

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-019-020531** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 116 Grant Hill Road, Brooklyn, Connecticut.

Dear Attorney Fisher:

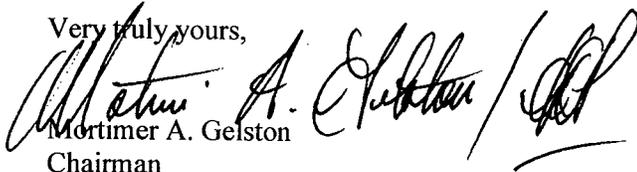
At a public meeting held on July 11, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice received in our office on 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 Maurice F. Bowen, First Selectman, Town of Brooklyn  
Chester Dobrowski, Zoning Enforcement Officer, Town of Brooklyn  
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC  
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae

**CUDDY & FEDER & WORBY LLP**

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FISHKILL, NEW YORK 12524  
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STAMFORD, CONNECTICUT  
NORWALK, CONNECTICUT

**CUDDY & FEDER**  
1971-1995

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RUTH E. ROTH  
JENNIFER L. VAN TUYL  
CHAUNCEY L. WALKER (also CA)  
ROBERT L. WOLFE  
DAVID E. WORBY

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MICHAEL R. EDELMAN  
ANDREW A. GLICKSON (also CT)  
ROBERT L. OSAR (also TX)  
MARYANN M. PALERMO  
ROBERT C. SCHNEIDER  
LOUIS R. TAFFERA

NEIL J. ALEXANDER (also CT)  
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THOMAS R. BEIRNE (also DC)  
THOMAS M. BLOOMER  
JOSEPH P. CARLUCCI  
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JOSHUA J. GRAUER  
WAYNE E. HELLER (also CT)  
KENNETH F. JURIST  
MICHAEL L. KATZ (also NJ)  
JOSHUA E. KIMERLING (also CT)  
DANIEL F. LEARY (also CT)  
BARRY E. LONG

June 27, 2002

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members  
of the Siting Council

Connecticut Siting Council

10 Franklin Square

New Britain, Connecticut 06051

**RECEIVED**

JUN 28 2002

**CONNECTICUT  
SITING COUNCIL**

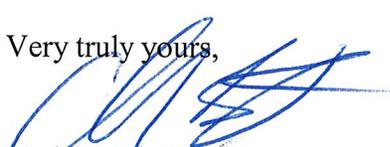
Re: AT&T Wireless EM-AT&T-019-020531  
116 Grant Hill Road, Brooklyn, Connecticut

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On behalf of AT&T Wireless, enclosed please find minutes of the January 5, 2000 meeting of the Town of Brooklyn Planning and Zoning Commission at which the above referenced tower facility received approval. Given the Council's prior correspondence, this facility predates the need for a certificate or petition with respect to the tower portion thereof.

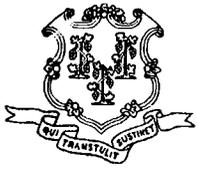
Accordingly, we would appreciate it if this matter was removed from the table at the next meeting of the Council for acknowledgment. Should you or the Council have any questions or require any additional information, please do not hesitate to contact us.

Very truly yours,

  
Christopher B. Fisher

Encls.

cc: Joanne Desjardins, Pinnacle Site Development



# 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](mailto:siting.council@po.state.ct.us)

Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

May 31, 2002

Honorable Maurice F. Bowen  
First Selectman  
Town of Brooklyn  
Town Hall  
P. O. Box 356  
Brooklyn, CT 06234-0356

RE: **EM-AT&T-019-020531** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 116 Grant Hill Road, Brooklyn, Connecticut.

Dear Mr. Bowen:

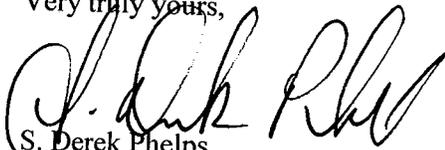
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for June 25, 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: Chester Dobrowski, Zoning Enforcement Officer, Town of Brooklyn

**NOTICE OF INTENT TO MODIFY AN  
EXISTING TELECOMMUNICATIONS FACILITY AT  
116 GRANT HILL ROAD, BROOKLYN, 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 116 Grant Hill Road, Brooklyn, Connecticut (the "Grant Hill Road Facility"), owned by Sprint Sites USA ("Sprint"). AT&T Wireless and Sprint have agreed to share the use of the Grant Hill Road Facility, as detailed below.

**The Grant Hill Road Facility**

The Grant Hill Road Facility consists of an approximately one hundred fifty (150) foot monopole (the "Tower") and associated equipment currently being used for wireless communications use by Sprint and VoiceStream. A chain link fence surrounds the Tower compound. The current surrounding land uses are predominantly residential.

**RECEIVED**

MAY 3 1 2002

**AT&T Wireless' Facility**

As shown on the enclosed plans prepared by URS Corporation including a site plan and tower elevation of the Grant Hill 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. AT&T Wireless will install 6 panel antennas at approximately the 127 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. 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**

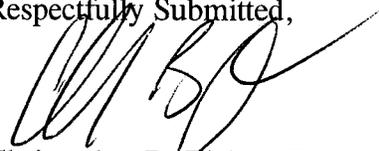
The proposed addition of AT&T Wireless' antennas and equipment to the Grant Hill Road Facility constitutes an exempt "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d) and Council regulations promulgated pursuant thereto. Addition of AT&T Wireless' antennas 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 more at the Tower site's boundary. As set forth in an Emissions Report prepared by Satish Bhandare, 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**

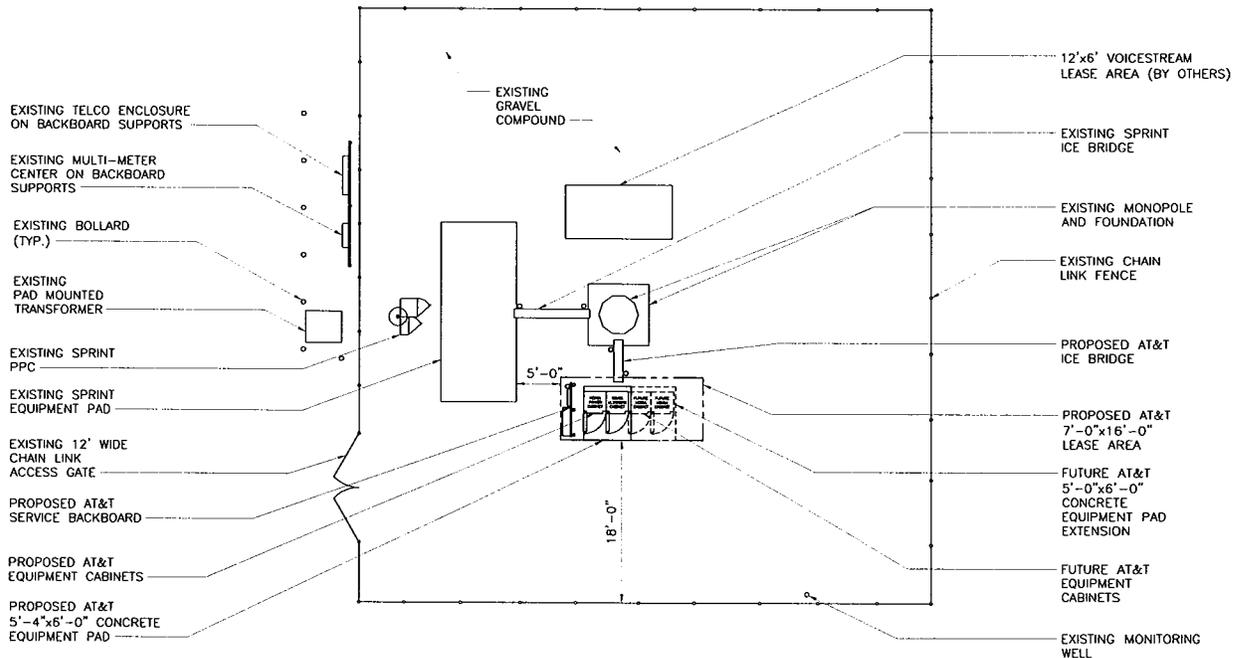
Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the Grant Hill Road Facility meets the Council's exemption criteria.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'C. Fisher', written over a horizontal line.

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

cc: First Selectman, Town of Brooklyn  
Joanne Desjardins, Pinnacle



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



ISSUED FOR SITING COUNCIL

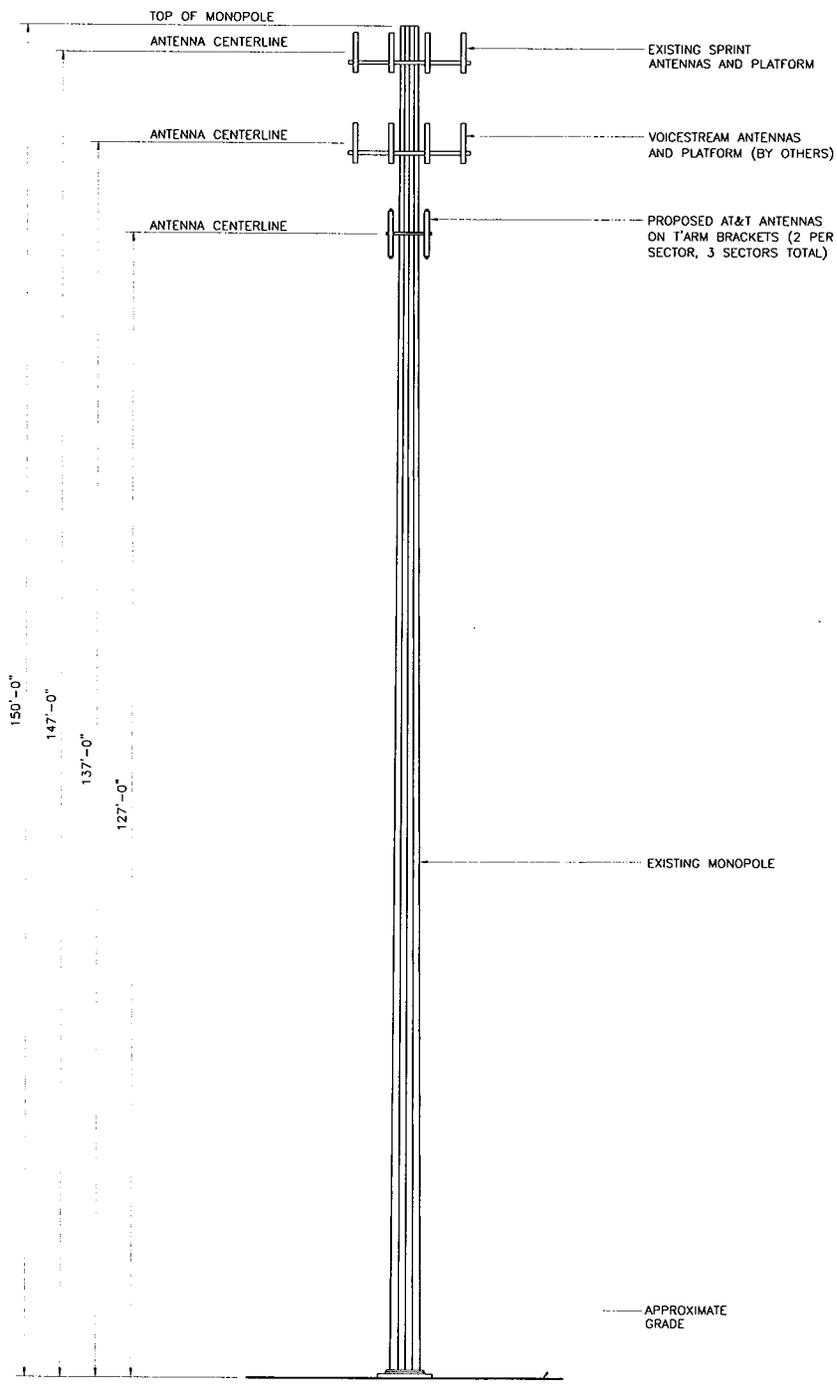
LATITUDE: 41.79150 (NAD 83)  
LONGITUDE: 72.01517 (NAD 83)

**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:** BROOKLYN WEST  
CT-705  
116 GRANT HILL ROAD  
BROOKLYN, CT  
**PROPERTY OWNER:** SPRINT SITES USA  
535 CRESCENT AVENUE  
RAMSEY, NY 07746

DRAWING TITLE: 907-009-705A-SC1	
REVISION NO. 0	DRAWN BY: KJB
DATE ISSUED: 05/17/02	CHECKED BY: JCF
SCALE: AS NOTED	APPROVED BY:
	SHEET NO. 1 OF 2
URS JOB NO.: F302224.31	



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



ISSUED FOR SITING COUNCIL

LATITUDE: 41.79150 (NAD 83)  
 LONGITUDE: 72.01517 (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:** BROOKLYN WEST  
 CT-705  
 116 GRANT HILL ROAD  
 BROOKLYN, CT  
**PROPERTY OWNER:** SPRINT SITES USA  
 535 CRESCENT AVENUE  
 RAMSEY, NY 07746

<b>DRAWING TITLE:</b> 907-009-705A-SC2	
REVISION NO. 0	DRAWN BY: KJB
DATE ISSUED: 05/17/02	CHECKED BY: JCF
SCALE: AS NOTED	APPROVED BY:
	SHEET NO. 2 OF 2
URS JOB NO.: F302224.31	



May 17, 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-705  
116 Grant Hill Road  
Brooklyn, Connecticut  
F300002224.31**

Dear Mr. Gelston:

URS Corporation AES (URS) conducted a review and evaluated the existing 150' monopole structure located at 116 Grant Hill Road in Brooklyn, 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. 6459 approved February 22, 2000. The monopole and its foundation were originally designed to support four telecommunications carriers between the elevations of 120' - 150'. The monopole currently is supporting two carriers between elevation 137' - 150'. 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	127'

It is our determination that the existing monopole and its foundation have sufficient structural capacity to support the presently installed two carriers 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



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# **RF Exposure Analysis for Proposed AT&T Wireless Antenna Facility**

SITE ID: 907-009-705

May 29, 2002

**Prepared by AT&T Wireless Services, Inc.  
Satish Bhandare, 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 116 Grant Hill Rd, Brooklyn, CT. 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: <b>Brooklyn West</b>	
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)	127.00 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<sup>1</sup>:

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

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,  $\alpha$  = 3 dB beam-width of horizontal pattern.

<sup>1</sup> RF exposure is measured and predicted in terms of power density in units of milliwatts (mW), a thousandth of a watt, or microwatts ( $\mu$  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.<sup>2</sup> 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 0.000793 mW/cm<sup>2</sup> which occurs at 100 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000020 mW/cm<sup>2</sup> 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 <sup>2</sup>	2.9 mW/cm <sup>2</sup>	0.000793 mW/cm <sup>2</sup>
PCS	1 mW/cm <sup>2</sup>	5 mW/cm <sup>2</sup>	

The maximum power density at the proposed facility represents only 0.08% of the public MPE limit for PCS frequencies.

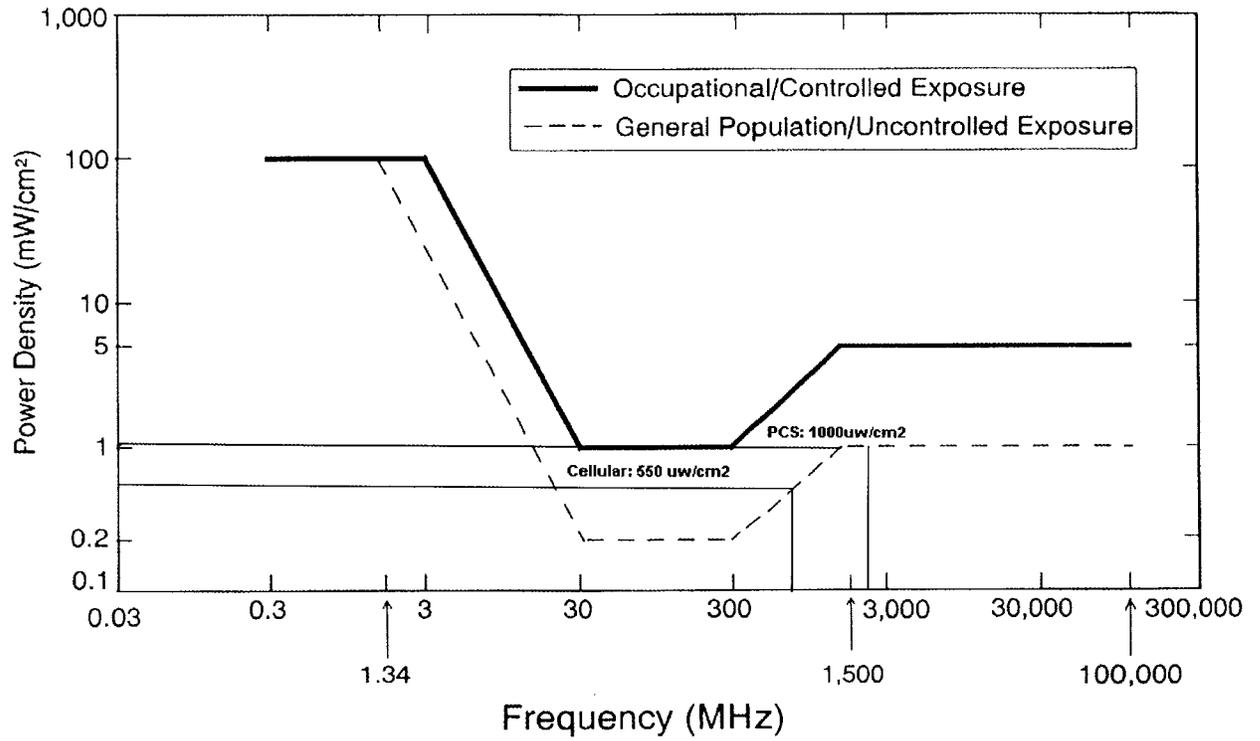
#### 6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.000793 mW/cm<sup>2</sup>, a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

<sup>2</sup> 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**

## 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:

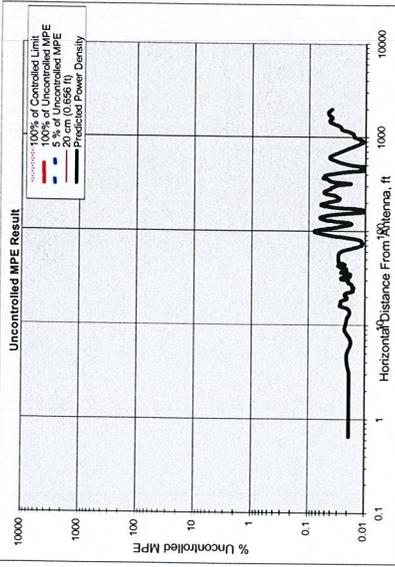
Dr. Robert Cleveland  
Federal Communications Commission  
Office of Engineering and Technology  
Washington, DC 20554

RF Safety Program: 202-418-2464  
Internet address: [rfsafety@fcc.gov](mailto:rfsafety@fcc.gov)  
RF Safety Web Site: [www.fcc.gov/oet/rfsafety](http://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.

**MPE FOR 907-009-705**



Number of Antenna Systems: 3  
Meets FCC Controlled Limits for The Antennas Systems.

Meets FCC Uncontrolled Limits for The Antennas Systems.

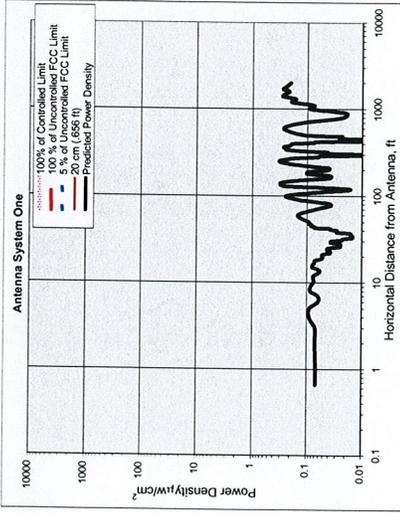
Meets 5% of FCC Uncontrolled Limits for The Antenna Systems.

No Further Maximum Permissible Exposure (MPE) Analysis Required.

Power Density mW/cm <sup>2</sup>	14.75000	Watts
Maximum Power Density =	0.00793826	% of limit
1,260.43 times lower than the MPE limit for uncontrolled environment	100.00	
Composite Power (ERP) =	14.75000	Watts

Site ID: 907-009-705  
Site Name: Brooklyn West  
Site Location: 116 Grant Hill Rd, Brooklyn, CT

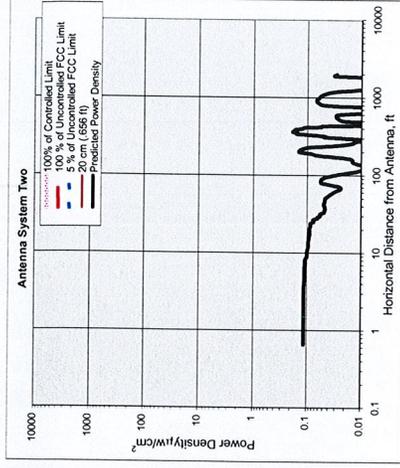
Performed By: Satish Bhandare  
Date: 5/29/02



Antenna System One

Frequency	units	Value
1945.00	MHz	12
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch into Ant.	Watts	5.98
(Center of Radiator)	feet	127.00
Calculation Point	feet	0.00
(above ground or	feet	0.00
roof surface)	feet	0.00
Antenna Model No.		Alpaon 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 <sub>top</sub>	feet	124.45
WOS?	Y/N?	n

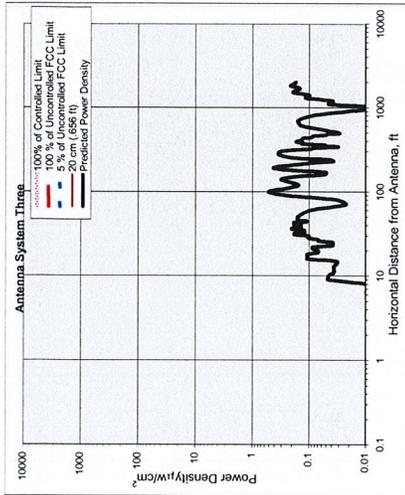
Ant System ONE Owner: AT&T  
Sector: 3  
Azimuth: 0120/240



Antenna System Two

Frequency	units	Value
1950.00	MHz	12
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch into Ant.	Watts	7.73
(Center of Radiator)	feet	147.00
Calculation Point	feet	0.00
(above ground or	feet	0.00
roof surface)	feet	0.00
Antenna Model No.		DBS80H90
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 <sub>top</sub>	feet	144.50
WOS?	Y/N?	n

Ant System TWO Owner: Sprint PCS  
Sector: 3  
Azimuth: 0120/240



Antenna System Three

Parameter	units	Value
Frequency	MHz	1970.00
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant	Watts	9.08
Max Pwr/Ch Into Ant (Center of Radiator)	feet	137.00
Calculation Point (above ground or roof surface)	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 horizon	feet	134.67
WOS?	Y/N?	n

Ant System Three Owner: Voicestream  
Sector: 3  
Azimuth: 0120/240

AT&T 116 Grant Hill Road, Brooklyn 6-13-02

