STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

July 18, 2002

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

RE: **EM-AT&T-007-020626** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 1684 Chamberlain Highway, Berlin, Connecticut.

Dear Attorney Fisher:

At a public meeting held on July 11, 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 June 26, 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,

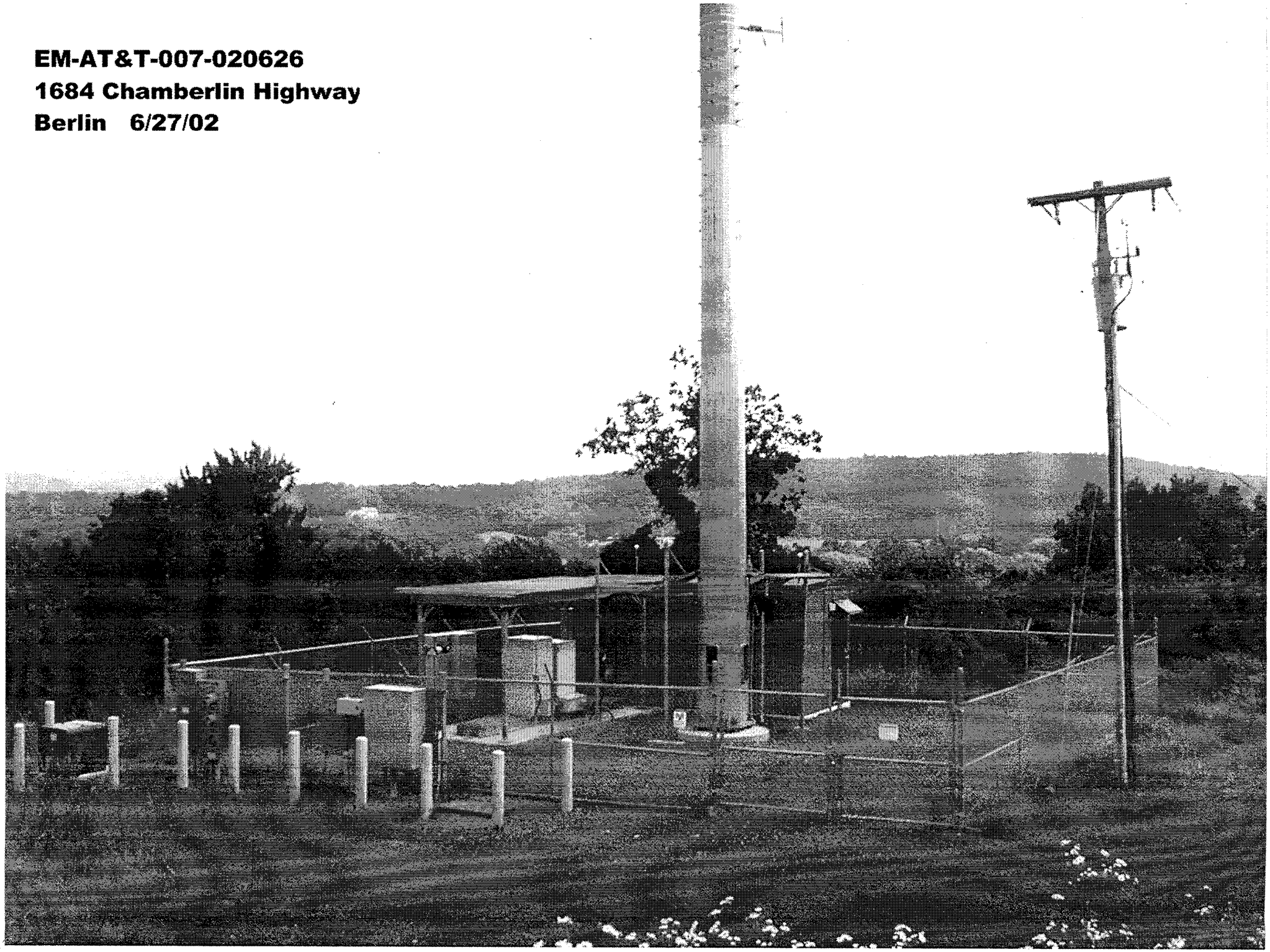
Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Paul C. Argazzi, Mayor, Town of Berlin
Brian J. Miller, Town Planner, Town of Berlin
Julie M. Donaldson, Esq., Hurwitz & Sagarin, LLC
Thomas F. Flynn III, Nextel Communications Inc.
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae
Sandy M. Carter, Verizon Wireless

EM-AT&T-007-020626
1684 Chamberlin Highway
Berlin 6/27/02

EM-AT&T-007-020626
1684 Chamberlin Highway
Berlin 6/27/02



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 27, 2002

Honorable Thomas J. Veronesi
Mayor
Town of Berlin
240 Kensington Road
Kensington, CT 06037

RE: **EM-AT&T-007-020626** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 1684 Chamberlain Highway, Berlin, Connecticut.

Dear Ms. Veronesi:

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 11, 2002, 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/dsj

Enclosure: Notice of Intent

c: Brian J. Miller, Town Planner, Town of Berlin

NOTICE OF INTENT TO MODIFY AN EXISTING TELECOMMUNICATIONS FACILITY AT 1684 CHAMBERLIN HIGHWAY, BERLIN, 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 1684 Chamberlin Highway, Berlin, Connecticut (the "Chamberlin Highway Facility"), owned by Sprint Sites USA. AT&T Wireless and Sprint have agreed to share the use of the Chamberlin Highway Facility, as detailed below.

The Chamberlin Highway Facility

The Chamberlin Highway Facility consists of an approximately one hundred twenty five (125) foot monopole (the "Tower") and associated equipment currently being used for wireless communications by Sprint and Nextel and reserved for future use by VoiceStream, Verizon and the municipality. A chain link fence surrounds the Tower compound.

AT&T Wireless' Facility

As shown on the enclosed plans prepared by URS Corporation, including a site plan and tower elevation of the Chamberlin Highway 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. AT&T Wireless will install 3 panel antennas at approximately the 75 foot level of the Tower and associated equipment cabinets (2 proposed, 2 future, each 76"H x 30" W x 30" D) located on a concrete pad within the fenced compound. 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

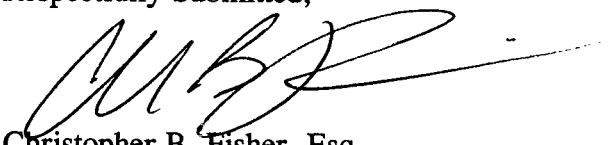
The proposed addition of AT&T Wireless' antennas and equipment to the Chamberlin Highway Facility constitutes an exempt "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d) and Council regulations promulgated pursuant thereto. Addition of AT&T Wireless' 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 Galen Belen, 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

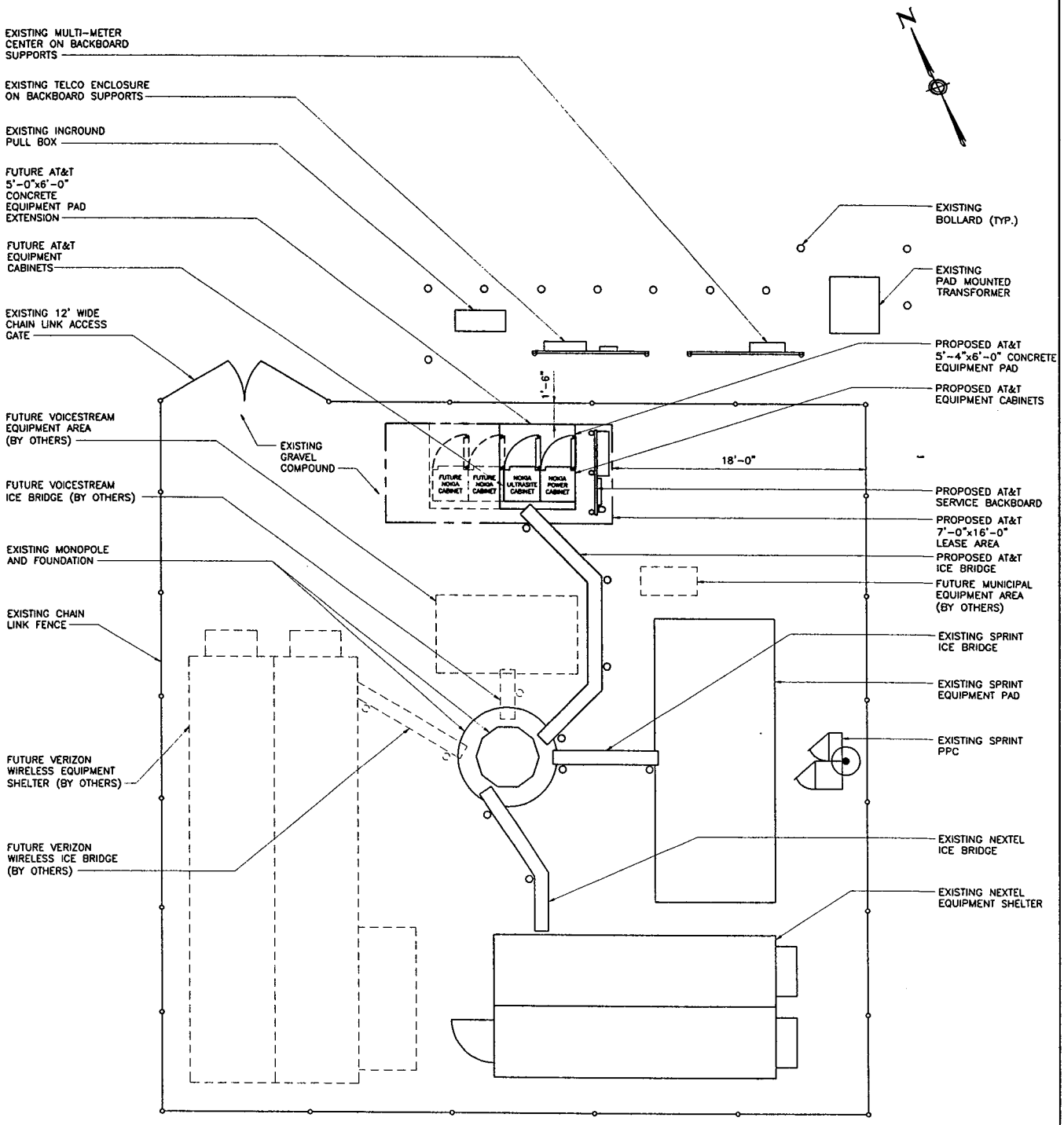
Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the Chamberlin Highway Facility meets the Council's exemption criteria.

Respectfully Submitted,



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

cc: Town Manager, Town of Berlin
Joanne Desjardins, Pinnacle



1 / SC-1 **COMPOUND PLAN**

SCALE: 1" = 10'-0"

0 5 10 20

ISSUED FOR SITING COUNCIL

LATITUDE:	41.59004 (NAD 83)
LONGITUDE:	72.80537 (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

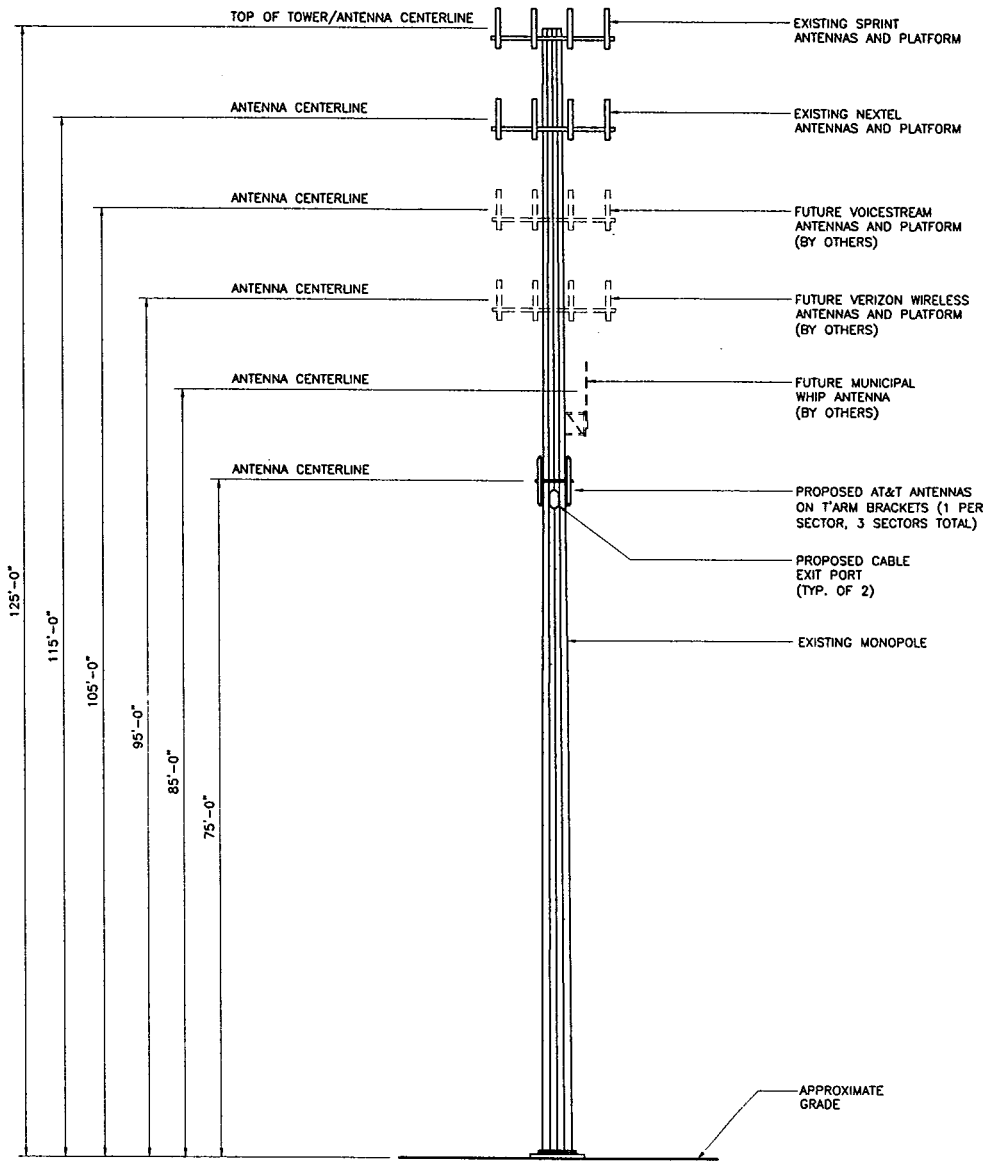
PROJECT INFORMATION:
BERLIN - CHAMBERLIN HIGHWAY
CT-851
1684 CHAMBERLIN HIGHWAY
BERLIN, CT

PROPERTY OWNER:
SPRINT SITES USA
535 CRESCENT AVENUE
RAMSEY, NY 07746

DRAWING TITLE: 907-007-851A-SC1

REVISION NO. 0	DRAWN BY: KJB
DATE ISSUED: 05/31/02	CHECKED BY: JCF
SCALE: AS NOTED	APPROVED BY:
	SHEET NO. 1 OF 2

URS JOB NO.: F302224.59



1 / SC-2 TOWER ELEVATION

SCALE: 1" = 20'-0"

0 5 10 20 40

ISSUED FOR SITING COUNCIL

LATITUDE:	41.59004 (NAD 83)
LONGITUDE:	72.80537 (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:
BERLIN - CHAMBERLIN HIGHWAY
CT-851
1684 CHAMBERLIN HIGHWAY
BERLIN, CT

PROPERTY OWNER:
SPRINT SITES USA
535 CRESCENT AVENUE
RAMSEY, NY 07746

DRAWING TITLE: 907-007-851A-SC2

REVISION NO. 0	DRAWN BY: KJB
DATE ISSUED: 05/31/02	CHECKED BY: JCF
SCALE: AS NOTED	APPROVED BY:
	SHEET NO. 2 OF 2

URS JOB NO.: F302224.59

URS

May 30, 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-851
1684 Chamberlain Highway
Berlin, Connecticut
F300002224.59

Dear Mr. Gelston:

URS Corporation AES (URS) conducted a review and evaluated the existing 123' monopole structure located on 1684 Chamberlain Highway in Berlin, 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 Paul J. Ford and Company job no. 29200-802 approved June 7, 2000. The monpole and its foundation were originally designed to support three telecommunications carriers between the elevations of 105' - 123'. The monopole currently is supporting four carriers including a municipality whip antenna between the elevations of 85' - 123'. The proposed AT&T Wireless antennas and mount considered in this review are as listed below:

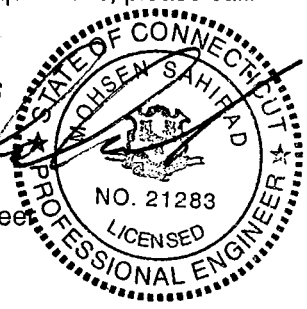
Antenna and Mount	Carrier	Antenna Center Elevation
(3) Allgon 7250.03 flush mounted with (6) 1-5/8" coax cables within the monopole	AT&T	75'

It is our determination that the existing monopole and its foundation have sufficient structural capacity to support the presently installed four carriers including a municipality whip antenna and the AT&T Wireless installation as specified above (see analysis report prepared by URS Corporation dated May 30, 2002 for the detailed antenna and mount configuration). 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

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: 907-007-851

June 20, 2002

Prepared by AT&T Wireless Services, Inc.
Galen Belen **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 *1684 Chamberlain Hwy, Berlin, CT 06037.* 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: ***Berlin West***	
Number of simultaneously operating channels	12
Type of antenna	Allgon 7250.02
Power per channel (Watts ERP)	250.0 Watts
Height of antenna (feet AGL)	75.00 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 0.007683 mW/cm^2 which occurs at 90 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000472 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	0.007683 mW/cm^2
PCS	1 mW/cm^2	5 mW/cm^2	

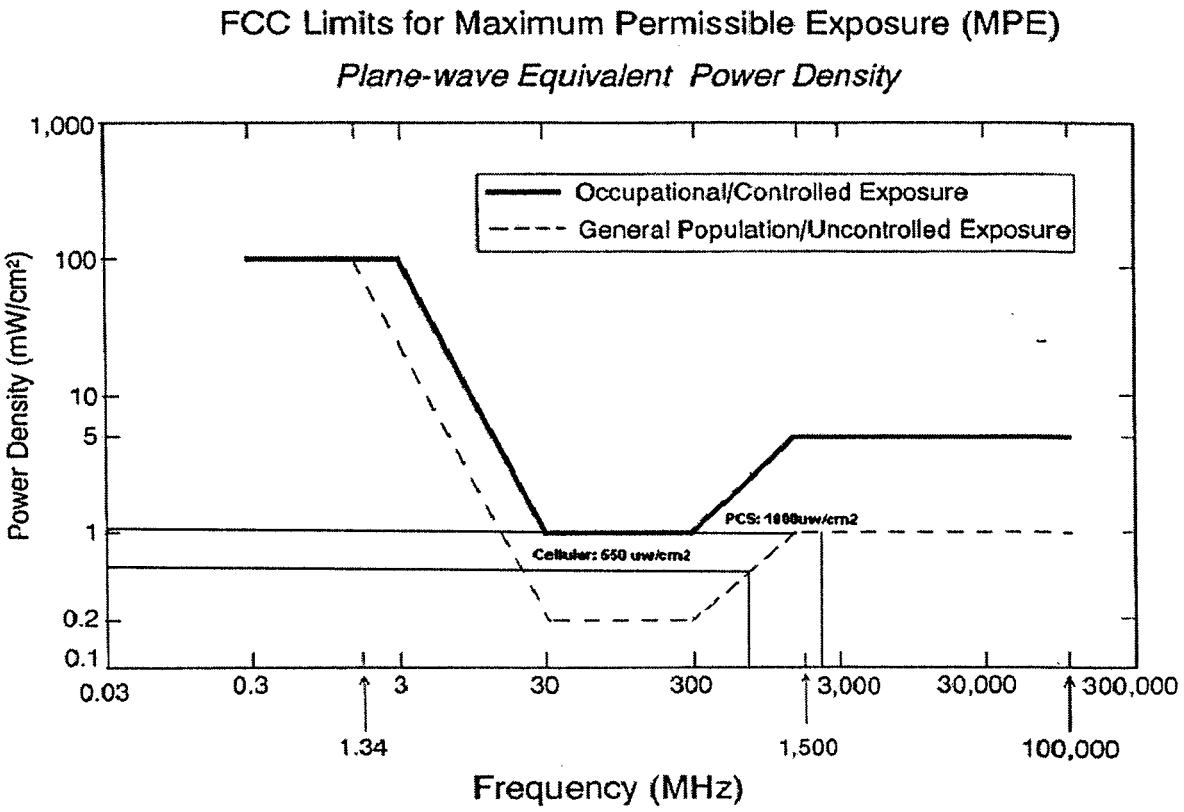
The maximum power density at the proposed facility represents only 1.23% of the public MPE limit for PCS frequencies.

6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.007683 mW/cm^2, a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

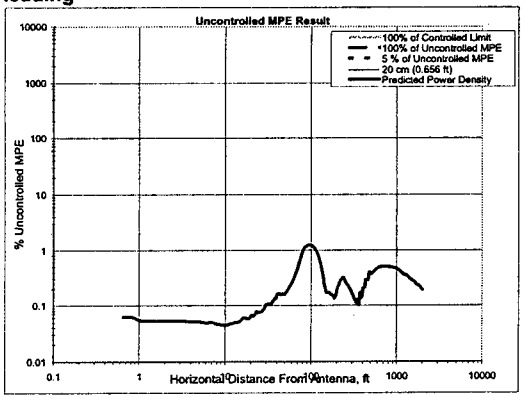
[2] 47 U.S. C. Section 332 (c) (7)(B)(iv) states that "[n]o State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that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

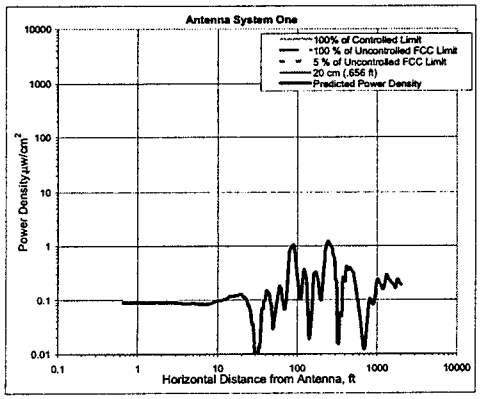
7. FCC Limits for Maximum Permissible Exposure

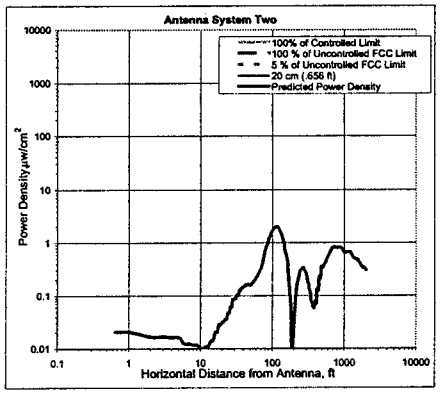


8. Exhibit A

Heading







Number of Antenna Systems: 6

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		@Horiz. Dist.
	mW/cm^2	% of limit	feet
Maximum Power Density =	0.007683	1.23	90.00
81.61 times lower than the MPE limit for uncontrolled environment			
Composite Power (ERP) =	23,510.00 Watts		

Site ID: 907-007-851
Site Name: Berlin West
Site Location: 1684 Chamberlain Hwy.
Berlin, CT 06037

Performed By: Galen Belen
Date: 6/20/02

Antenna System One

	units	Value
Frequency	MHz	1945.00
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	5.60
(Center of Radiator)	feet	75.00
Calculation Point (above ground or roof surface)	feet	0.00
		0.00
		0.00
Antenna Model No.		Allgon 7250.02
Max Ant Gain	dBd	16.50
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	72.45
WOS?	Y/N?	n

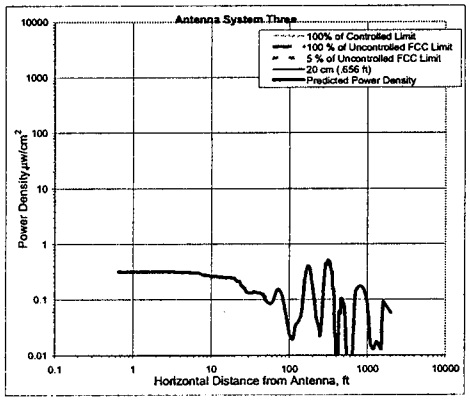
Ant System ONE Owner: AT&T
Sector: 3
Azimuth: 0/120/240

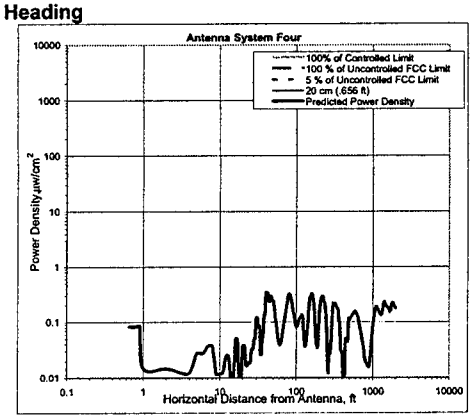
Antenna System Two

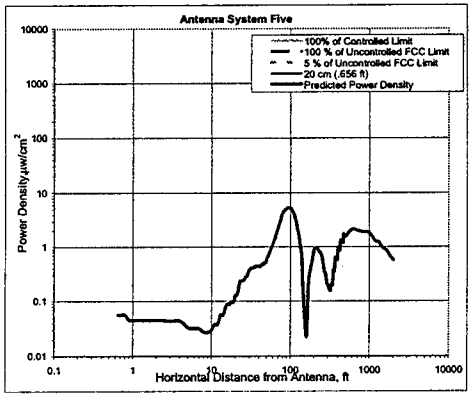
	units	Value
Frequency	MHz	850.00
# of Channels	#	16
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	15.77
(Center of Radiator)	feet	115.00
Calculation Point (above ground or roof surface)	feet	0.00
		0.00
		0.00
Antenna Model No.		DB844H90-XY
Max Ant Gain	dBd	12.00
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.00
Ant HBW	degrees	90.00
Distance to Ant_{bottom}	feet	113.00
WOS?	Y/N?	n

Ant System TWO Owner: Nextel
Sector: 3
Azimuth 30/150/270

Heading







Antenna System Three

	units	Value
Frequency	MHz	1950.00
# of Channels	#	12
Max ERP/Ch	Watts	500.00
Max Pwr/Ch Into Ant.	Watts	15.45
(Center of Radiator)	feet	125.00
Calculation Point (above ground or roof surface)	feet	0.00
		0.00
		0.00
Antenna Model No.		DB980H90E
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	122.50
WOS?	Y/N?	n

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

Antenna System Four

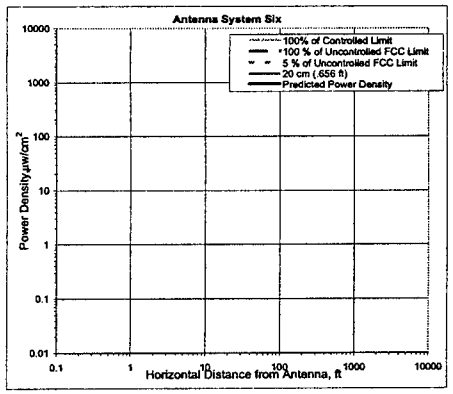
	units	Value
Frequency	MHz	1930.00
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	9.08
(Center of Radiator)	feet	105.00
Calculation Point (above ground or roof surface)	feet	0.00
		0.00
		0.00
Antenna Model No.		RR901700
Max Ant Gain	dBd	14.40
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.66
Ant HBW	degrees	90.00
Distance to Ant_{bottom}	feet	102.67
WOS?	Y/N?	n

Ant System Four Owner: VoiceStream
Sector: 3
Azimuth: 30/150/270

Antenna System Five

	units	Value
Frequency	MHz	890.00
# of Channels	#	30
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	15.77
(Center of Radiator)	feet	95.00
Calculation Point (above ground or roof surface)	feet	0.00
		0.00
		0.00
Antenna Model No.		DB844H80-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	93.00
WOS?	Y/N?	n

Ant System Five Owner: Verizon
Sector: 3
Azimuth: 27/147/267



Antenna System Six

	units	Value
Frequency	MHz	2400.00
# of Channels	#	2
Max ERP/Ch	Watts	5.00
Max Pwr/Ch Into Ant	Watts	0.42
(Center of Radiator)	feet	85.00
Calculation Poin	feet	0.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		OD12-2400
Max Ant Gain	dBd	10.80
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	4.00
Ant HBW	degrees	360.00
Distance to Ant_{bottom}	feet	83.00
WOS?	Y/N?	n

Ant System SIX Owner: Municipality
Sector: 3
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: 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.