is a 180-foot monopole located on an approximately 50' x 50', or 2,500 sq. ft. compound. The coordinates for this location are 41-21-05 N and 72-28-29 W. Nextel currently has its antennas installed with centerlines at 180 feet above ground level ("AGL"). VoiceStream and Nextel have agreed to mutually acceptable terms and conditions for the proposed shared use of this tower, and Nextel has authorized VoiceStream to act on its behalf to apply for all necessary local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of this facility.

As shown on the site plan drawings and tower elevations attached as Exhibit A, VoiceStream proposes to install a total of six antennas, two per sector, with centerlines at 160 feet AGL. The antennas are EMS RR90-1702 DP. The radio transmission equipment associated with these antennas, a Nortel S8000 cabinet, would be mounted on a concrete slab at the base of the pole.

10 October, 2000

Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED

OCT 10 2000

CONNECTICUT
SITING COUNCIL

**Re: Request by VoiceStream Communications, Inc.
for an Order to Approve the Shared Use of a Tower Facility
220 Winthrop Road, Deep River, Connecticut**

Dear Chairman Gelston and Members of the Council:

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220 Winthrop Road, Deep River

Page 2

C.G.S. §16-50aa (c) (1) provides that, upon written request for approval of a proposed shared use, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use." The shared use of the tower satisfies those criteria as follows:

A. Technical Feasibility - The existing tower was designed to accommodate multiple carriers, and VoiceStream is the second carrier to propose co-location. As the structural analysis attached as Exhibit C indicates, the tower is structurally sound and capable of supporting the proposed antennas. The proposed shared use of this tower therefore is technically feasible.

B. Legal Feasibility - Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility such as the facility on Winthrop Road in Deep River. (Public Acts 93-268, Section 2; and 94-242, Section 6 (c)). This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. C.G.S. § 16-50x (a) vests exclusive jurisdiction over these facilities in the Council, which shall "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing towers facilities. Under this statutory authority vested in the Council, an order by the Council approving the shared use would permit the applicant to obtain a building permit for the proposed installations.

C. Environmental Feasibility - The proposed shared use would have a minimal environmental effect, for the following reasons:

1. The proposed installations would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. In particular, the proposed installations would not increase the height of the existing tower, and would not extend the boundaries of the existing Nextel compound area.
2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the American National Standards Institute ("ANSI"). The "worst-case" exposure calculated for operation of this facility (i.e., calculated at the base of the tower, which represents the closest publicly accessible point within the broadcast field of the antennas), with the Nextel and VoiceStream antennas, would be 3.3448% of the ANSI standard). These calculations are attached as Exhibit D.

220 Winthrop Road, Deep River

Page 3

4. The proposed installations would not require any water or sanitary facilities, or generate air emissions or discharges to water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete (approximately two weeks), the proposed installations would not generate any traffic other than for periodic maintenance visits.

The proposed use of this facility would therefore have a minimal environmental effect, and is environmentally feasible.

E. Economic Feasibility - As previously mentioned, VoiceStream has entered into an agreement with Nextel to share the use of the existing tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

F. Public Safety Concerns - As stated above, the existing tower is structurally capable of supporting the proposed VoiceStream antennas. The tower stands on a raw land compound at a transfer station on Winthrop Road. The size and location of the tower have also been approved by the Deep River Planning and Zoning Commission which considered public health and safety in its review. VoiceStream is not aware of any other public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or improved phone service through shared use of the existing tower is expected to enhance the safety and welfare of area residents and travelers.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower facility at 220 Winthrop Road in Deep River, Connecticut satisfies the criteria stated in C.G.S. §16-50aa, and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in Connecticut. VoiceStream therefore request that the Siting Council issue an order approving the proposed shared use.

Thank you for your consideration of this matter.

Sincerely,



J. Brendan Sharkey, Esq.
for VoiceStream Communications, Inc.

Attachments

cc: Richard H. Smith, First Selectman

Exhibit A

Design Drawings
220 Winthrop Road
Deep River, CT



**STRUCTURAL
MECHANICS
ASSOCIATES**

CT-11-408-A

20 Fawn Ridge Drive, Brookfield, CT. 06804 (203) 775-0232

September 25, 2000

SCIENTECH, Inc.
44 Shelter Rock Road
Danbury, CT 06810

Attention: Mr. Thomas Keenan

Subject: Structural On-site Inspection, Review/Evaluation and Certification of VoiceStream Antennas Mounting At Elevation 160' on the Existing 180' high Monopole at 220 Winthrop Road (Transfer Station), Deep River, CT, CT-11-408A. SCIENTECH PROJECT NO. 17193-0013.

References: 1) Valmont' Project Drawings for Valmont Order # 17593-98
2) Towercraft Foundation Dwg. No. 2633-F and Tectonic Geotechnical Evaluation Report
3) Nextel Site Number 'CT-0750' Dwgs.

Dear Mr. Keenan:

I have performed the site inspection and structural review/evaluation of the drawings furnished to us by VoiceStream, for the subject installation. Valmont project drawing number DC4725Z, indicates that the existing tower has been designed per ANSI/TIA/EIA-222-F, 1996 Code design requirements for the following tower loading:

1. (1) Lightning Rod @ elevation 180'
2. (12)-ALP 9212-N antennas and (1) 9' platform assembly @ 177' elevation
3. (12)-ALP 9212-N antennas and (1) 9' platform assembly @ 170' elevation
4. (12)-ALP 9212-N antennas and (1) 9' platform assembly @ 160' elevation
5. (12)-ALP 9212-N antennas and (1) 9' platform assembly @ 150' elevation

The design assumes (12) 1 5/8" feedline for the antennas.



**STRUCTURAL
MECHANICS
ASSOCIATES**

20 Fawn Ridge Drive, Brookfield, CT. 06804 (203) 775-0232

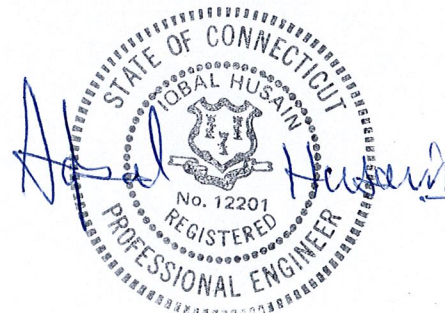
VoiceStream proposes to install (6) EMS RR90-17-02_DP antennas at 160' elevation on (3) sector antenna mounts. The design dead weight and wind load imposed by the proposed (6) EMS RR90-17-02_DP antennas at 160' elevation, is less than the (12) ALP 9212-N antennas and platform at 160' elevation, for which the Valmont Monopole and its foundation have been designed. Therefore, it can be concluded that the existing Valmont Monopole and its foundation design are adequate to withstand the loads imposed by the proposed VoiceStream antenna installation. It should be noted that this conclusion is based on the assumption that the existing monopole and its foundation have been designed and built correctly by other vendors. It should further be noted that VoiceStream furnished us Reference 1 and 3 drawings only. Currently there are Nextel antennas at ~180' elevation and Sprint plans to put antennas at 170' elevation. In our evaluation, it is assumed that the dead weight and wind loadings for these Nextel and Sprint antennas are less than that for which the Valmont monopole and its foundation have been designed. Design calculations for the monopole and foundation design drawings were not furnished to us. SCIENTECH obtained monopole foundation drawing (Reference 2) from Valmont. Our discussion with Valmont engineers indicated that Towercraft modified the foundation design at the site, and is certified by Dr. Dennis Lee. The foundation design should therefore be assumed correct. The monopole design drawings were not certified by a Connecticut Professional Engineer (P.E.).

Please do not hesitate to call the undersigned if you have any questions or require additional information. We appreciate the opportunity to be of service to SCIENTECH/VoiceStream.

Sincerely,

STRUCTURAL MECHANICS ASSOCIATES OF CONNECTICUT, INC.


Iqbal Husain, P.E.
President



9-25-2000

Voicestream
WIRELESS

100 HILLET ST.
BLOOMFIELD, CT. 06002
PHONE: (860) 862-1100
FAX: (860) 862-1101

PROJECT INFORMATION:

DEEP RIVER
CT-11-408A
220 WINTHROP ROAD
DEEP RIVER, CT. 06417
MIDDLESEX COUNTY

CURRENT ISSUE DATE:

09/25/00

ISSUED FOR:

LEASE EXHIBIT

REV. DATE DESCRIPTION BY:

REV.	DATE	DESCRIPTION	BY
A	10/14/00	REVISED PER MARK UP	KT
A	04/25/00	ISSUED FOR LEASE EXHIBIT	RC

PLANS PREPARED BY:

SCIENTECH.

44 SHELTER ROCK RD.
DANBURY, CT 06810
TEL: 203-746-5500
FAX: 203-746-5572

APPROVALS:

PROPERTY OWNER _____
ZONING _____
CONSTRUCTION _____
OPERATIONS _____
RF _____
NETWORK _____
CONTRACTOR _____

DRAWN BY: _____ CHK: _____ APV: _____

AD _____ RC _____ SC _____

LICENSE: _____

SHEET TITLE:

ELEVATION

SHEET NUMBER: _____ REVISION: _____

L2

B

17149-001B

⊕ NEXTEL ANTENNA
EL = 180'-0"

⊕ VOICESTREAM ANTENNA
EL = 160'-0"

(6) EMS RR90-17-02DP ANTENNAS
W/(6)AIRTECH PCS 1900 HMA
AMPLIFIERS ON (3) MTS MT-197
36" SUPPORT ARMS

(E) 180' MONOPOLE

(E) EQUIP. SHELTER

(E) ICE BRIDGE

(E) METER BANK

(E) 6' CHAIN LINK FENCE

⊕ GRADE
EL = 0'-0"

NOTES:

1. DIAMETER OF POLE AT ⊕ VS ANTENNA $\phi = 2'-6"$

VoiceStream
WIRELESS

100 HULLY ST.
BLOOMFIELD, CT. 06002
TEL: 203-860-5000
FAX: 203-860-5001

PROJECT INFORMATION:

DEEP RIVER
CT-11-408A
230 WINTHROP
DEEP RIVER, CT. 06411
MIDDLESEX

CURRENT ISSUE DATE:

09/25/00

ISSUED FOR:

LEASE EXHIBIT

REV./DATE/DESCRIPTION

REV.	DATE	DESCRIPTION	BY

ISSUED FOR
LEASE EXHIBIT
RC

PLANS PREPARED BY:

SCIENTECH.

44 SHELTER ROCK RD.
DANBURY, CT 06810
TEL: 203-746-5900
FAX: 203-746-5272

APPROVALS:

PROPERTY OWNER
ZONING
CONSTRUCTION
OPERATIONS
RF
NETWORK
CONTRACTOR

DRAWN BY: CHK: APV:

AD RC SC

LICENSE:

SHEET TITLE:

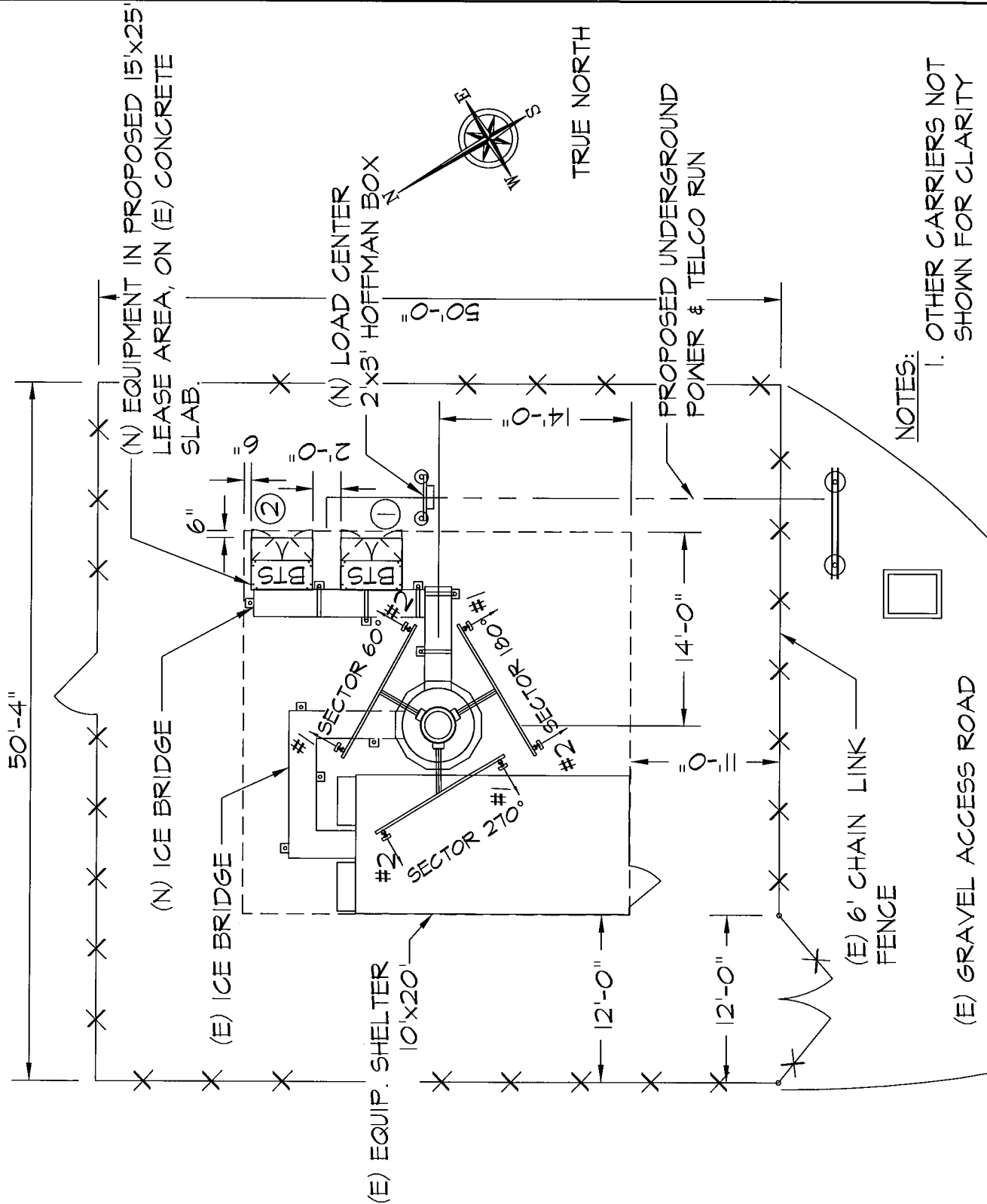
SITE PLAN

SHEET NUMBER: REVISION:

L1

A

11193-0013



NOTES:

1. OTHER CARRIERS NOT SHOWN FOR CLARITY

Technical Memo

To: Brendan Sharkey
From: Haider Syed (Radio Engineering Consultant)
cc: Mike Fulton
Subject: Power Density Report for CT11408
Date: 10/6/00

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the proposed VoiceStream Wireless PCS antenna installation on Tower at 220 Winthrop Rd, Deep River CT. This study incorporates the most conservative considerations for determining the practical combined worst case power density levels that would be theoretically encountered from several locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from the Voicestream transmitters are in the 1930-1945 MHz frequency band.
- 2) The antenna cluster consists of three sectors, with two antennas per sector. The model number for each antenna is EMS RR90 17 02 DP
- 3) The antenna height is 160 feet centerline.
- 4) The maximum transmit power from each sector is 1802.56Watts Effective Isotropic Radiated Power (EiRP) assuming four channel capacity.
- 5) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 6) 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.
- 7) The average ground level of the studied area does not significantly change 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 worse case assumptions, the power density calculations from the proposed VoiceStream Wireless, PCS antenna installation at 220 Winthrop Rd in Deep River, CT is 0.015448 mw/cm^2 . This value represents only 1.5448% of the Maximum Permissible Emission (MPE) standard of 1000 microwatts per square centimeter ($\mu\text{w/cm}^2$) set forth in the FCC/ANSI/IEEE C95.1-1991. The combined Power Density with Nextel will be 3.3448 % of the standard. Details are shown in the attachment. Furthermore, the proposed antenna location for VoiceStream Wireless will not interfere with existing public safety telecommunications, AM band and FM band radio broadcast, TV, Police Communication, HAM Radio communications and other signals in the area.

Worst Case Power Density for Antenna installation on Tower at 220 Winthrop, CT

Region 11 - Connecticut	
Power Density Calculation - Worst Case	
Base Station TX output	20 W
Number of channels	4
Antenna Model	EMS: RR-90-17/ RV-90-17
Antenna Gain	16.5 dBi
Cable Size	1 5/8"
Cable Length	170 ft
Jumper & Connector loss	1 dB
Cable Loss per foot	0.0116
Total Cable Loss	1.972 dB
Total Attenuation	2.972 dB
Total EIRP per channel	56.54 dB
Total EIRP per sector	62.56 dB
Ground Reflection	1.6
Frequency	1930 MHz
Antenna Height	160 ft
ms9	13.528
Power Density (S) =	0.015448 mW / cm ²
% MPE =	1.5448%

* % MPE for Nextel = 1.8%
 Total % MPE with Voicestream = 3.3448%

Equation Used :

$$S = \frac{(1000)(grf)^2 (Power) * 10^{(10)}}{4\pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

* 0.46 % submitted previously

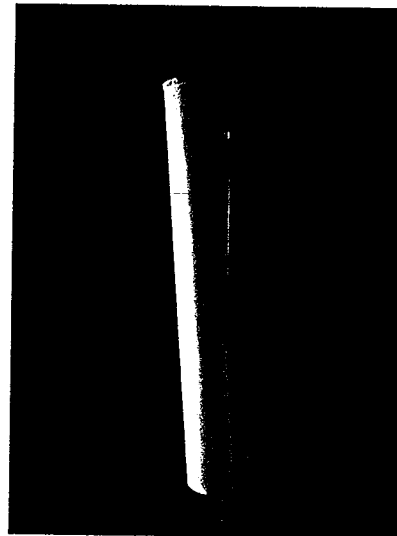
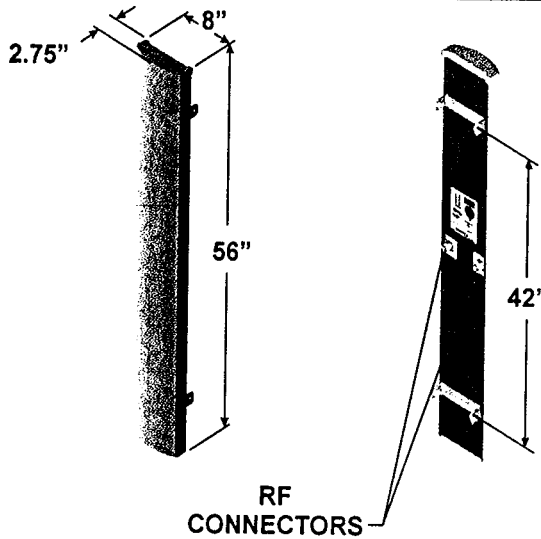
Exhibit B

Equipment Specifications

220 Winthrop Road

Deep River, CT

1850 MHz - 1990 MHz (P)



90° beamwidth

16.5 dBi gain

**±45°
DualPol™**

56 inch

SPECIFICATIONS

Electrical

Azimuth Beamwidth	90°
Elevation Beamwidth	6°
Gain	16.5 dBi (14.4 dBd)
Polarization	Slant, ±45°
Port-to-Port Isolation	≥ 30 dB
Front-to-Back Ratio	≥ 25 dB (≥ 30 dB Typ.)
Electrical Downtilt Options	0°, 2°, 4°, 6°
VSWR	1.35:1 Max
Connectors	2; Type N or 7-16 DIN (female)
Power Handling	250 Watts CW
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm {20W} ea.)
Lightning Protection	Chassis Ground

Mechanical

Dimensions (L x W x D)	56in x 8in x 2.75in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1ft ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg)

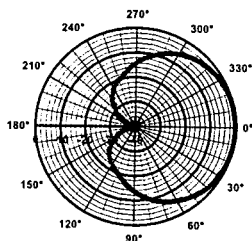
Note: Patent Pending and US Patent number 5, 757, 246.

Values and patterns are representative and variations may occur. Specifications may change without notice due to continuous product enhancements. Digitized pattern data is available from the factory or via the web site www.emswireless.com and reflect all updates.

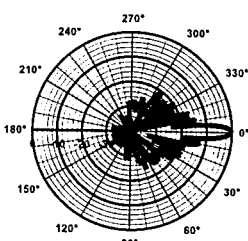
MOUNTING OPTIONS

Model Number	Description	Comments
MTG-P00-10	Standard Mount (Supplied with antenna)	Mounts to Wall or 1.5 inch to 5.0 inch O.D. Pole (3.8 cm to 12.7 cm)
MTG-S02-10	Swivel Mount	Mounting kit providing azimuth adjustment.
MTG-DXX-20*	Mechanical Downtilt Kits	0° - 10° or 0° - 15° Mechanical Downtilt
MTG-CXX-10*	Cluster Mount Kits	3 antennas 120° apart or 2 antennas 180° apart
MTG-C02-10	U-Bolt Cluster Mount Kit	3 antennas 120° apart, 4.5" O.D. pole.
MTG-TXX-10*	Steel Band Mount	Pole diameters 7.5" - 45"

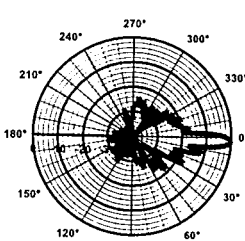
* Model number shown represents a series of products. See mounting options section for specific model number.



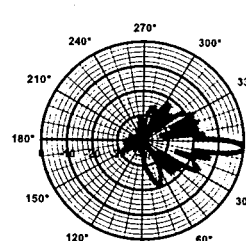
Azimuth



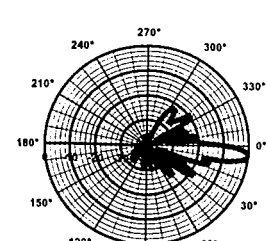
Elevation
0° Downtilt



Elevation
2° Downtilt



Elevation
4° Downtilt

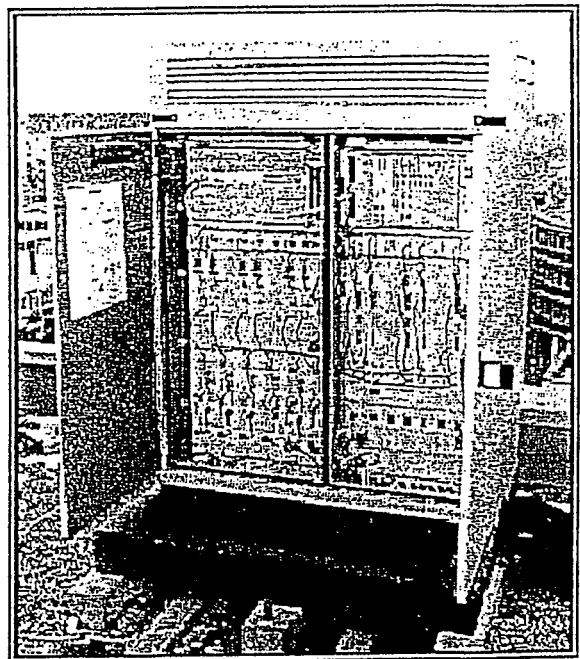
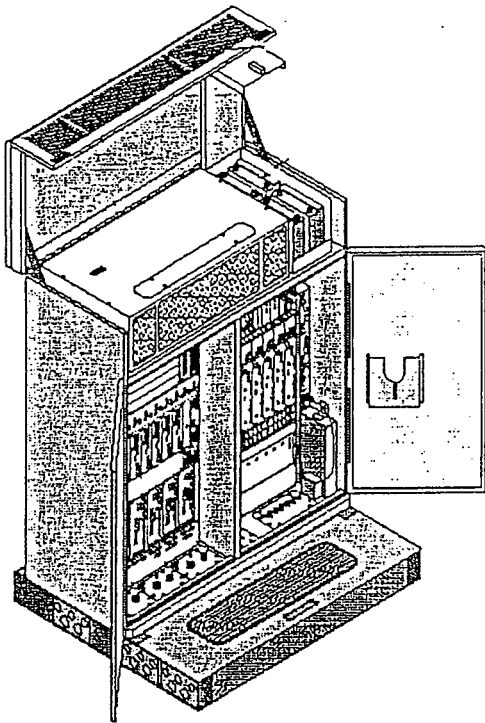


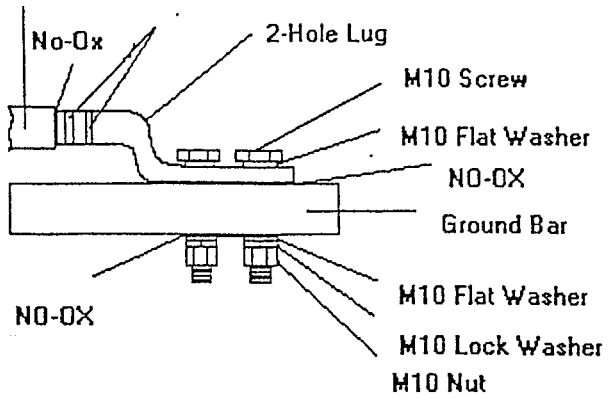
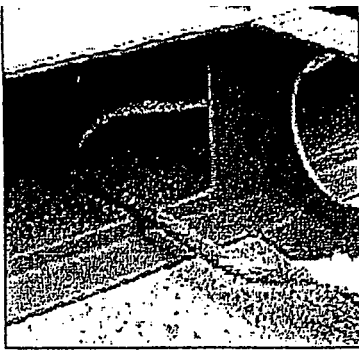
Elevation
6° Downtilt

NORTEL
NETWORKS™

S8000 BTS

Site Specifications





Apply a light coating of No Oxidation (NO-OX) to the ground bar area.

Dimensions, Weights & Clearances

BTS

Weight: 915 pounds
 Dimensions: 53.2"W x 26"D x 63"H

Clearances while transporting in building:

Door Access:

Height: 6.6 feet
 Width 3 feet

Corridor Access:

Height: 6.6 feet
 Width: 3.6 feet (straight), 6.6 feet (right angle)

Clearances when installed:

Above: 28 inches for opening of hood
 Rear: 8 inches for installation of outer skin
 Sides: 8 inches for adjustment of door hinges
 Front: 54 inches to open door and technician access

Plinth

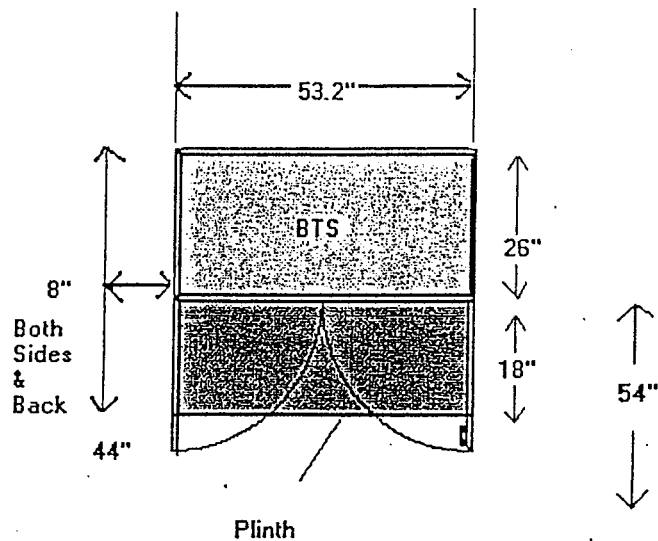
Weight:
 87 pounds

Dimensions:
 53.2"W x 44"D x 10.2"H

Floor Characteristics

Minimum Floor Resistance:
 123 pounds/foot²

Flatness:
 ¼ inch over 78 inches



Electrical Specifications

Split Single-Phase

3 wires plus ground

L1: Black 6 gauge

L2: Red 6 gauge

Neutral: White 6 gauge

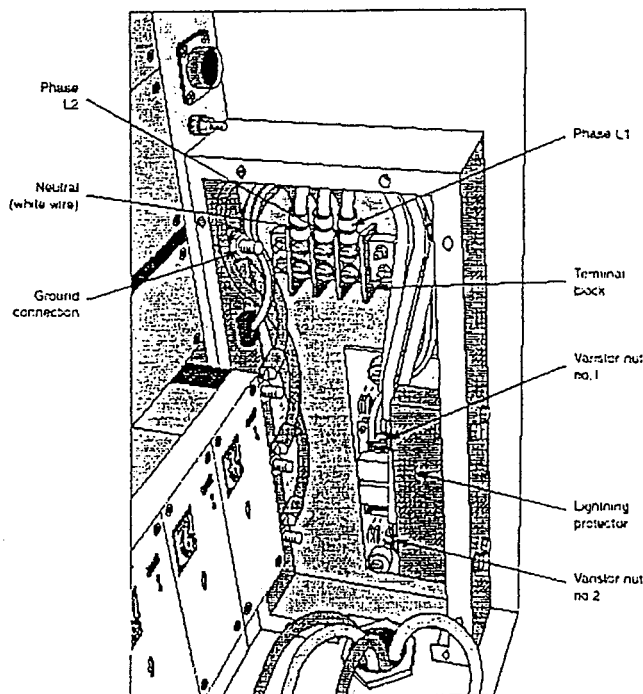
Ground: Yellow/Green 6 gauge

Maximum distance between AC box and BTS: 105 feet

187 ~ 254 VAC between L1 and L2

99 ~ 127 VAC between Neutral and L1 or L2

45 ~ 65 Hertz



AC connection to BTS located at the front, lower, right-hand side of BTS

Circuit Breaker in AC Box

Up to 4 transmitters

30 A, bipolar, C curve

5 or more transmitters

40A, bipolar, C curve

BTS to Ground connection

Minimum 2 AWG, run in most direct route as possible towards true earth, minimizing bends. No bend shall be less than 90 degrees.

Exhibit C

Structural Analysis
220 Winthrop Road
Deep River, CT

Exhibit C

Structural Analysis
220 Winthrop Road
Deep River, CT

Exhibit D

Power Density Calculations

220 Winthrop Road

Deep River, CT