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

October 24, 2002

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

RE: **EM-AT&T-025-0201002** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 751 Higgins Road, Cheshire, Connecticut.

Dear Attorney Fisher:

At a public meeting held on October 23, 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 in our office on October 2, 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 Sandra R. Mouris, Council Chairman, Town of Cheshire
Michael A. Milone, Town Manager, Town of Cheshire
Richard A. Pfurr, Town Planner, Town of Cheshire
American Telephone and Telegraph Company
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Julie Donaldson Kohler, Hurwitz & Sagarin LLC
Thomas F. Flynn III, Nextel Communications
Michele G. Briggs, Southwestern Bell Mobile Systems
Sandy M. Carter, Verizon Wireless

I:\siting\em\at&t\cheshire\dc102302.doc

EM-AT&T-025-021002

RECEIVED
OCT - 2 2002
CONNECTICUT
SITING COUNCIL

NOTICE OF INTENT TO MODIFY AN EXISTING TELECOMMUNICATIONS FACILITY AT 751 HIGGINS ROAD, CHESHIRE, 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, by and through its agent AT&T Wireless PCS, Inc., ("AT&T Wireless") hereby notifies the Connecticut Siting Council of its intent to modify an existing facility located at 751 Higgins Road, Cheshire, Connecticut (the "Higgins Road Facility"), owned by American Telephone and Telegraph Company (the "Tower Owner"). AT&T Wireless and the Tower Owner have agreed to share the use of the Higgins Road Facility, as detailed below.

The Higgins Road Facility

The Higgins Road Facility consists of an approximately two hundred fifty (250) foot lattice tower (the "Tower") and associated equipment currently being used and/or approved for use for wireless communications by SGI Communications, VoiceStream, Sprint, Nextel, Cingular and Verizon. A chain link fence surrounds the Tower compound. The surrounding land uses are predominantly residential.

AT&T Wireless' Facility

As shown on the enclosed plans prepared by Tectonic/Keyes Associates, including a site plan and tower elevation of the Higgins Road 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 the existing fenced compound.[1] AT&T Wireless will install 6 panel antennas at approximately the 170 foot level of the Tower and associated equipment, three Nokia Metrosite GSM BTS units and two Metrosite BBU's (battery back-up units) mounted on the tower leg at approximately 6' AGL. As evidenced in the letter of structural integrity prepared by Communication Structures Engineering, Inc., annexed hereto as Exhibit A, AT&T has confirmed that the tower is structurally capable of supporting the addition of AT&T Wireless' antennas and associated equipment.

AT&T Wireless' Facility Constitutes An Exempt Modification

The proposed addition of AT&T Wireless' antennas and equipment to the Higgins Road 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

[1] Other carriers' antennas shown generally on the elevation included with this filing.

more at the Tower site's boundary. As set forth in an Emissions Report[2] prepared by Prabhakar K. Rughoobur, 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

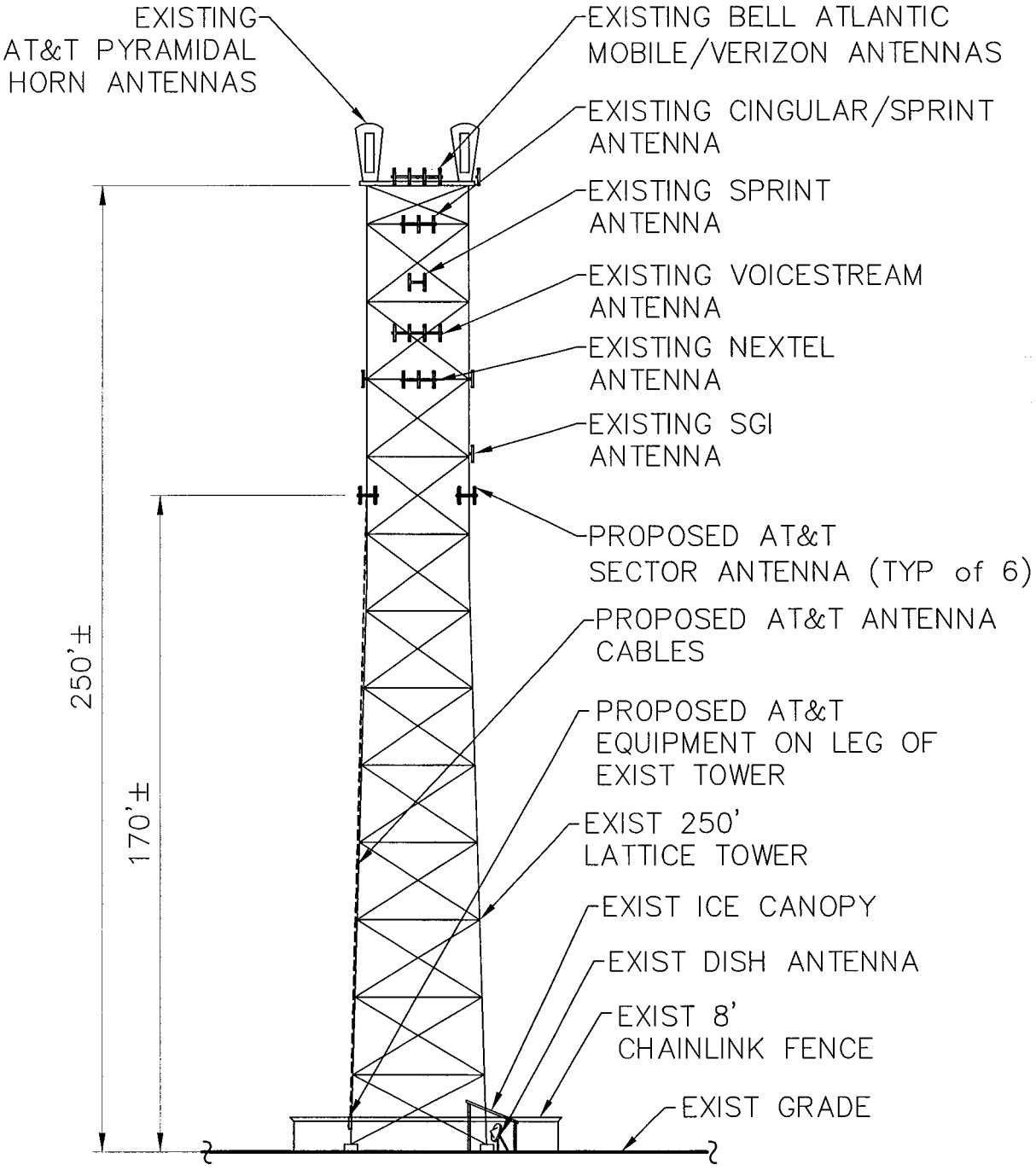
Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the Higgins Road Facility meets the Council's exemption criteria.

Respectfully Submitted,

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

cc: Town Manager, Town of Cheshire
RJ Wetzel, Bechtel

[2] SGI Communications antennas on the tower are inactive. In addition, AT&T's Horn antennas are a redundant backup system and are not currently operational. See page 4 of the Emissions Report.



NOTE: 1) FENCE FABRIC & GREEN SLATS NOT SHOWN FOR CLARITY

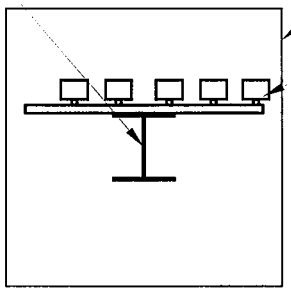
NOTE: 2) ANTENNA INVENTORY APPROX. PENDING ADDITIONAL INFORMATION

TECTONIC/KEYES ASSOCIATES 1344 SILAS DEANE HIGHWAY, SUITE 300 ROCKY HILL, CT 06067-1348 OFFICE (860)563-3291 FAX (860)257-4855	**AT&T** AT&T WIRELESS SERVICES, INC. 12 Omega drive, Second Floor Stamford, Ct. 06902	*DRAWING TITLE:* ELEVATION *PROJECT INFORMATION:* CHESHIRE SW CT-445.4 751 HIGGINS ROAD CHESHIRE, CT 06410 *PROPERTY OWNER:* AT&T PO BOX 1329 MORRISTOWN, NJ 07960	*DRAWING NO.* **SC-2** REVISION NO. 1 — DRAWN BY: RPM DATE ISSUED: 9/30/02 — CHECKED BY: MC SCALE: 1"=40' — APPROVED BY: JDF ISSUED FOR COMMENT — SHEET NO. 2 OF 2 A/E PROJECT NO: 2850.CT-445

EXIST NW TOWER LEG

TRUE

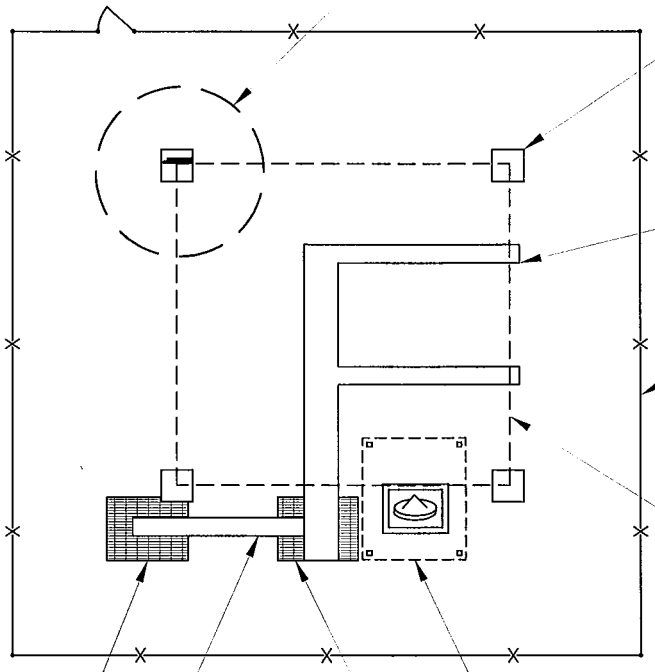
DETAIL NTS



EXIST TOWER FOUNDATION

PROPOSED AT&T EQUIPMENT ATTACHED TO TOWER LEG ON UNISTRUT FRAME

SEE DETAIL



EXIST TOWER FOUNDATION (TYP)

EXIST CABLE BRIDGE (TYP)

EXIST 8' CHAINLINK FENCE WITH BARBED WIRE

EXIST TOWER OUTLINE

SC-2

EXIST ACCESS GRATE TO BUNKER

EXIST CABLE BRIDGE

EXIST ICE CANOPY OVER DISH ANTENNA

EXIST CABLE ENTRY GRATE TO BUNKER

NOTE: GREEN SLATS TO BE ADDED TO EXIST CHAINLINK FENCE

TECTONIC/KEYES ASSOCIATES
1344 SILAS DEANE HIGHWAY, SUITE 200
ROCKY HILL, CT 06067-1348
OFFICE: (860)563-3244
FAX: (860)257-4255

AT&T
AT&T WIRELESS SERVICES, INC.
12 Omega drive, Second Floor
Stamford, Ct. 06902

DRAWING TITLE:
SITE DETAIL PLAN

PROJECT INFORMATION:
CHESHIRE SW
CT-445.4
751 HIGGINS ROAD
CHESHIRE, CT 06410

PROPERTY OWNER:
AT&T
PO BOX 1329
MORRISTOWN, NJ 07960

DRAWING NO.
SC-1

REVISION NO. 1	DRAWN BY: RPM
DATE ISSUED: 9/30/02	CHECKED BY: MC
SCALE: 1"=20'	APPROVED BY: JDF
ISSUED FOR COMMENT	SHEET NO. 1 OF 2
A/E PROJECT NO: 2650.CT-445	

Communication Structures Engineering, Inc.

Mr. Larry Montee
AT&T National Tower Engineering
1200 Peachtree Street, Atlanta, GA 30309

September 30, 2002

Re: Structural Analysis of AT&T's 250-ft Modified Type 'J ' Tower
AT&T L-4 Junction Building Site
751 Higgins Road, Cheshire, CT
AT&T Wireless Services' Antenna & Equipment Additions

Dear Mr. Montee,

Communication Structures Engineering, Inc. (CSEI) has completed a structural review of the existing AT&T 250-ft Type 'J ' Tower that is located at this AT&T site in Cheshire, CT. In accordance with AT&T Wireless Services (AWS) request, we performed a structural analysis of this structure to check its capability to support the existing tower, antenna and equipment loads as well as the new loads from the AWS proposed panel antennas, transmission lines, and equipment additions. The specific loading criteria that we utilized in accordance with BOCA were those prescribed by the national standard "ANSI/TIA/EIA-222-F". CSEI utilized the original engineering & fabrication drawings for the 250-ft Type 'J ' tower at this site to conduct this structural review. A CSEI engineer previously visited this site in 1998. At that time, CSEI climbed, photographed & reviewed the condition of the existing tower structure and confirmed equipment locations. Recent photos of this structure were used to confirm the most current antenna & equipment configuration for this structure. A summary of the loads considered and the results of CSEI's structural analysis follow.

ANTENNA CONFIGURATION (Used for Structural Analysis)

Existing Antennas & Cables to remain on tower

AT&T: Two KS15676 Pyramidal Horn antennas at a centerline of 258-ft AGL each with one run of WG281 waveguide.
Bell Atlantic Mobile: Twelve Swedcom ALP-E9011 Panel Antennas at 253-ft AGL with 12 runs of 1-5/8 inch coaxial cable
SNET: Nine Panel Antennas at 253-ft & 240-ft AGL with 9 runs of 1-5/8-inch coaxial cable.
Sprint PCS: Six Decibel DB980 panel antennas at 225-ft AGL each w/ one run of 1-5/8 inch coaxial cable.
Nextel Communications: Nine Decibel DB844H90 Panel Antennas at 200-ft & 212-ft AGL with 9 runs of 1-5/8-inch coaxial cable.
SGI Communications:
Two Andrew PG1-NOF-0091-011 Rx antennas at 199-ft AGL each w/ one run of 7/8 inch coaxial cable.
One Andrew PG1-NOF-0093-311 Tx antenna at 181-ft AGL w/ one run of 7/8 inch coaxial cable.

Pending Removals VoiceStream Antenna, Cables & Equipment - *To be removed from tower*
Four DAPA 58210 Panel Antennas at 212-ft AGL with 6 runs of 7/8 inch coaxial cable and two runs of 1/2-inch coaxial cable
Two Nortel S2000H BTS Cabinets mounted on the tower face at 20-ft AGL.

Existing VoiceStream Antenna, Cables & Equipment - *To remain on tower*
One 2-ft square planar array antenna (pt. to pt. microwave antenna) with one run of ½ -inch coaxial cable.

Pending Installation VoiceStream Antenna, Cables & Equipment – *Presently being installed on tower*
Eight EMS RR-90-17 Panel Antennas at 212-ft ATBP with 16 new runs of 1-5/8 inch coaxial cable.
Two Nortel S8000 BTS Cabinets mounted on existing platform at 37-ft AGL.

New AT&T Wireless Services Antenna, Cables & Equipment - *Additions to tower*
Six Allgon 7250.03 Panel Antennas at 170-ft ATBP with 12 new runs of 1-5/8 inch coaxial cable.
Three Nokia Metrosite GSM BTS Units & Two Metrosite BBU's (Battery Back-up Units) mounted on the tower leg at approx. 6-ft AGL

CSEI's structural analysis utilized the structural loads prescribed by "ANSI/TIA/EIA-222-F" "Structural Standards for Antenna Supporting Structures". The applicable "basic wind speed" that was utilized for this tower was the 85-mph, fastest-mile velocity, specified by the above standard for the New Haven County, CT area. The tower was also reviewed in accordance with this Standard for loads resulting from the combined effect of 75% wind load + ½-inch of radial ice loads. However, the full 85mph "basic wind speed" load without radial ice was found to be the controlling criteria for the design of this structure. The load carrying members of this structure were reviewed to check their compliance with the AISC ASD "Specification for Structural Steel Buildings. As a result of our structural analysis we determined that all existing tower members had maximum stress levels that were less than the allowable stresses permitted by the AISC Specification. We therefore have concluded that this existing 250-ft tower structure will be capable of supporting the loads from existing equipment as well as the proposed AT&T Wireless Services equipment additions, in accordance with the referenced codes. This tower structure will not require any structural modifications to support the AT&T Wireless Services equipment provided that the new equipment is mounted in conformance with CSEI's drawings E-1 & E-2 (CSEI Project #02-193), which have been prepared for this project.

If AT&T Wireless Services or any other carriers add any future equipment to this tower, this structure should be re-analyzed at that time.
We hope that this information is sufficient for your present needs.
CSEI will be happy to supply you with additional information as required.

Sincerely,

James E. Boltz, P.E. (CT P.E. #20122)

STATE OF CONNECTICUT
JAMES E. BOLTZ
No. 20122
LICENSED PROFESSIONAL ENGINEER
9/30/02

RF Exposure Analysis for Proposed AT&T Wireless Antenna Facility

SITE ID: 913-008-445

September 30, 2002

Prepared by AT&T Wireless Services, Inc.
Prabhakar Kumar Rughoobur **RF Engineer**

Table of Contents

1. Introduction

This report constitutes an RF exposure analysis for the proposed AT&T Wireless antenna facility to be located at *751 Higgins Rd, Cheshire, CT 06410.* 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: ***Cheshire SW***	
Number of simultaneously operating channels	12
Type of antenna	Allgon 7250.03
Power per channel (Watts ERP)	250.0 Watts
Height of antenna (feet AGL)	170.00 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 facility[1]:

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

Where, ***N***= Number of channels, ***R***= distance in cm from the RC (Radiation Center) of antenna, and ***EIRP(θ)*** = 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.

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

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 0.004025 mW/cm^2 which occurs at 1500 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000289 mW/cm^2 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

Frequency	*Public/Uncontrolled*	*Occupational/controlled*	*Maximum power density at Accessible location*
Cellular	.580 mW/cm^2	2.9 mW/cm^2	0.004025 mW/cm^2
PCS	1 mW/cm^2	5 mW/cm^2	

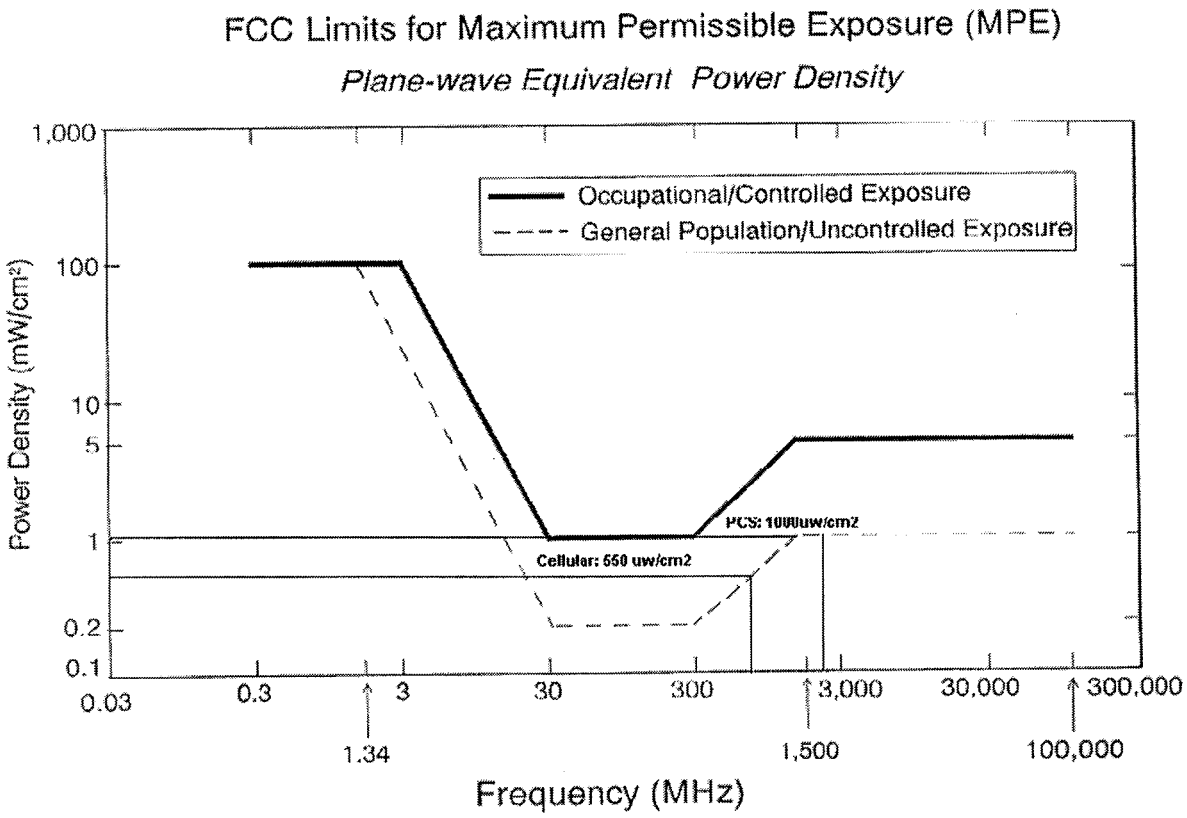
The maximum power density at the proposed facility represents only 0.67 % of the public MPE limit for all frequencies in use. SGI Communications has antennas on this tower which are not included in the emissions calculations as they are inactive. The AT&T Pyramidal Horn antennas were also excluded as they are a redundant backup system that is not currently operational.

6. Conclusion

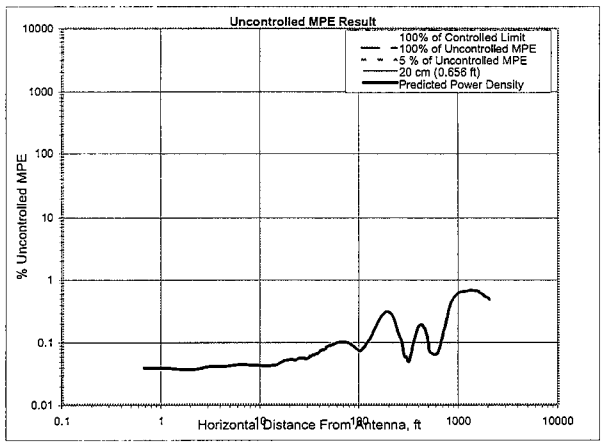
This analysis show that the maximum power density in accessible areas at this location is 0.004025 mW/cm^2, a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

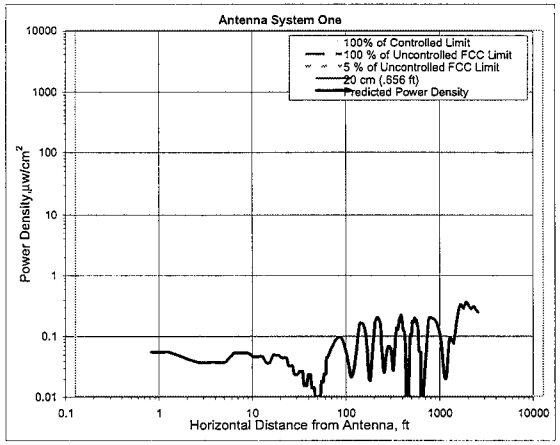
[2] 47 U.S. C. Section 332 (c) (7)(B)(iv) states that "[n]o State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that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

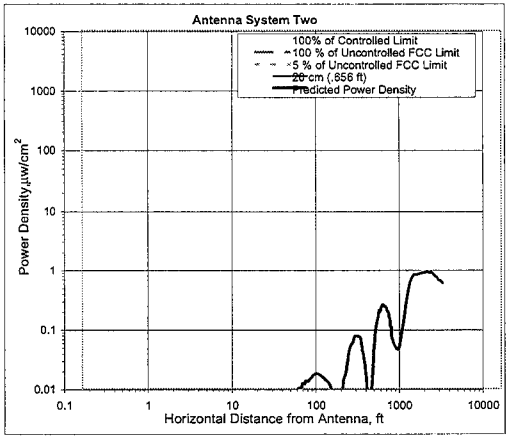
7. FCC Limits for Maximum Permissible Exposure



8. Exhibit A







Number of Antenna Systems: 9

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 Analysis Required.

	Power Density		@Horiz. Dist.
	mW/cm²	% of limit	feet
Maximum Power Density =	0.004025	0.67	1500.00
150.34 times lower than the MPE limit for uncontrolled environment			
Composite Power (ERP) =	42,600.00 Watts		

Antenna System One

	units	Value
Frequency	MHz	1945.00
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	5.86
(Center of Radiator)	feet	170.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		Allgon 7250.03
Max Ant Gain	dBd	16.30
Down tilt	degrees	2.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.11
Ant HBW	degrees	65.00
Distance to Ant_{bottom}	feet	162.45
WOS?	Y/N?	n

Antenna System Two

	units	Value
Frequency	MHz	860.00
# of Channels	#	30
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	15.77
(Center of Radiator)	feet	253.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		SCP 9011
Max Ant Gain	dBd	12.00
Down tilt	degrees	4.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.42
Ant HBW	degrees	90.00
Distance to Ant_{bottom}	feet	245.29
WOS?	Y/N?	n

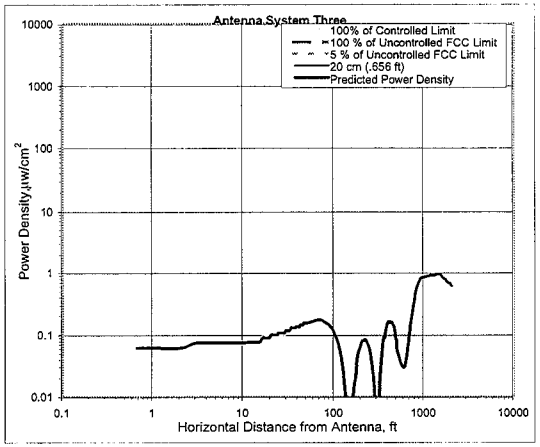
Site ID: 913-008-445
Site Name: Cheshire SW
Site Location: 751 Higgins Rd
Cheshire, CT 06410

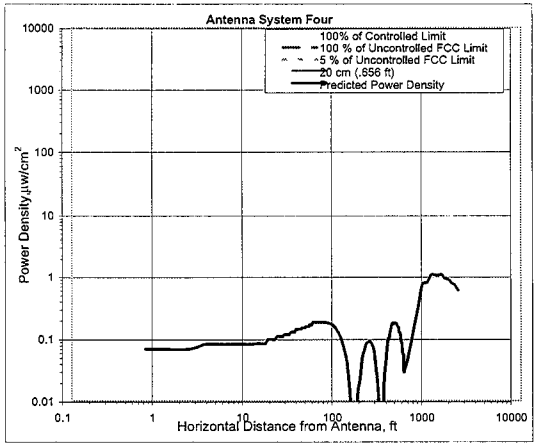
Performed By: Prabhakar K Rughoobur

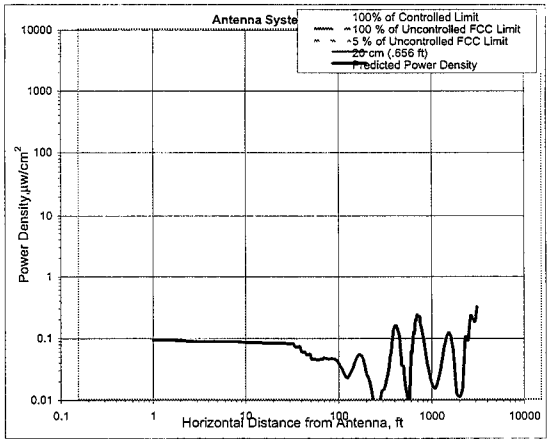
Date: 9/30/02

Ant System ONE Owner: AT&T Wireless
Sector: 3
Azimuth: 0/100/220

Ant System TWO Owner: Bell Atlantic Mobile (Verizon)
Sector: 3
Azimuth 0/120/240







Antenna System Three

	units	Value
Frequency	MHz	880.00
# of Channels	#	30
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	18.11
(Center of Radiator)	feet	253.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		Allgon 7120.16.33
Max Ant Gain	dBd	11.40
Down tilt	degrees	4.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.00
Ant HBW	degrees	110.00
Distance to Ant_{bottom}	feet	246.00
WOS?	Y/N?	n

Ant System Three Owner: SNET
Sector: 3
Azimuth 0/120/240

Antenna System Four

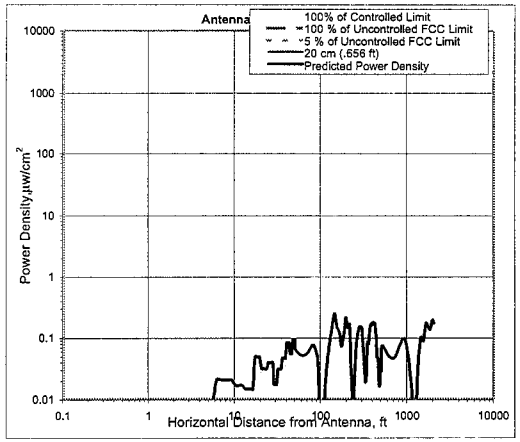
	units	Value
Frequency	MHz	880.00
# of Channels	#	30
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	18.11
(Center of Radiator)	feet	240.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		Allgon 7120.16.33
Max Ant Gain	dBd	11.40
Down tilt	degrees	4.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.00
Ant HBW	degrees	110.00
Distance to Ant_{bottom}	feet	233.00
WOS?	Y/N?	n

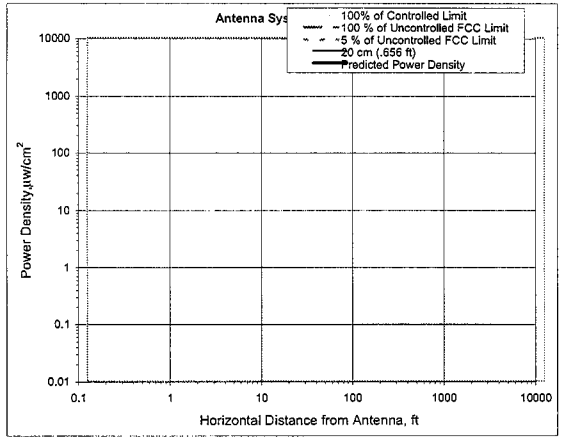
Ant System Four Owner: SNET
Sector: 3
Azimuth: 0/120/240

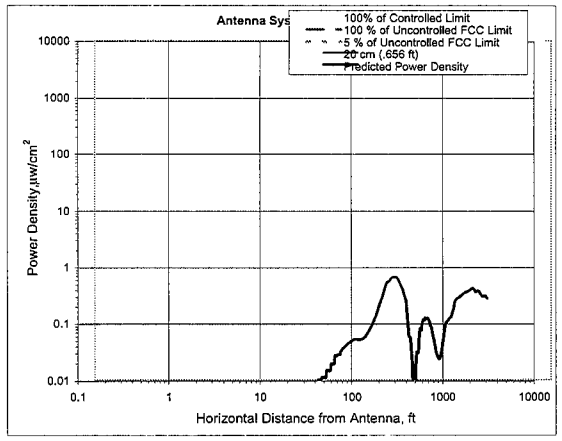
Antenna System Five

	units	Value
Frequency	MHz	1930.00
# of Channels	#	12
Max ERP/Ch	Watts	500.00
Max Pwr/Ch Into Ant.	Watts	15.45
(Center of Radiator)	feet	225.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		DB980G90E-M
Max Ant Gain	dBd	15.10
Down tilt	degrees	4.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.00
Ant HBW	degrees	90.00
Distance to Ant_{bottom}	feet	217.50
WOS?	Y/N?	n

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







Antenna System Six

	units	Value
Frequency	MHz	1950.00
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	9.08
(Center of Radiator)	feet	212.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		RR-90-17-02
Max Ant Gain	dBd	14.40
Down tilt	degrees	2.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.66
Ant HBW	degrees	90.00
Distance to Ant_{bottom}	feet	204.67
WOS?	Y/N?	n

Ant System SIX Owner: Voicestream
Sector: 3
Azimuth: 0/120/240

Antenna System Seven

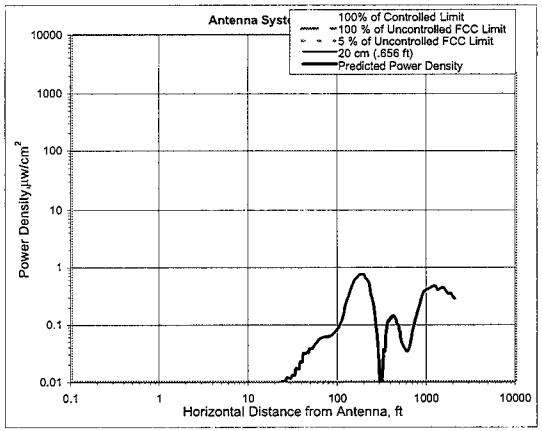
	units	Value
Frequency	MHz	2400.00
# of Channels	#	1
Max ERP/Ch	Watts	100.00
Max Pwr/Ch Into Ant.	Watts	1.10
(Center of Radiator)	feet	217.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		Gabriel 2' Flat Panel
Max Ant Gain	dBd	19.60
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	2.00
Ant HBW	degrees	10.00
Distance to Ant_{bottom}	feet	211.00
WOS?	Y/N?	n

Ant System SEVEN Owner: Voicestream (Microwave)
Sector: 1
Azimuth: 60

Antenna System Eight

	units	Value
Frequency	MHz	851.00
# of Channels	#	16
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	15.77
(Center of Radiator)	feet	212.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		DB844H90-XY
Max Ant Gain	dBd	12.00
Down tilt	degrees	2.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.00
Ant HBW	degrees	90.00
Distance to Ant_{bottom}	feet	205.00
WOS?	Y/N?	n

Ant System Eight Owner: Nextel
Sector: 3
Azimuth: 0/120/240



Antenna System Nine

	units	Value
Frequency	MHz	851.00
# of Channels	#	16
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	15.77
(Center of Radiator)	feet	200.00
Calculation Point	feet	5.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		DB844H90-XY
Max Ant Gain	dBd	12.00
Down tilt	degrees	2.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.00
Ant HBW	degrees	90.00
Distance to Ant_{bottom}	feet	193.00
WOS?	Y/N?	n

Ant System NINE Owner: Nextel
Sector: 3
Azimuth: 0/120/240

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: rfsafety@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.