



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

September 6, 2002

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

RE: **EM-AT&T-014-020814** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 150 North Main Street, Branford, Connecticut.

Dear Attorney Fisher:

At a public meeting held on September 5, 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 August 14, 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 Anthony J. DaRos, First Selectman, Town of Branford
Justine K. Gillen, Zoning Enforcement Officer, Town of Branford
Diana Ross, Inland Wetland Enforcement Officer
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC
Michele G. Briggs, Southwestern Bell Mobile Systems
Thomas F. Flynn III, Nextel Communications



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August 20, 2002

Honorable Anthony J. DaRos
First Selectman
Town of Branford
Town Hall
1019 Main Street
P. O. Box 150
Branford, CT 06405-0150

RE: **EM-AT&T-014-020814** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 150 North Main Street, Branford, Connecticut.

Dear Mr. DaRos:

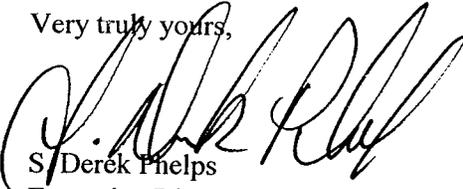
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting tentatively scheduled for September 5, 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/slm

Enclosure: Notice of Intent

c: Justine K. Gillen, Zoning Enforcement Officer, Town of Branford
Diana Ross, Inland, Wetland Enforcement Officer

RECEIVED
AUG 14 2002

CONNECTICUT
SITING COUNCIL

**NOTICE OF INTENT TO MODIFY AN
EXISTING TELECOMMUNICATIONS FACILITY AT
150 NORTH MAIN STREET, BRANFORD, 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 150 North Main Street, Branford, Connecticut (the "North Main Street Facility"), owned by Sprint Sites USA ("Sprint"). AT&T Wireless and Sprint have agreed to share the use of the North Main Street Facility, as detailed below.

The North Main Street Facility

The North Main Street Facility consists of an approximately one hundred forty-seven (147) foot monopole (the "Tower") and associated equipment currently being used and/or reserved for future use for wireless communications by Cingular, Sprint and Nextel.¹ A chain link fence surrounds the Tower compound.

AT&T Wireless' Facility

As shown on the enclosed plans prepared by Natcomm, LLC, including a compound plan and tower elevation of the North Main Street Facility, AT&T Wireless proposes shared use of the Facility by placing antennas on the Tower and equipment cabinets at grade needed to provide personal communications services ("PCS"). 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) located on a concrete pad within an expanded fenced compound. The expansion of the fenced compound is within Sprint's lease parcel and will not extend the existing Tower Facility boundaries. As evidenced in the structural analysis prepared by Natcomm, LLC, annexed hereto as Exhibit B, 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 North Main 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

¹ Metricom and Pagenet were approved by the Council but will not be installing antennas on the tower, See letter from Sprint Sites USA annexed hereto as Exhibit A

Prabhakar Kumar Rughoobur, RF 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

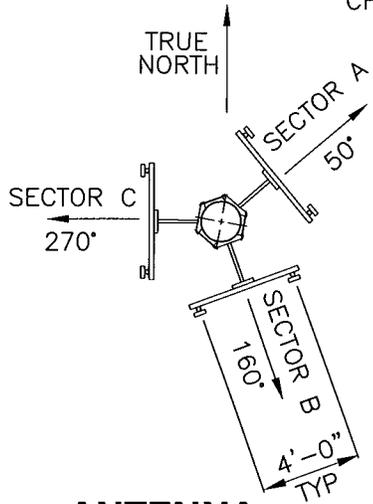
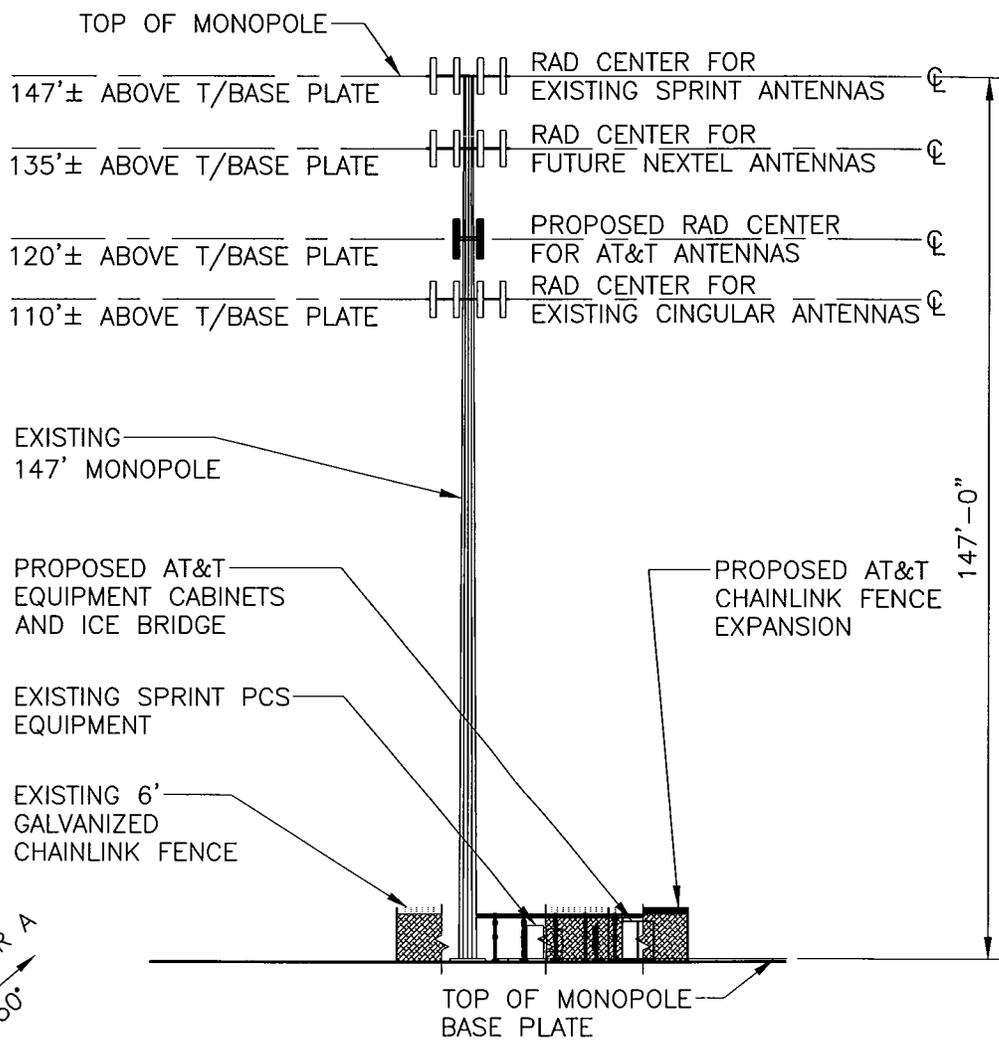
Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the North Main Street Facility meets the Council's exemption criteria.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read 'C.B. Fisher', is written over the typed name.

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

cc: First Selectman, Town of Branford
RJ Wetzal, Bechtel



MONOPOLE TOWER

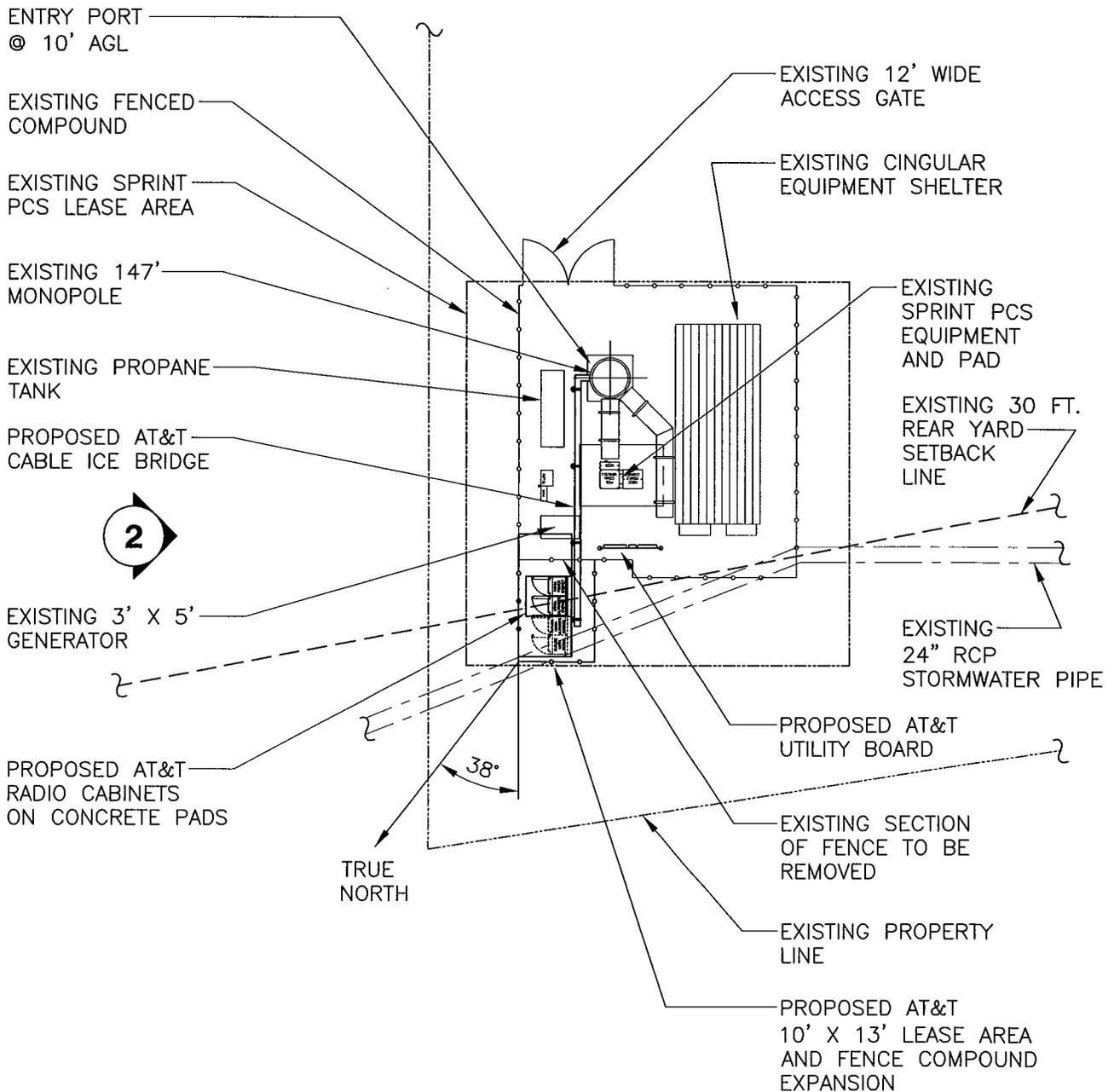
2 TOWER ELEVATION
SCALE: 1" = 30'-0"

ANTENNA CONFIGURATION

"ISSUED FOR SITING COUNCIL"

<p>Natcomm, LLC 63-2 North Branford Road Branford, Connecticut 06405 Tel. (203) 488-0580 Fax (203) 488-8587 Consulting Engineers · Project Management Civil · Structural · Mechanical · Electrical</p>	<p>AT&T AT&T WIRELESS PCS LLC 12 OMEGA DRIVE STAMFORD, CONNECTICUT 06907</p>	<p>DRAWING TITLE: SITING COUNCIL</p>	<p>DRAWING NO. 913-008-198A-SC 2</p>						
		<p>PROJECT INFORMATION: BRANFORD CT-198 150 NORTH MAIN STREET BRANFORD, CT 06405</p>	<table border="1"> <tr> <td>REVISION NO. 2</td> <td>DRAWN BY: CMS</td> </tr> <tr> <td>DATE ISSUED: 08/08/02</td> <td>CHECKED BY: JJP</td> </tr> <tr> <td>SCALE: AS NOTED</td> <td>APPROVED BY: CFC</td> </tr> <tr> <td colspan="2">SHEET NO. 2 OF 2</td> </tr> </table>	REVISION NO. 2	DRAWN BY: CMS	DATE ISSUED: 08/08/02	CHECKED BY: JJP	SCALE: AS NOTED	APPROVED BY: CFC
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DATE ISSUED: 08/08/02	CHECKED BY: JJP								
SCALE: AS NOTED	APPROVED BY: CFC								
SHEET NO. 2 OF 2									
<p>LESSOR: SSUSA 535 E CRESCENT AVE RAMSEY NJ 07446</p>		<p>A/E PROJECT NO: 478A</p>							

X:\HALLEB.dwg 9/15/02 10:46:25 am EST



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

NOTE:
LATITUDE: 41° 17' 18.8"
LONGITUDE: 72° 48' 49.6"

"ISSUED FOR SITING COUNCIL"

 <p>Natcomm, LLC 63-2 North Branford Road Branford, Connecticut 06405 Tel. (203) 488-0580 Fax (203) 488-8587 Consulting Engineers: Project Management Civil - Structural - Mechanical - Electrical</p>	 <p>AT&T AT&T WIRELESS PCS LLC 12 OMEGA DRIVE STAMFORD, CONNECTICUT 06907</p>	<p>DRAWING TITLE: SITING COUNCIL</p>	<p>DRAWING NO. 913-008-198A-SC1</p>	
		<p>PROJECT INFORMATION: BRANFORD CT-198 150 NORTH MAIN STREET BRANFORD, CT 06405</p>	<p>REVISION NO. 2 DRAWN BY: CMS</p>	
<p>LESSOR: SSUSA 535 E CRESCENT AVE RAMSEY NJ 07446</p>		<p>DATE ISSUED: 08/08/02 CHECKED BY: JJP</p>	<p>SCALE: AS NOTED APPROVED BY: CFC</p>	
		<p>SHEET NO. 1 OF 2</p>		
		<p>A/E PROJECT NO: 478A</p>		



SPRINT SITES USA
NJRAMA0101
535 EAST CRESCENT AVE NUR
RAMSEY, NEW JERSEY 07446
Voice 201 995 4000
Fax 201 995 4001

Hollis Redding
Pinnacle Site Development
41 Sequia Drive
Glastonbury, CT 06033

RE: SprintSite # CT03xc040

150 North Main Street Branford, CT 06405

Dear Hollis,

Please be advised that Moticom will not be installing any equipment at the above referenced site as they have filed for bankruptcy and their lease with us is no longer valid.

Furthermore, although Fagenet has a signed lease with us that dates back to August of 1999, they have never installed any equipment on this site and have not shown any intention to do so. Due to the age of their application and lease, as well as the many changes made in technology in the last 3 years, SprintSites, USA has placed Fagenet's application ON HOLD. When, and if, Fagenet ever decides to install any equipment at this site, a complete review including structural analysis will be required before any Notice to Proceed with construction will be issued.

For the reasons mentioned above, SprintSites has not required ATT to include these carriers in the loading for ATT to analyze at this site.

We hope this explanation clarifies our position at this site. Please feel free to contact us with any questions.

Very truly yours,

A handwritten signature in cursive script that reads "Russ Van Oudenaren".

Russ Van Oudenaren
Senior Implementation Engineer, Northeast Region
SprintSites, USA
535 East Crescent Ave
Ramsey, NJ 07446

201-995-4023

Structural Tower Analysis

Existing Monopole Tower

Type "12 sided tapered monopole"

*150' Summit Tower To Support Additional Antenna
Loads*

*150 N. Main St.
Branford, CT 06405*

Natcomm Project No. 478A

*Report Date: February 5, 2002
Revision 1 - August 8, 2002*

Client:

AT&T Wireless PCS LLC
12 Omega Drive
Stamford, CT 06907

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Introduction

The purpose of this report is to summarize the results of the structural analysis performed on the existing 150' monopole tower to determine the effects of adding the following antenna types to the structure:

- AT&T: Six (6) Allgon 7250 antennas mounted to T-arm at an elevation of 120' (+/-).

The existing antenna configuration provided

- Sprint: Nine (9) DB980H90 antennas mounted to low profile platform at an elevation of 147' (+/-).
- Nextel: Twelve (12) DB844H90 antennas mounted to low profile platform at an elevation of 135' (+/-).
- SNET: Twelve (12) Allgon 7120.16 antennas mounted to low profile platform at an elevation of 110' (+/-).

The tower carries the horizontal and vertical loads due to the weight of antennas, transmissions lines, ice load and wind.

Primary assumptions used in the analysis

- Allowable steel stresses are defined by AISC-ASD 9th Edition.
- Ultimate strength of anchor bolts is assumed to be 110 ksi.
- Yield strength of base plate steel is assumed to be 50 ksi.
- All tower members adequately galvanized to prevent corrosion of steel members
- All proposed antenna mount are modeled as listed above.
- No residual stresses due to incorrect tower erection.
- All bolts are appropriately tightened providing the necessary connection continuity.
- All welds conform to the requirements of AWS D1.1.
- Any deviation from the analyzed antenna loading will require a tower analysis for verification of structural integrity.

Analysis

The existing tower was analyzed using a comprehensive computer program entitled "SAFI". The program analyzes the tower, considering the worst case loading condition. The tower is considered as loaded by concentric forces along the centerline of the monopole mast the model assumes that the tower sections are subjected to bending, axial, and shear forces.

The tower analysis was based on the existing Summit Manufacturing Inc. design drawing Job #29299 dated March 15, 1999.

The existing tower was analyzed for 85mph basic wind speed with no ice and 75% of the 85mph wind load with ice to determine stresses in members as per guidelines of TIA/EIA-222- F - 1996 edition.

Results

1- Shaft section:

- Based on our analysis and other checks, the stresses of the tower's sections meet all the requirements as per TIA/EIA-222-F standards.

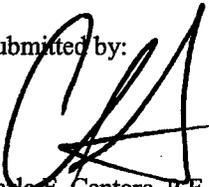
2- Tower's Foundation:

- Base plate, anchor bolts and footing dimension meet the safety factor requirement as per TIA/EIA-222-F standards.

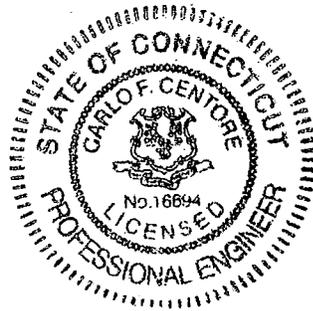
Conclusions

The existing 150 ft monopole is adequate to support the proposed load. It is dually noted that the tower will be at its full capacity upon adding of AT&T's antennas. Any changes in antenna model, number or elevation render this report is invalid. If there are any questions regarding this matter, please feel free to call.

Submitted by:



Carlo F. Centore, P.E.
Senior Project Manager



Prepared by:



Emad M. Mourad, P.E.
Structural Engineer



RF Exposure Analysis for Proposed AT&T Wireless Antenna Facility

SITE ID: 913-008-198

August 1, 2002

**Prepared by AT&T Wireless Services, Inc.
Prabhakar Kumar Rughoobur 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 150 North Main St, Branford, CT 06405. 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: Branford	
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)	120.00 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 0.003967 mW/cm² which occurs at 700 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000584 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	0.003967 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.

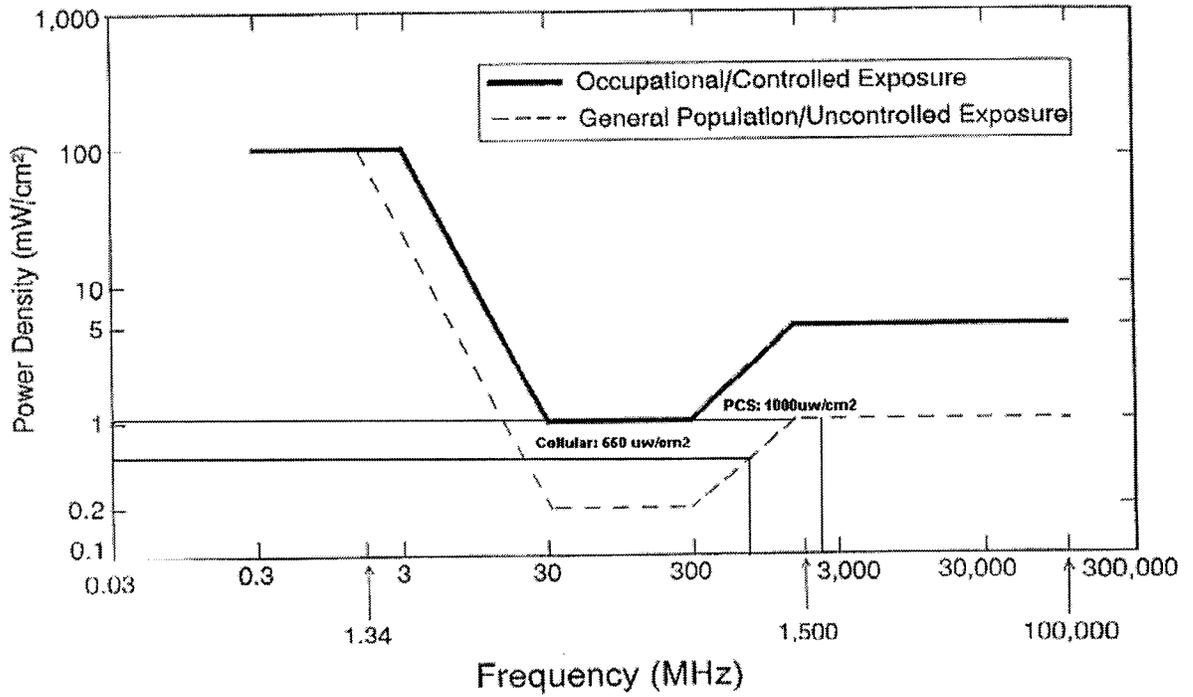
6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.003967 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.”

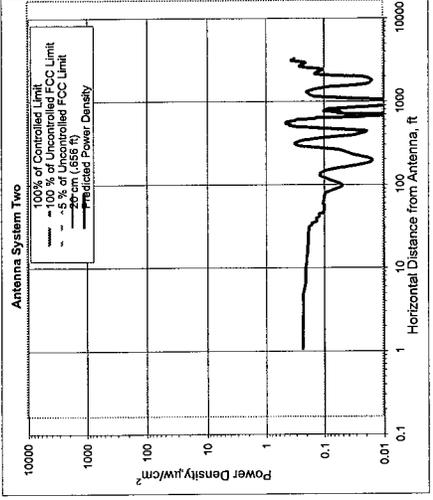
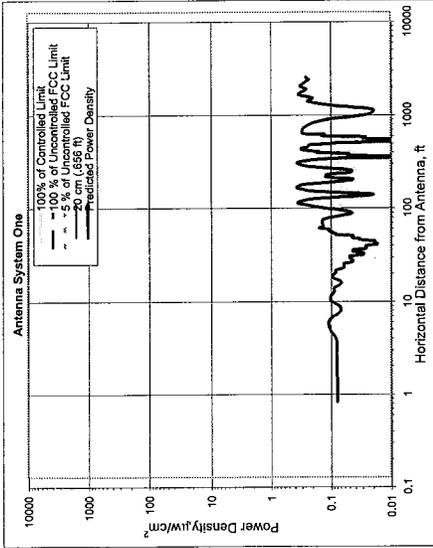
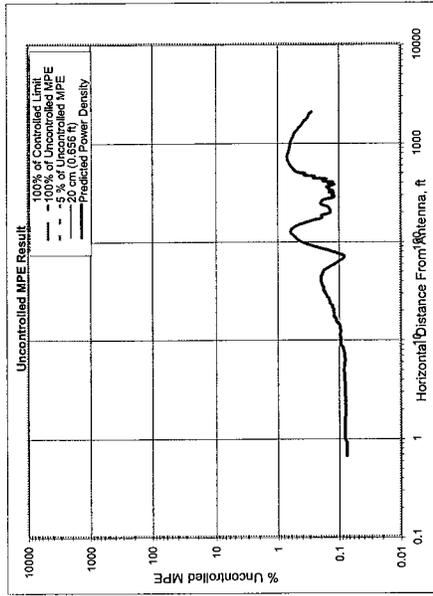
7. FCC Limits for Maximum Permissible Exposure

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



AT&T Wireless Services, Inc.

8. Exhibit A



Number of Antenna Systems: 4
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	mW/cm²	@Hortz. Dist.
Maximum Power Density =	0.003967	% of limit
149.79 times lower than the MPE limit for uncontrolled environment	0.67	700.00
Composite Power (ERP) =	24,000.00	Watts

Site ID: 913-008-198
Site Name: Branford
Site Location: 150 N Main St
Branford, CT 06405

Performed By: Prabhakar Kumar Rughobur
Sector: 3
Azimuth: 50/160/270

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

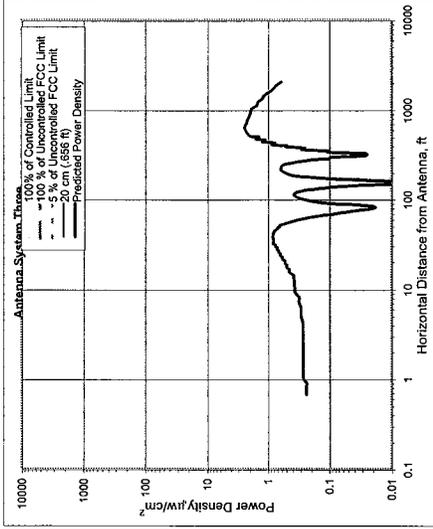
Antenna System One

Frequency	units	Value
1945.00	MHz	1945.00
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	5.86
(Center of Radiator)	feet	120.00
Calculation Point	feet	0.00
(above ground or roof surface)		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	feet	117.45
WOS?	Y/N?	N

Antenna System Two

Frequency	units	Value
1950.00	MHz	1950.00
# of Channels	#	12
Max ERP/Ch	Watts	500.00
Max Pwr/Ch Into Ant.	Watts	15.45
(Center of Radiator)	feet	147.00
Calculation Point	feet	0.00
(above ground or roof surface)		0.00
Antenna Model No.		DS980G90
Max Ant Gain	dBd	15.10
Down tilt	degrees	2.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.00
Ant HBW	degrees	90.00
Distance to Ant	feet	144.50
WOS?	Y/N?	N

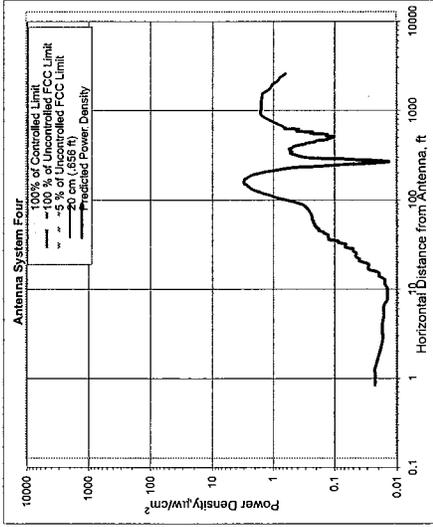
Ant System TWO Owner: Sprint
Sector: 3
Azimuth: 0/120/240



Antenna System Three

Frequency	units	Value
880.00	MHz	880.00
# of Channels	#	30
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant	Watts	19.86
Max Pwr/Ch Into Ant (Center of Radiator)	feet	110.00
Calculation Point (above ground or roof surface)	feet	0.00
Antenna Model No.		A13097120.16
Max Ant Gain	dBd	11.00
Down tilt	degrees	0.00
Miscellaneous Alt.	dB	0.00
Height of aperture	feet	4.33
Ant HBW	degrees	110.00
Distance to Ant horizon	feet	107.84
WGS?	Y/N?	N

Ant System Three Owner: SNET
Sector: 3
Azimuth: 231/43/263



Antenna System Four

Frequency	units	Value
851.00	MHz	851.00
# of Channels	#	30
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant	Watts	15.77
Max Pwr/Ch Into Ant (Center of Radiator)	feet	135.00
Calculation Point (above ground or roof surface)	feet	0.00
Antenna Model No.		DB544H90.XY
Max Ant Gain	dBd	12.00
Down tilt	degrees	2.00
Miscellaneous Alt.	dB	0.00
Height of aperture	feet	4.00
Ant HBW	degrees	90.00
Distance to Ant horizon	feet	133.00
WGS?	Y/N?	N

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

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.