

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

June 28, 2002

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **EM-AT&T-042-020531** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 94 East High Street, East Hampton, Connecticut.

Dear Attorney Fisher:

At a public meeting held on June 25, 2002, 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.

The proposed modifications are to be implemented as specified here and in your notice received May 31, 2002. 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,


Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Donald Markham, Chairman Town Council, Town of East Hampton
James Carey, Zoning Enforcement Officer, Town of East Hampton
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC
Sandy M. Carter, Verizon Wireless
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene, & MacRae

**NOTICE OF INTENT TO MODIFY AN
EXISTING TELECOMMUNICATIONS FACILITY AT
94 EAST HIGH STREET, EAST HAMPTON, CONNECTICUT**

Pursuant to the Public Utility Environmental Standards Act, Connecticut General Statutes § 16-50g et. seq. ("PUESA"), and Sections 16-50j-72(b) of the Regulations of Connecticut State Agencies adopted pursuant to the PUESA, AT&T Wireless PCS, LLC d/b/a AT&T Wireless ("AT&T Wireless") hereby notifies the Connecticut Siting Council of its intent to modify an existing facility located at 94 East High Street, East Hampton, Connecticut (the "East High Street Facility"), owned by Sprint Sites USA ("Sprint"). AT&T Wireless and Sprint have agreed to share the use of the East High Street Facility, as detailed below.

The East High Street Facility

The East High Street Facility consists of an approximately one hundred twenty (120) foot monopole (the "Tower") and associated equipment currently being used for wireless communications by Verizon, Sprint, VoiceStream and the municipality. A chain link fence surrounds the Tower compound. The current surrounding land uses include a mix of residential and commercial uses.

AT&T Wireless' Facility

As shown on the enclosed plans prepared by URS Corporation, including a site plan and tower elevation of the East High Street Facility, AT&T Wireless proposes shared use of the Facility by placing antennas on the Tower and equipment cabinets needed to provide personal communications services ("PCS") within an expanded fenced compound. AT&T Wireless will install 6 panel antennas at approximately the 120 foot level of the Tower and associated equipment cabinets (2 proposed, 2 future, each 76"H x 30" W x 30" D) on a concrete pad within a de minimus expansion of the fenced compound. The existing tower site boundaries will not be expanded. As evidenced in the letter of structural integrity prepared by URS Corporation, annexed hereto as Exhibit A, AT&T has confirmed that the tower is structurally capable of supporting the addition of AT&T Wireless' antennas.

AT&T Wireless' Facility Constitutes An Exempt Modification

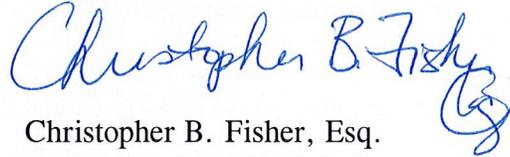
The proposed addition of AT&T Wireless' antennas and equipment to the East High Street Facility constitutes an exempt "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d) and Council regulations promulgated pursuant thereto. Addition of AT&T Wireless' antennas and equipment to the Tower will not result in an increase of the Tower's height nor extend the site boundaries. Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. As set forth in an Emissions Report prepared by Nader Soliman, Radio Frequency Engineer, annexed hereto as Exhibit B, the total radio

frequency electromagnetic radiation power density at the Tower site's boundary will not be increased to or above the standard adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and MPE limits established by the Federal Communications Commission. For all the foregoing reasons, addition of AT&T Wireless' facility to the Tower constitutes an exempt modification which will not have a substantially adverse environmental effect.

Conclusion

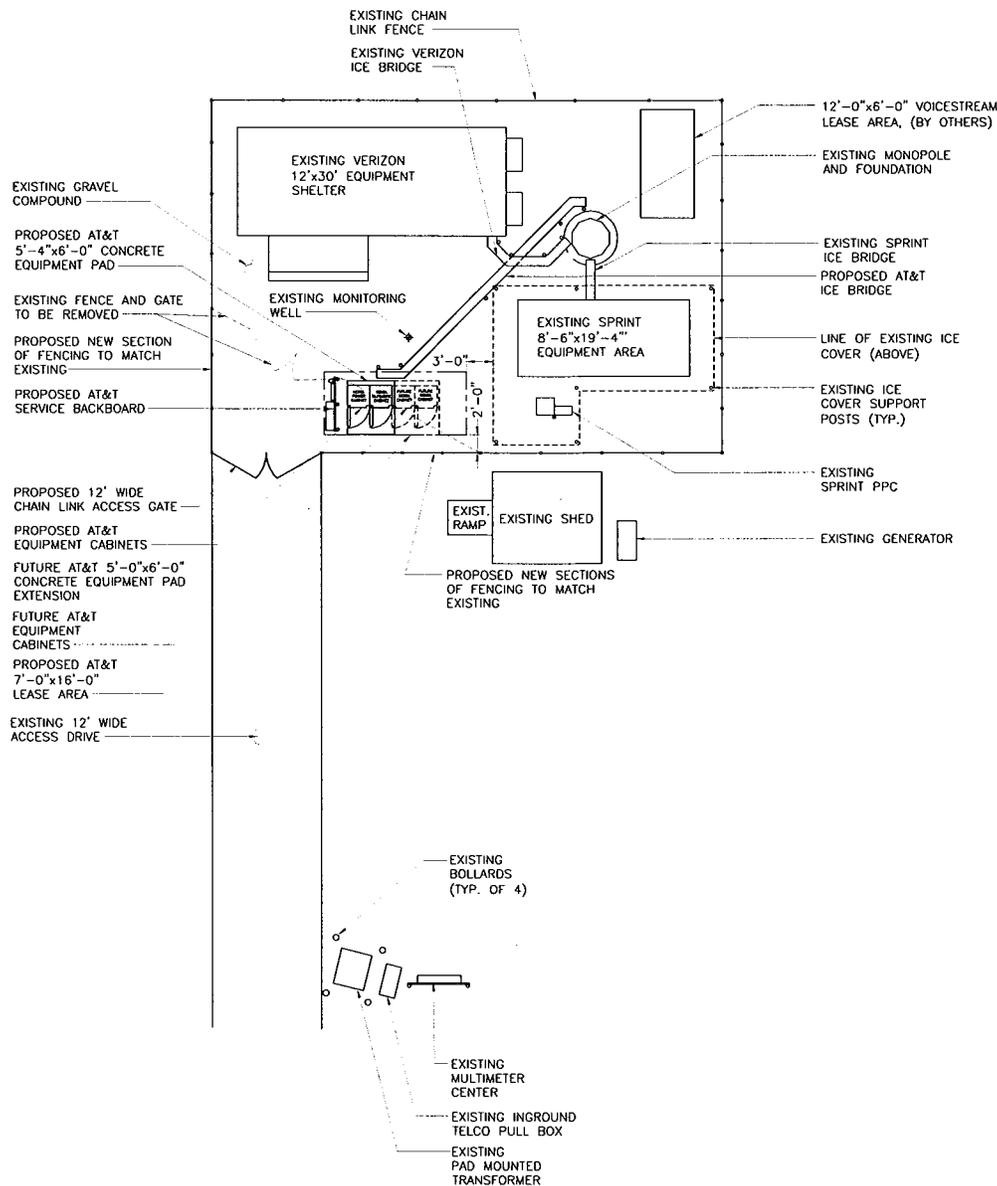
Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the East High Street Facility meets the Council's exemption criteria.

Respectfully Submitted,

A handwritten signature in blue ink that reads "Christopher B. Fisher". The signature is written in a cursive style and includes a small circular mark at the end.

Christopher B. Fisher, Esq.
On behalf of AT&T Wireless

cc: Town Manager, Town of East Hampton
Joanne Desjardins, Pinnacle



1 COMPOUND PLAN
SC-1 SCALE: 1" = 20'-0"



ISSUED FOR SITING COUNCIL

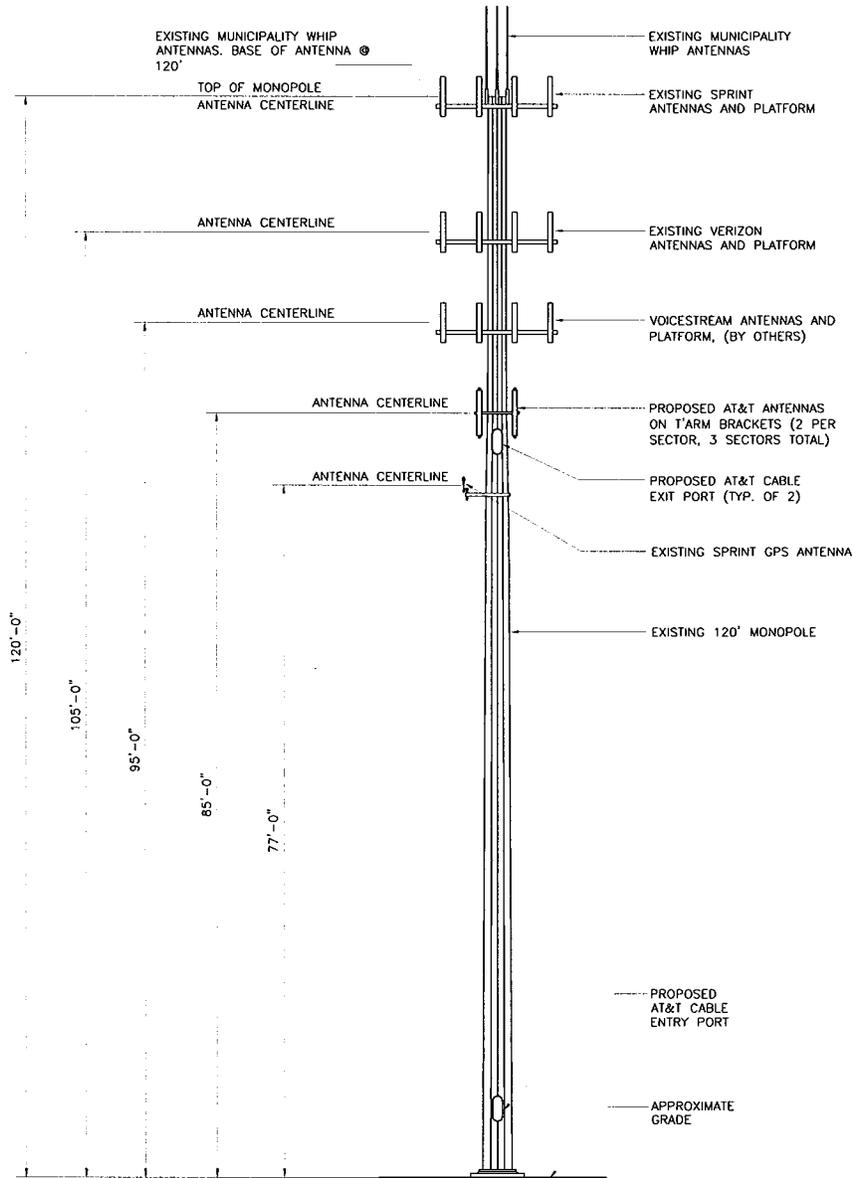
LATITUDE:	41.5870973 (NAD 83)
LONGITUDE:	72.4884646 (NAD 83)

URS
URS CORPORATION-AES
795 BROOK STREET, BLDG 5
ROCKY HILL, CT. 06067
1-(860)-529-8882
1-(860)-529-5566 (FAX)

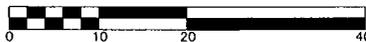
 **AT&T**
AT&T WIRELESS PCS LLC
12 OMEGA DRIVE
STAMFORD, CONNECTICUT 06902

DRAWING TITLE: COMPOUND PLAN
PROJECT INFORMATION: EAST HAMPTON - LAKE VISTA
CT-839
94 EAST HIGH STREET
EAST HAMPTON, CT
PROPERTY OWNER: SPRINT SITES USA
535 CRESCENT AVENUE
RAMSEY, NY 07746

DRAWING TITLE: 907-007-839A-SC1	
REVISION NO. 1	DRAWN BY: RB
DATE ISSUED: 05/20/02	CHECKED BY: JCF
SCALE: AS NOTED	APPROVED BY:
	SHEET NO. 1 OF 2
URS JOB NO.: F302224.34	



1 TOWER ELEVATION
 SC-2 SCALE: 1" = 20'-0"



ISSUED FOR SITING COUNCIL

LATITUDE:	41.5870973 (NAD 83)
LONGITUDE:	72.4884646 (NAD 83)

URS
 URS CORPORATION-AES
 795 BROOK STREET, BLDG 5
 ROCKY HILL, CT. 06067
 1-(860)-529-8882
 1-(860)-529-5566 (FAX)

 **AT&T**
 AT&T WIRELESS PCS LLC
 12 OMEGA DRIVE
 STAMFORD, CONNECTICUT 06902

DRAWING TITLE: TOWER ELEVATION
PROJECT INFORMATION: EAST HAMPTON-LAKE VISTA
 CT-839
 94 EAST HIGH STREET
 EAST HAMPTON, CT
PROPERTY OWNER: SPRINT SITES USA
 535 CRESCENT AVENUE
 RAMSEY, NY 07746

<i>DRAWING TITLE:</i> 907-007-839A-SC2	
REVISION NO. 1	DRAWN BY: RB
DATE ISSUED: 05/20/02	CHECKED BY: JCF
SCALE: AS NOTED	APPROVED BY:
	SHEET NO. 2 OF 2
URS JOB NO.: F302224.34	



May 21, 2002

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

**Reference: Proposed Telecommunications Facility
AT&T Site No. CT-839
94 East High Street
East Hampton, Connecticut
F300002224.34**

Dear Mr. Gelston:

URS Corporation AES (URS) conducted a review and evaluated the existing 120' monopole structure located at 94 East High Street in East Hampton, Connecticut. The purpose of this review was to evaluate the affect of the proposed AT&T Wireless antennas and mount on the existing monopole structure. The monopole and its foundation were designed by Engineered Endeavors job no. 5069 dated May 28, 1999. The monopole and its foundation were originally designed to support three telecommunications carriers between the elevations of 95' - 120'. The monopole currently is supporting three carriers including the municipality antennas between elevations 95' - 120'. The proposed AT&T Wireless antennas and mount considered in this review are as listed below:

Antenna and Mount	Carrier	Antenna Center Elevation
(6) Allgon 7250.03 with (3) T-Frame mounts and (12) 1-5/8" coax cables within the monopole	AT&T	85'

It is our determination that the existing monopole and its foundation have sufficient structural capacity to support the presently installed three carriers including the municipality antennas and the AT&T Wireless installation as specified above. This evaluation is based on requirements of the TIA/EIA-222-F dated March 1996 and the Connecticut State Building Code dated 1999 and the latest supplement and amendments.

If you should have any questions, please call.

Sincerely,

URS Corporation AES

Mohsen Sahirad, P.E.
Senior Structural Engineer



MS/rmn

- cc: Don Huntley – Bechtel
- Naish Artaiz – URS
- Doug Roberts – URS
- Alitz Abadjian – URS
- CF/Book

URS Corporation
500 Enterprise Drive, Suite 3B
Rocky Hill, CT 06067
Tel: 860.529.8882
Fax: 860.529.3991



RF Exposure Analysis for Proposed AT&T Wireless Antenna Facility

SITE ID: 907-007-839

May 29, 2002

Prepared by AT&T Wireless Services, Inc.
Nader Soliman **RF Engineer**

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1. Introduction

This report constitutes an RF exposure analysis for the proposed AT&T Wireless antenna facility to be located at 94 East High Street, East Hampton, CT 06424. This analysis uses site-specific engineering data to determine the predicted levels of radio frequency (RF) electromagnetic energy in the vicinity of the proposed facility and compares those levels with the Maximum Permissible Exposure (MPE) limits established by the Federal Communications Commission.

2. Site Data

Site Name: Coventry	
Number of simultaneously operating channels	16
Type of antenna	Allgon 7250.03
Power per channel (Watts ERP)	250.0 Watts
Height of antenna (feet AGL)	85.00 feet
Antenna Aperture Length	5 feet

3. RF Exposure Prediction

The following equations established by the FCC, in conjunction with the site data, were used to determine the levels of RF electromagnetic energy present in the vicinity of the proposed facility¹:

$$PowerDensity = \frac{0.64 * N * EIRP(\theta)}{\pi * R^2} (mW/cm^2) \quad Eq. 1-Far-field$$

Where, N = Number of channels, R = distance in cm from the RC (Radiation Center) of antenna, and $EIRP(\theta)$ = The isotropic power expressed in milliwatts in the direction of prediction point. This is the correct equation for antennas which have their gain expressed in dBi, which is the usual case for the PCS bands.

$$PowerDensity = \frac{P_{in} / ch * N * 10^3}{2 * \pi * R * h * \alpha / 360} (mW/cm^2) \quad Eq. 2-Near-field$$

Where P_{in}/ch = Input power to antenna terminals in watts/ch, R = distance to center of radiation, h = aperture height in meters, α = 3 dB beam-width of horizontal pattern.

¹ RF exposure is measured and predicted in terms of power density in units of milliwatts (mW), a thousandth of a watt, or microwatts (μ W), a millionth of a watt, per square centimeter (cm^2). Data comparing predictive analysis with on site measurements has demonstrated that power density can be effectively predicted at given locations in the vicinity of a wireless antenna facility.

4. FCC Guidelines for Evaluating the Environmental Effects of RF Radiation

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by a Second Memorandum Opinion and Order. These new rules represent a consensus of the federal agencies responsible for the protection of public health and the environment, including the Environmental Protection Agency (EPA), the Food and Drug Administration (FDA), the National Institute for Occupational Health and Safety (NIOSH), and the Occupational Safety and Health Administration (OSHA).

Under the laws that govern the delivery of wireless communications services in the United States, as amended by the Telecommunications Act of 1996, the FCC has exclusive jurisdiction over RF emissions from personal wireless antenna facilities, which include cellular, PCS, messaging and aviation sites.² Pursuant to its authority under federal law, the FCC has established rules to regulate the safety of emissions from these facilities.

5. Comparison with Standards

Exhibit A shows the levels of RF electromagnetic energy as one moves away from the antenna facility. As shown in Exhibit A, the maximum power density is 0.004106 mW/cm² which occurs at 100 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000190 mW/cm² at a distance of 4 feet. Table 1 below shows the Maximum Permissible Exposure (MPE) limits established by the FCC. There are different MPE limits for public/uncontrolled and occupational/controlled environments.

Table 1: Maximum Permissible Exposure limits for RF radiation

<i>Frequency</i>	<i>Public/Uncontrolled</i>	<i>Occupational/controlled</i>	<i>Maximum power density at Accessible location</i>
Cellular	.580 mW/cm ²	2.9 mW/cm ²	0.004106 mW/cm ²
PCS	1 mW/cm ²	5 mW/cm ²	

The maximum power density at the proposed facility represents only 0.55% of the public MPE limit for PCS frequencies.

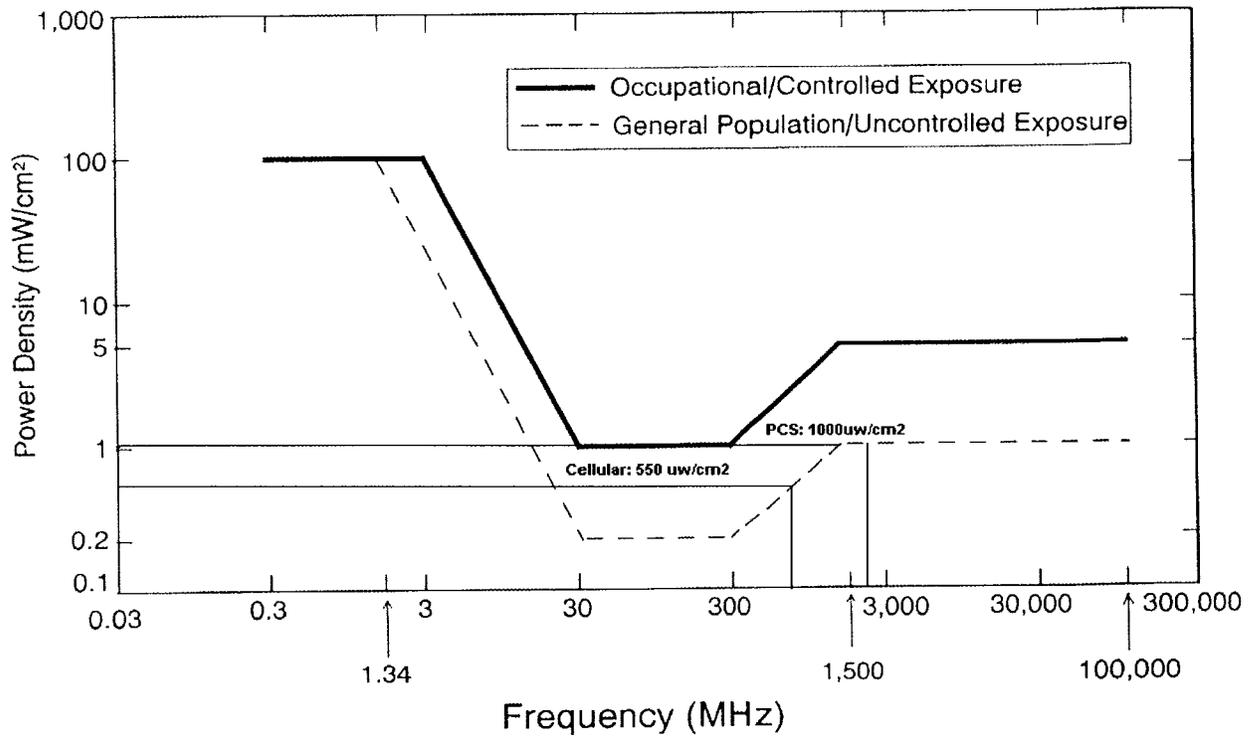
6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.004106 mW/cm², a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

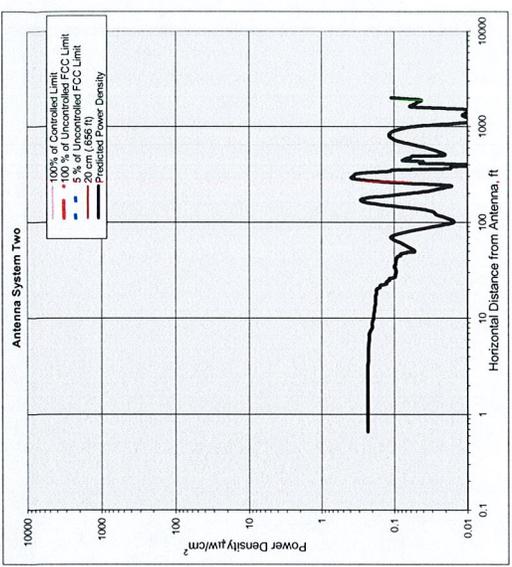
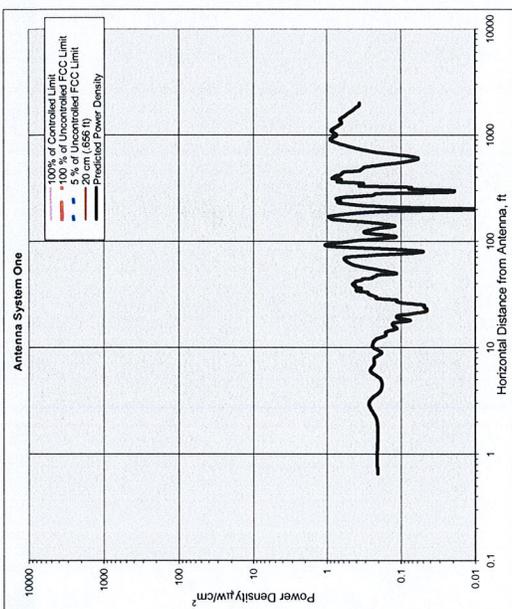
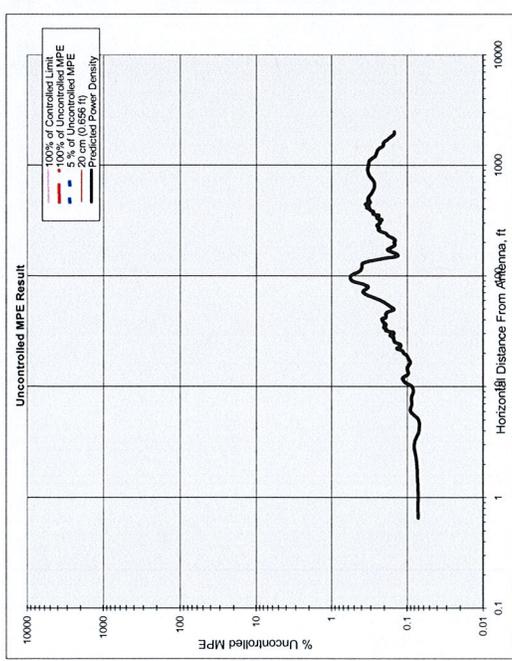
² 47 U.S. C. Section 332 (c) (7)(B)(iv) states that “[n]o State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission’s regulations concerning such emissions.”

7. FCC Limits for Maximum Permissible Exposure

FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density



8. Exhibit A



Number of Antenna Systems: 7
 Meets FCC Controlled Limits for The Antennas Systems.

Meets FCC Uncontrolled Limits for The Antenna Systems.

Meets 5% of FCC Uncontrolled Limits for The Antenna Systems.

No Further Maximum Permissible Exposure (MPE) Analysis Required.

Power Density	mW/cm²	@Horiz. Dist.
Maximum Power Density =	0.004106	100.00 feet
182.70 times lower than the MPE limit for uncontrolled environment	0.55	
Composite Power (ERP) =	17,200.00	Watts

Site ID: 907-007-839
 Site Name: East Hampton Lake Vista Drive
 Site Location: 94 East High Street
 East Hampton, CT 06424

Performed By: Nader Soliman
 Date: 5/29/02

Antenna System One

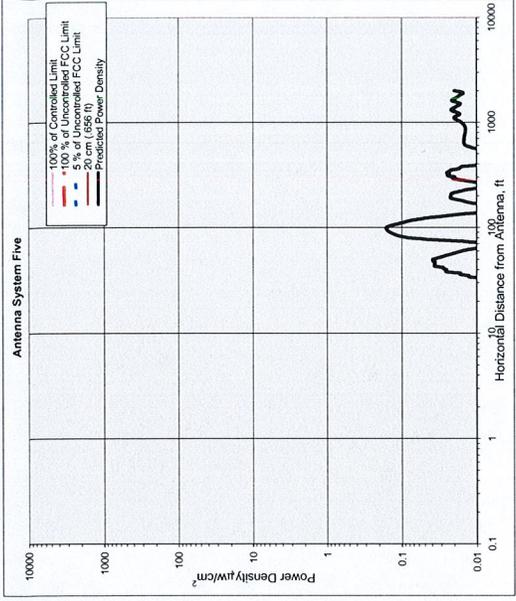
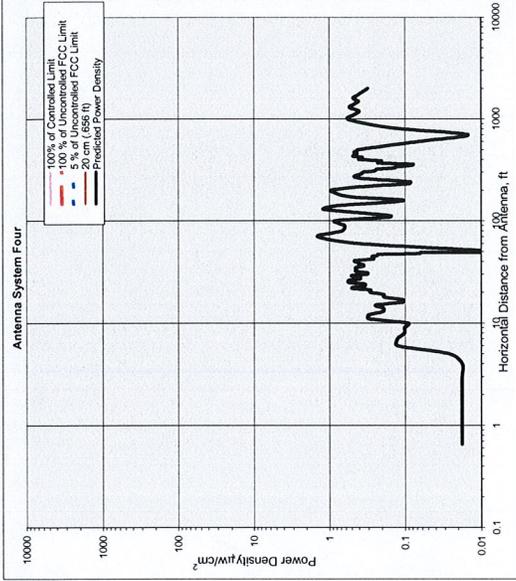
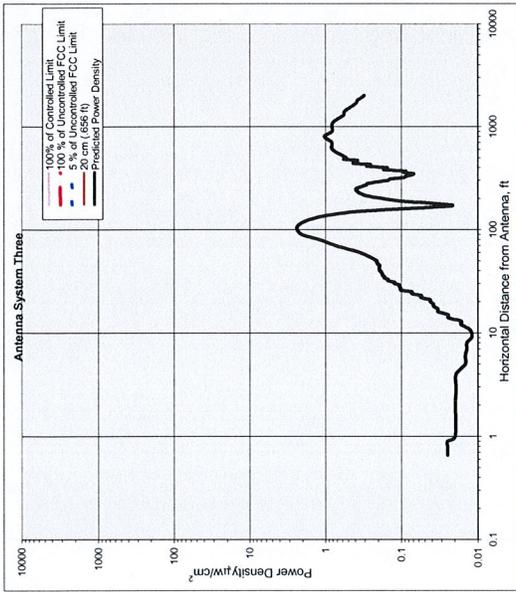
Frequency	MHz	Value
# of Channels	#	16
Max ERP/Ch	Watts	250.00
Max Pwr/Ch into Ant.	Watts	5.86
Calculation Point (Center of Radiator)	feet	85.00
(above ground or roof surface)	feet	0.00
Antenna Model No.		Aligon 7250.03
Max Ant Gain	dBd	16.30
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.11
Ant HBW	degrees	65.00
Distance to Ant (bottom)	feet	82.45
WOS?	Y/N?	n

Ant System ONE Owner: AT&T
 Sector: 3
 Azimuth: 0/120/240

Antenna System Two

Frequency	MHz	Value
# of Channels	#	16
Max ERP/Ch	Watts	250.00
Max Pwr/Ch into Ant.	Watts	7.73
Calculation Point (Center of Radiator)	feet	120.00
(above ground or roof surface)	feet	0.00
Antenna Model No.		DB980C90E-M
Max Ant Gain	dBd	15.10
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.00
Ant HBW	degrees	90.00
Distance to Ant (bottom)	feet	117.50
WOS?	Y/N?	n

Ant System TWO Owner: Sprint
 Sector: 3
 Azimuth: 0/120/240



Antenna System Three

Parameter	units	Value
Frequency	MHz	806.00
# of Channels	#	16
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant. (Center of Radiator)	Watts	15.77
Calculation Point (above ground or roof surface)	feet	105.00
	feet	0.00
	feet	0.00
Antenna Model No.		DB844H90-XY
Max Ant Gain	dBd	12.00
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.00
Ant HBW	degrees	90.00
Distance to Ant _{bottom}	feet	103.00
WOS?	Y/N?	n

Ant System Three Owner: Verizon
Sector: 3
Azimuth 30/150/270

Antenna System Four

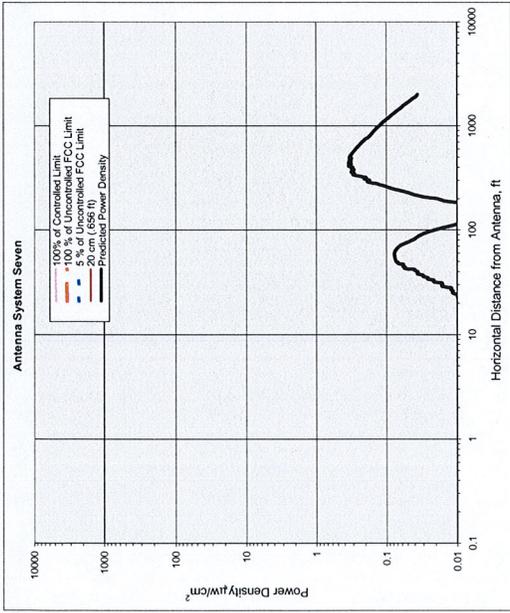
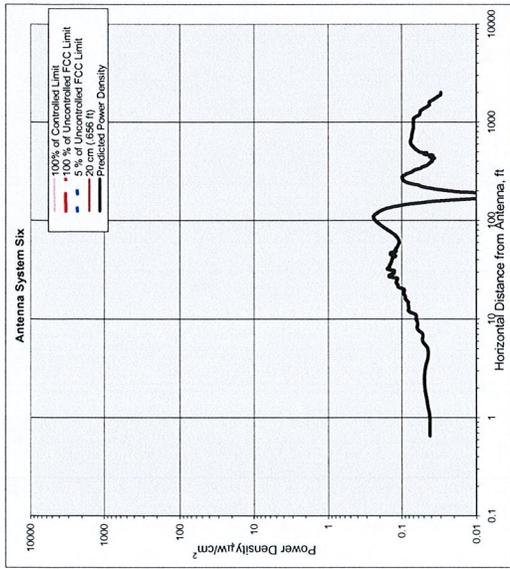
Parameter	units	Value
Frequency	MHz	1930.00
# of Channels	#	16
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant. (Center of Radiator)	Watts	9.08
Calculation Point (above ground or roof surface)	feet	95.00
	feet	0.00
	feet	0.00
Antenna Model No.		RR901702
Max Ant Gain	dBd	14.40
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.66
Ant HBW	degrees	90.00
Distance to Ant _{bottom}	feet	92.67
WOS?	Y/N?	n

Ant System Four Owner: VoiceStream
Sector: 3
Azimuth: 360

Antenna System Five

Parameter	units	Value
Frequency	MHz	453.64
# of Channels	#	4
Max ERP/Ch	Watts	100.00
Max Pwr/Ch Into Ant. (Center of Radiator)	Watts	12.02
Calculation Point (above ground or roof surface)	feet	120.00
	feet	0.00
	feet	0.00
Antenna Model No.		DB-420
Max Ant Gain	dBd	9.20
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	9.20
Ant HBW	degrees	360.00
Distance to Ant _{bottom}	feet	115.40
WOS?	Y/N?	n

Ant System Five Owner: Municipality
Sector: 1
Azimuth: 360.00



Antenna System Six

Frequency	units	Value
Frequency	MHz	155.49
# of Channels	#	4
Max ERP/Ch	Watts	100.00
Max Pwr/Ch Into Ant. (Center of Radiator)	Watts	25.12
Calculation Point (above ground or roof surface)	feet	120.00
Antenna Model No.		0.00
Max Ant Gain	dBd	0.00
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	6.00
Ant HBW	degrees	360.00
Distance to AntBottom	feet	117.00
WOS?	Y/N?	n

Ant System SIX Owner: Municipality
Sector: 1
Azimuth: 360

Antenna System Seven

Frequency	units	Value
Frequency	MHz	46.18
# of Channels	#	4
Max ERP/Ch	Watts	100.00
Max Pwr/Ch Into Ant. (Center of Radiator)	Watts	100.00
Calculation Point (above ground or roof surface)	feet	120.00
Antenna Model No.		0.00
Max Ant Gain	dBd	0.00
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.60
Ant HBW	degrees	360.00
Distance to AntBottom	feet	117.20
WOS?	Y/N?	n

Ant System SEVEN Owner: Municipality
Sector: 1
Azimuth: 360

9. For Further Information

Additional information about the environmental impact of RF energy from personal wireless antenna facilities can be obtained from the Federal Communications Commission:

Dr. Robert Cleveland
Federal Communications Commission
Office of Engineering and Technology
Washington, DC 20554

RF Safety Program: 202-418-2464

Internet address: rfafety@fcc.gov

RF Safety Web Site: www.fcc.gov/oet/rfsafety

10. References

- [1] The Communications Act of 1934, as amended by the Telecommunications Act of 1996, 47 U.S.C. Section 332 (c)(7)(B)(iv).
- [2] Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Notice of Proposed Rulemaking, ET Docket 93-62, 8 FCC Rcd 2849 (1993).
- [3] Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Report and Order, ET Docket 93-62, FCC 96-326, adopted August 1, 1996. 61 Federal Register 41006 (1996).
- [4] Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Second Memorandum Opinion and Order, ET Docket 93-62, adopted August 25, 1997.
- [5] Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields, OET Bulletin 65, August, 1997.