

PETITION FOR A DECLARATORY RULING)
THAT A MODIFICATION TO AN EXISTING)
CONNECTICUT LIGHT & POWER LATTICE)
TRANSMISSION TOWER IN WALLINGFORD,)
CONNECTICUT, DOES NOT REQUIRE A)
CERTIFICATE OF ENVIRONMENTAL)
COMPATIBILITY AND PUBLIC NEED AS)
THE PROPOSED MODIFICATION)
WILL NOT HAVE A SUBSTANTIAL)
ADVERSE ENVIRONMENTAL EFFECT)

December 19, 2002

RECEIVED

DEC 26 2002

**CONNECTICUT
SITING COUNCIL**

AT&T Wireless PCS, Inc. ("AT&T Wireless" or the "Petitioner") hereby petitions the Connecticut Siting Council for a determination that a Certificate of Environmental Compatibility and Public Need (the "Certificate") is not required pursuant to Section 16-50g. et seq. of the General Statutes of Connecticut for the modification of the Connecticut Light & Power ("CL&P") transmission tower described herein. AT&T Wireless submits that no such Certificate is required because the proposed modification will not have a substantial adverse environmental effect.

AT&T Wireless as Petitioner

AT&T Wireless is the "D&E block" Wideband PCS license holder for the 2 GHz PCS frequencies for the greater New York City area, which includes New Haven County, Connecticut. AT&T has been authorized by the Federal Communications Commission ("FCC") to construct and operate digital mobile radio systems in the State of Connecticut. AT&T is a provider of Personal Communication Services ("PCS" Service) combining traditional mobile telephone and enhanced digital services into a single user handset. The proposed modification is in support of AT&T's construction and build-out of its wireless network to fill coverage gaps in its federally licensed service area, which includes the Town of Wallingford.

Description of the Project

As shown on the enclosed plans prepared by Tectonic/Keyes Associates, including a plot plan, site detail plan and elevation, AT&T Wireless proposes installing six panel antennas on an extension mast to an overall elevation of approximately 94.6' AGL. Three panel antennas will be mounted at the 86' level and three panel antennas will be mounted at the 92' of the extension mast attached to the existing CL&P transmission tower. Associated unmanned equipment cabinets will be located on a concrete pad in a fenced compound near the base of the existing tower located at 989 Church Street in Wallingford, Connecticut (collectively referred to as the "Facility"). The antennas will extend approximately fifteen (15) feet above the top of the existing tower.

The existing access driveway will be nominally extended for direct access to the equipment cabinets for construction activities and routine maintenance. Power and telephone lines will be routed underground from an existing distribution pole to the equipment cabinets. All proposed construction activities are within the existing CL&P easement over property owned by the City of Meriden. Current land uses surrounding the Facility area include transmission towers, high voltage lines, right-of-way, Route 68 and residential uses.¹

The Facility will not have a Substantial Adverse Environmental Effect

The Facility involves an increase of approximately fifteen (15) feet above the existing tower to 94.6± feet above ground level, which will not cause a substantial adverse environmental impact. The existing transmission tower in conjunction with similar structures supports two 115-kv CL&P transmission circuits in the project area. The proposed Facility will not create a structure in the landscape that is out of scale vertically with the surrounding landscape.

The limits of disturbance of all construction activities will be confined to the minimum extent possible. The shortest distance possible for utility routing is proposed to limit disturbance. All erosion and sediment control measures shall be installed, when necessary, in accordance with the "Connecticut Guidelines for Soil Erosion and Sediment Control" (Revised 1988) and amendments, as published by the Connecticut Council on Soil and Water Conservation.

The operation of the antennas will not increase the total radio frequency electromagnetic power density at the site to a level at or above the applicable standards. Annexed hereto is a Radio Frequency Emissions Report ("Emissions Report"), dated October 8, 2002, and prepared by Prabhakar Kumar Rughoobur, RF Engineer for AT&T. The Emissions Report was prepared to determine the potential public exposure to Radio Frequency energy surrounding the proposed Facility. Worst case assumptions were used to be extremely conservative and insure that actual values would be lower than those determined herein. This analysis indicates that the maximum level of RF energy to which the public may be exposed will meet all applicable Federal and State health and safety limits, including but not limited to the FCC, ANSI, IEEE, and NCRP. In fact, the Emissions Report concludes that the maximum level of RF energy associated with simultaneous and continuous operation of all proposed transmitters will be less than 0.18% of all Federal and State emission standards.

¹ According to Judy Wilson of the CTDEP, the CTDEP Wildlife Management Area sign observed on the gate to the access road leading to the site was posted by a private entity, the Meriden-Cheshire Rod and Gun Club. They manage the wildlife in that area for hunting purposes. The CTDEP issues licenses and supplies signs to organizations such as the Meriden-Cheshire Rod and Gun Club to post on their property. The Rod and Gun Club pays the CTDEP a license fee for that privilege. The sign is not, however, a legal limit or prohibition on vehicular traffic or access to the Site by CL&P or AT&T.

Conclusion

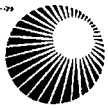
AT&T Wireless will not need to construct a telecommunications tower to provide coverage in this area of Wallingford if the Connecticut Siting Council approves the facility. The proposed Facility is consistent with legislative findings outlined in Section 16-50g and 16-50aa of the General Statutes of Connecticut that seek to avoid the unnecessary proliferation of towers in the State. For all the foregoing reasons, AT&T Wireless petitions the Connecticut Siting Council for a determination that an amendment to the existing Certificate of Environmental Compatibility and Public Need for the proposed Facility is not required for the addition of AT&T Wireless' proposed telecommunications equipment and that the Council issue an order approving same.

Respectfully Submitted,



Christopher B. Fisher
On behalf of AT&T Wireless

cc: Mayor, Town of Wallingford
RJ Wetzel, Bechtel



**Northeast
Utilities System**

107 Selden Street, Berlin, CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-5000

November 26, 2002

Mr. Harold Hewett
Site Acquisition
Bechtel Telecommunications
AT&T Wireless Project-Connecticut Market
210 Pomeroy Avenue
Meriden, CT 06450

Re: Site Permitting Authorization
Yalesville West Telecommunications Site (AWS Site CT-110.2.8)

Dear Mr. Hewett:

Authorization is hereby given to AT&T Wireless Services (AT&T), its employees and its duly authorized agents and independent contractors (hereinafter collectively referred to as "AT&T"), to apply for any and all local municipal, state and federal licenses, permits and approvals, including but not limited to Connecticut Siting Council, building permits, zoning variances, zoning special exceptions, site plan and subdivision approvals, driveway, wetlands and terrain alteration permits, which are or may be necessary or required for AT&T to construct, operate and maintain a wireless communications system (PCS System), and/or antenna site on the following property over which The Connecticut Light & Power Company (CL&P) has easement rights:

CL&P Structure #CT-110.2.8, NU Pole #2492
989 Church Street
Wallingford, Connecticut

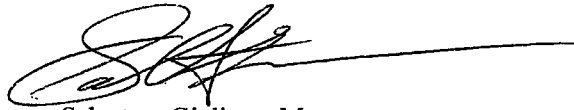
The foregoing authorization is given subject to the following conditions:

1. This authorization shall be nonexclusive. Nothing herein shall prevent or restrict CL&P from authorizing any other person or entity to apply for any similar licenses, permits or approvals to construct, operate and maintain any other communication system or facility of any type on the property at any time.
2. This authorization shall not obligate CL&P to pay for or reimburse any costs or expenses or to provide any assistance of any kind in connection with any applications, or bind or obligate CL&P to agree or be responsible for any on-site or off-site improvements, development restrictions, impact fees or assessments, capital improvement charges, bonds or other security, or any other fee, assessment, charge or expense imposed or required as a condition of any license, permit or approval. AT&T shall be solely and fully responsible for all fees, charges costs and expenses of any kind in connection with any applications. CL&P agrees to reasonably cooperate with AT&T in signing such applications or other similar documents as may be required in order for AT&T to apply for any license, permit or approval.
3. This authorization shall not be deemed or construed to grant or transfer to AT&T any interest in the property, whatsoever, and shall not in any respect obligate or require CL&P to sell, lease or license the Property to AT&T or otherwise allow AT&T to use or occupy the property for any purpose, regardless of whether any licenses, permits and approvals

applied for by AT&T for the property are granted. AT&T understands and acknowledges that any and all applications filed by AT&T for the property at AT&T's sole risk and without any enforceable expectation that the property will be made available for AT&T's use.

4. AT&T shall be required to supply to CL&P, free of charge and contemporaneous with AT&T's filing of same, a complete copy of any and all applications, plans, reports and other public filings made by AT&T with any local, municipal, state or federal governmental or regulatory officer, agency board, bureau, commission or other person or body for any licenses, permits or approvals for the property, and to keep CL&P fully informed on a regular basis of the status of AT&T's applications.
5. This authorization shall automatically expire six (6) months after the date of this letter, unless extended in writing by mutual agreement of CL&P and AT&T.

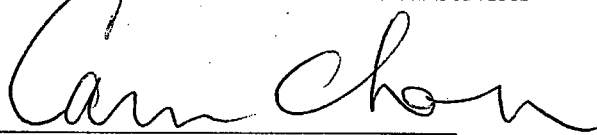
Very truly yours,



Salvatore Giuliano, Manager
Real Estate and Land Planning

AGREED TO ON BEHALF OF AT&T Wireless Services

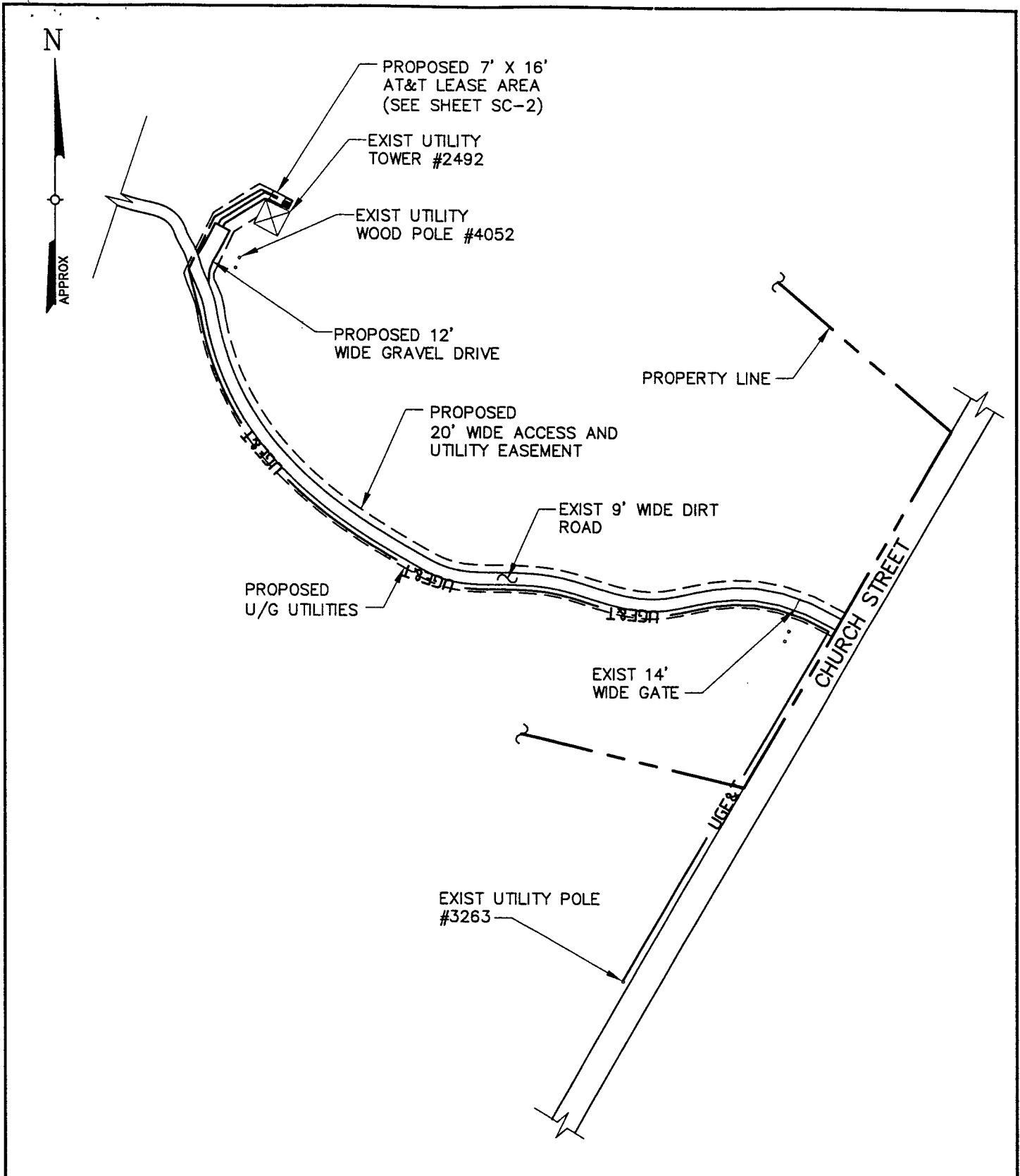
By: _____



Duly Authorized

Date: _____

12/2/02



TECTONIC/KEYES ASSOCIATES
 1344 BLAIR BEANE HIGHWAY, SUITE 200 OFFICE: 860-262-2244
 ROCKY HILL, CT 06267-1200 FAX: 860-262-2244

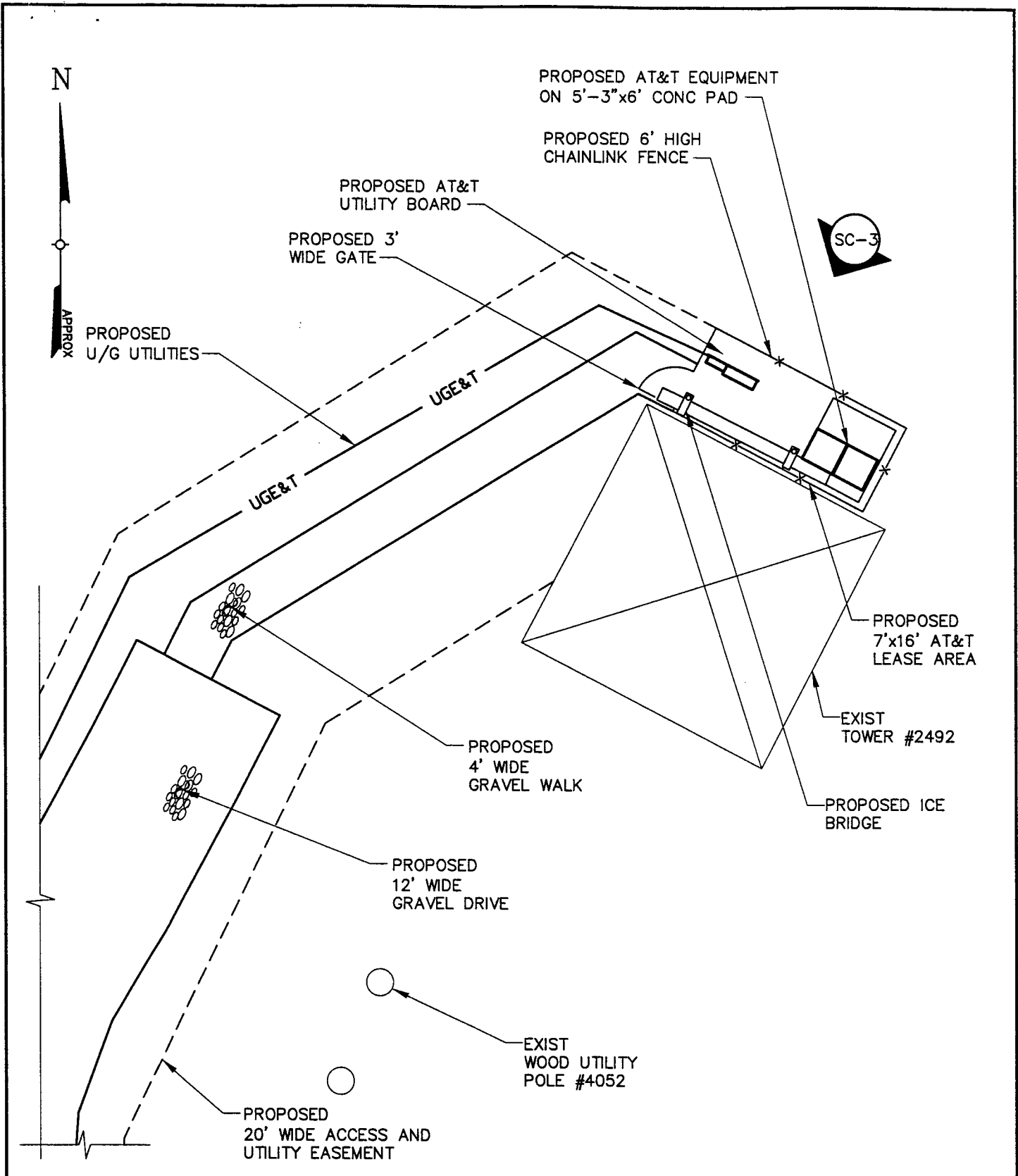


AT&T WIRELESS PCS, LLC.
 12 Orange Drive, Second Floor
 Stamford, CT 06902

DRAWING TITLE:
PARTIAL SITE PLAN
 PROJECT INFORMATION:
YALESVILLE-WEST (B)
 CT-110
 989 CHURCH STREET
 WALLINGFORD, CT 06492
 PROPERTY OWNER:
 CITY OF MERIDEN WATER DEPT
 142 EAST MAIN STREET
 MERIDEN, CT 06450

DRAWING NO.
SC-1

REVISION NO. 1	DRAWN BY: RPM
DATE: 9/30/02	CHECKED BY: MC
SCALE: 1" = 100'	APPROVED BY: JDF
ISSUED FOR LEASE	SHEET NO. 1 of 3
WORK ORDER #: 2650.CT1108	



TECTONIC/KEYES ASSOCIATES

1344 BLAND ROAD, MERIDEN, CONNECTICUT 06450 OFFICE: (203) 238-1000
 100 WEST HILL, CT 06457-0300 FAX: (203) 238-1000



AT&T

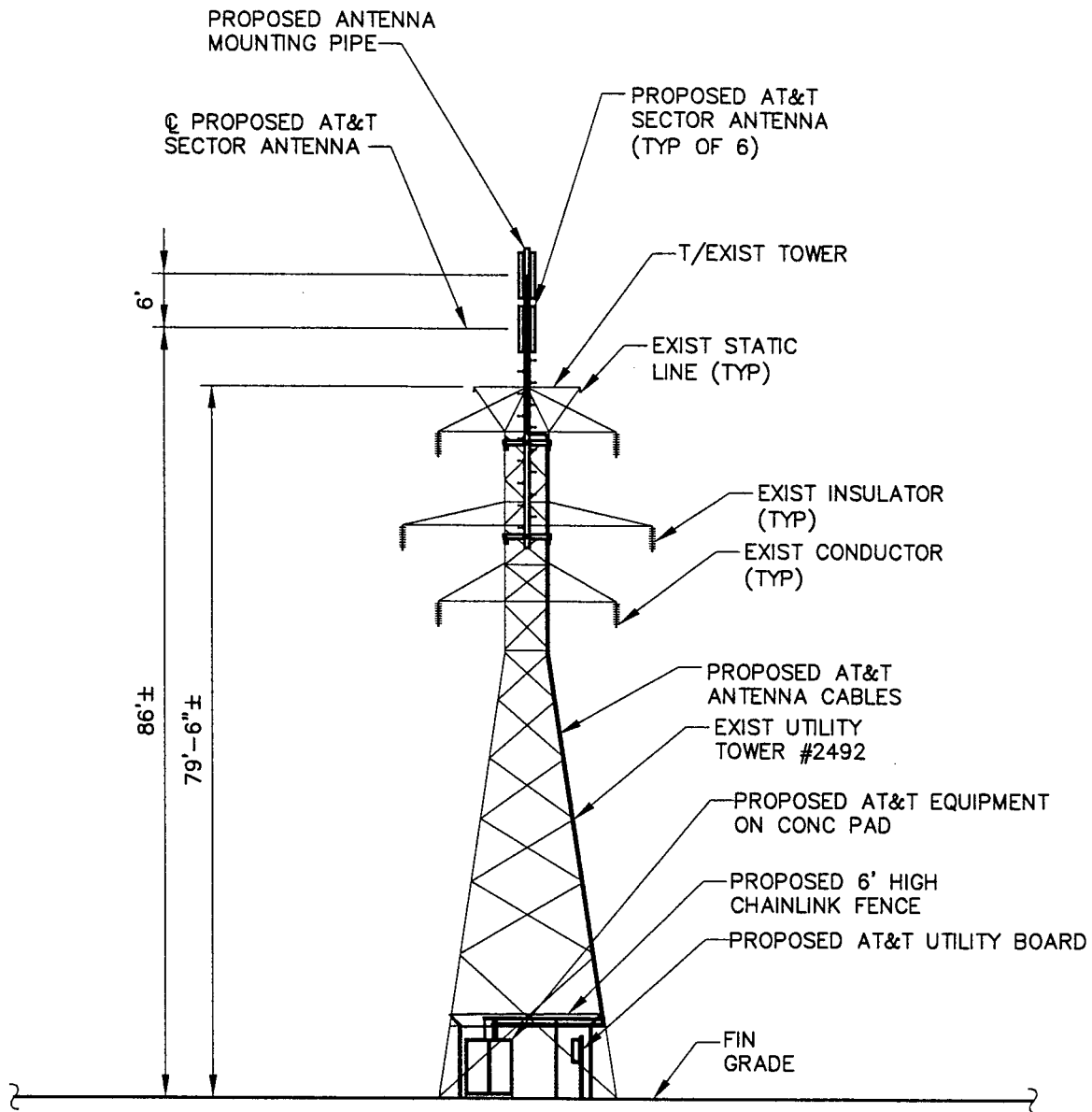
AT&T WIRELESS PCS, LLC.
 12 George Drive, Second Floor
 Stamford, CT 06902

DRAWING TITLE:
SITE DETAIL PLAN
 PROJECT INFORMATION:
YALESVILLE-WEST (B)
 CT-110
 989 CHURCH STREET
 WALLINGFORD, CT 06492

PROPERTY OWNER:
 CITY OF MERIDEN WATER DEPT
 142 EAST MAIN STREET
 MERIDEN, CT 06450

DRAWING NO.
SC-2

REVISION NO. 1	DRAWN BY: RPM
DATE: 9/30/02	CHECKED BY: MC
SCALE: 1" = 10'	APPROVED BY: JDF
ISSUED FOR LEASE	SHEET NO. 2 of 3
WORK ORDER # 2650.CT110B	



TOWER IDENTIFICATION
STRUCTURE ID #2492

- NOTE: 1) PROPOSED GATE NOT SHOWN FOR CLARITY.
 2) STRUCTURAL INVESTIGATION OF TOWER REQUIRED

TECTONIC/KEYES ASSOCIATES
 1244 BRIDGE STREET, MERIDEN, CT 06450 OFFICE (203) 238-1244
 1000 HILL, CT 06457-1200 FAX (203) 238-1244



DRAWING TITLE:
ELEVATION
 PROJECT INFORMATION:
YALESVILLE-WEST (B)
 CT-110
 989 CHURCH STREET
 WALLINGFORD, CT 06492
 PROPERTY OWNER:
 CITY OF MERIDEN WATER DEPT
 142 EAST MAIN STREET
 MERIDEN, CT 06450

DRAWING NO. SC-3	
REVISION NO. 1	DRAWN BY: RPM
DATE: 9/30/02	CHECKED BY: MC
SCALE: 1" = 20'	APPROVED BY: JDF
ISSUED FOR LEASE	SHEET NO. 3 of 3
WORK ORDER #: 2650.CT110B	



**Northeast
Utilities System**

107 Selden Street, Berlin, CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(203) 665-5000

**STRUCTURAL ANALYSIS OF AN EXISTING
CONNECTICUT LIGHT & POWER COMPANY
115-kV TRANSMISSION LINE TOWER TO SUPPORT
ADDITIONAL LOADS FROM AT&T WIRELESS ANTENNAS**

**SOUTHINGTON - WALLINGFORD - NORTH HAVEN 1690 LINE
TOWER #2492
WALLINGFORD, CONNECTICUT**

Prepared by: Northeast Utilities Service Company
Transmission Line & Civil Engineering Section
November 6, 2002

**WALLINGFORD TOWER #2492
SOUTHINGTON - WALLINGFORD - NORTH HAVEN 1690 LINE
TOWER ANALYSIS FOR ADDITION OF AT&T WIRELESS ANTENNAS**

INTRODUCTION

This report summarizes the results of a structural analysis performed on the existing 79'-6" high galvanized steel lattice tower. The original 70'-9" tower was manufactured by Riter-Conley Mfg. Co. in 1928 of ASTM A7 structural steel. Tower alterations were made by Bethlehem Steel Company in 1955, increasing the height by 8'-9", and increasing the conductor and ground wire arm lengths. It currently supports a double circuit 115-kV line. An analysis was also made for the existing steel grillage foundation.

An increased lateral loading on the tower will result from the addition of six AT&T panel antennas attached to the top of the existing lattice tower, and extending some 15 feet above the top of it. Each antenna is fed by (2) 7/8" dia. coax cables routed up the south tower leg to the antenna level. The antenna mast and its attachment to the tower were designed by Tectonic Engineering Consultants, Mountainville, New York for AT&T Wireless, using design criteria supplied by Northeast Utilities (NU).

STRUCTURAL ANALYSIS

The structural analysis was performed using the requirements of the National Electrical Safety Code (NESC) as required by the Connecticut Department of Public Utility Control (DPUC), ANSI/ASCE 10-90: "Design of Latticed Steel Transmission Structures", and NU's "Criteria for Design of PCS Masts Extending Above Transmission Structures and Analysis of Transmission Structures Supporting PCS Masts". The tower was analyzed using a computer program entitled TOWER and hand calculations. TOWER is a microcomputer-based program for the analysis and design of steel latticed towers, distributed by Power Line Systems, Inc. of Madison, Wisconsin. The load combinations used were as follows:

- Load Condition 1- NESC Heavy Loading (2002 Edition)
 - 1/2" of Radial Ice on Wires
 - Wind on Wires: 4 psf
 - Wind on 2 Tower Faces: 6.4 psf
 - Overload Factors:
 - Wire Tension: 1.65
 - Wire Weight: 1.5
 - Wind: 2.5

Page 2

Double Circuit 115-kV Line:

(6) - 4/0 cu Conductors at 4,500 pounds tension.

(2) - 7#9 cw Shield Wires at 3,600 pounds tension.

Wind Span: 507 ft.

Weight Span: 558 ft.

Line Angle: Tangent

Wind and Vertical Loads from 6 AT&T antennas & mast - see attachment.

Load Condition 2- Extreme Wind Loading (2002 Edition)

Wind on Wires: varies from 27.2 psf @ 79.5' to 25.6 psf @ 55.5'.

Wind on 2 Tower Faces: 48.9 psf

Overload Factors:

Wire Tension: 1.0

Wire Weight: 1.0

Wind: 1.0

Double Circuit 115-kV Line:

(6) - 4/0 cu Conductors at 3,823 pounds tension.

(2) - 7#9 cw Shield Wires at 2,801 pounds tension.

Wind Span: 507 ft.

Weight Span: 558 ft.

Line Angle: Tangent

Wind and Vertical Loads from 6 AT&T antennas & mast - see attachment.

ORIGINAL DESIGN

The original design loading for the tower was as follows:

Simultaneously applied loads representing the condition of one ground wire and any one conductor or of any two conductors broken at maximum tension with an angle of 2^o-30' in the line.

Vertical: 900 pounds at each unbroken ground wire support; 590 pounds at each broken ground wire support; 1400 pounds at each unbroken conductor support; 890 pounds at each broken conductor support; dead load of steel in tower, with surface of steel considered coated with 1/2" ice.

Transverse: 870 pounds at each unbroken ground wire support; 435 pounds at each broken ground wire support; 1035 pounds at each unbroken conductor support; 520 at each broken conductor support.

Longitudinal: 3,500 pounds at each broken ground wire support; 5000 at each broken conductor support.

Page 3

Structure: wind on steel at 13 psf on two times the area of one face. Surface of steel considered coated with ½" ice.

RESULTS

Tower Analysis

The existing CL&P tower #2492 was analyzed for Load Conditions 1 & 2 as described above, using the actual wind and weight spans, actual line angle for the tower, and the loads from the AT&T antennas and mast. AT&T requested that the tower be analyzed for the following alternative antenna systems:

Alternate #1: three (3) Allgon 7250 antennas, with the centerline of the antennas at 86'; with six (6) 7/8" diameter coax.

Alternate #2: two (2) clusters of three (3) Allgon 7250 antennas, with the centerlines of the antennas at 92' & 86'; with twelve (12) 7/8" diameter coax.

The tower is capable of supporting the proposed loads (double circuit 115-kV line with AT&T antennas and mast). Alternate #2 was the only one considered since it did not over stress the structure.

Foundation Analysis

The foundation was checked by a hand calculation. The existing steel grillage foundation is capable of supporting the present and AT&T loads.

CONCLUSIONS

The analysis indicates that the existing tower and foundations can safely support the additional lateral loads imposed upon it by the AT&T appurtenances under the present transmission line loadings.

In order to transfer the lateral loads to the existing tower, special attachments from the antenna mast to the tower, at various elevations, are to be made. The design of these attachments were provided by Tectonic Engineering Consultants and submitted for NU review to assure compliance with DPUC, NESC, and NU requirements.

Prepared by: Northeast Utilities Service Company
Transmission Line & Civil Engineering Section
Richard A. Drasdis
Principal Engineer
November 6, 2002

STRUCTURAL DESIGN CALCULATIONS
LEAD SHEET
W.O. 2650.CT110B (YALESVILLE, CT)

PURPOSE

Design antenna mount for NU tower #2492 to support two (2) clusters of three (3) antennas (86' CL and 92' CL). In addition, compute mast support reactions from each loading condition.

REFERENCES

- Northeast Utilities "Criteria for Design of PCS Facilities On or Extending Above Metal Electric Transmission Tower and Analysis of Transmission Towers/Poles and Analysis of Transmission Towers/Poles Supporting PCS Masts", 12/7/01.
- ANSI/EIA/TIA-222-F-1996 "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures"
- ANSI/IEEE C2-2002 "National Electric Safety Code (NESC)".
- American Institute of Steel Construction "Manual of Steel Construction: Allowable Stress Design, 9th Edition", 1989.

ASSUMPTIONS

1. A maximum of six (6) cables contribute to the exposed wind area of the mast. A maximum of eight (8) cables contribute to the exposed wind area of the coax run.
2. Only two (2) antennas are exposed per cluster.

PROCEDURE

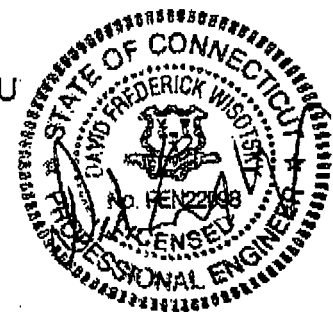
1. Calculate wind, dead, and ice loads on the proposed mount based on TIA/EIA and NU requirements for PCS facilities.
2. Design structural components appropriate for the loads.
3. Check the tower members at the connection for local stresses.
4. Calculate reactions on the proposed mount based on NESC and NU requirements.

RESULTS/CONCLUSIONS

See drawing for design.

DRAWING COORDINATION

Sheet	Date	Title	Checked By:
S-1	8/16/02	Elevations, Section & Details	RJD



Reviewed By: Colin J. Kelley Date: 8/16/02



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

SITE ID: 913-008-110

October 08, 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 989 Church St, Wallingford, CT 06492. 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: Yalesville-West (B)	
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)	86.0/92.0 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(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.

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

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 (cm²). 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 0.001767 mW/cm² which occurs at 280 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000137 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	0.001767 mW/cm ²
PCS	1 mW/cm ²	5 mW/cm ²	

The maximum power density at the proposed facility represents only 0.18% of the public MPE limit for all frequencies in use.

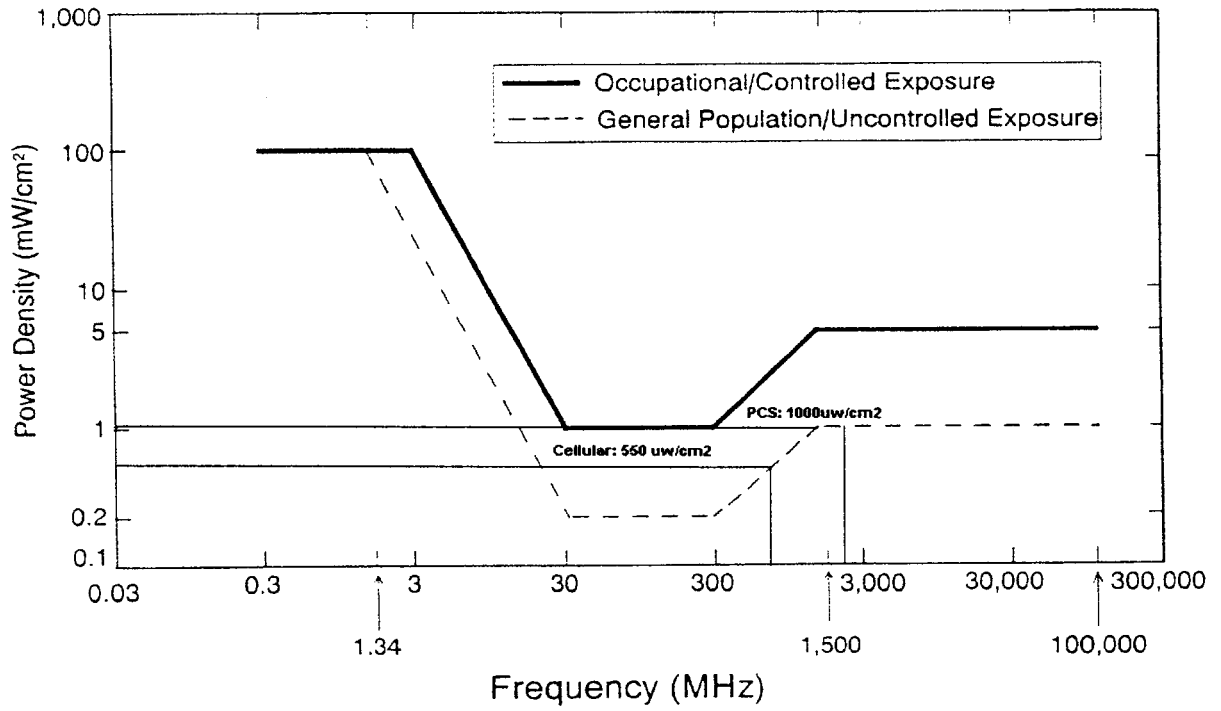
6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.001767 mW/cm², a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

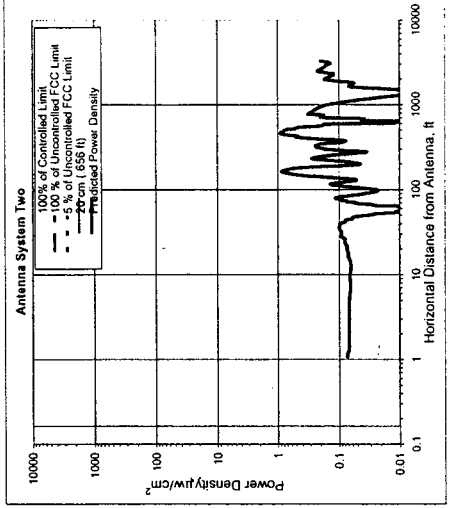
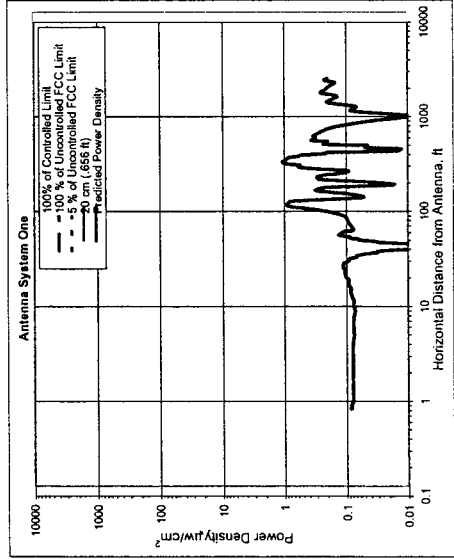
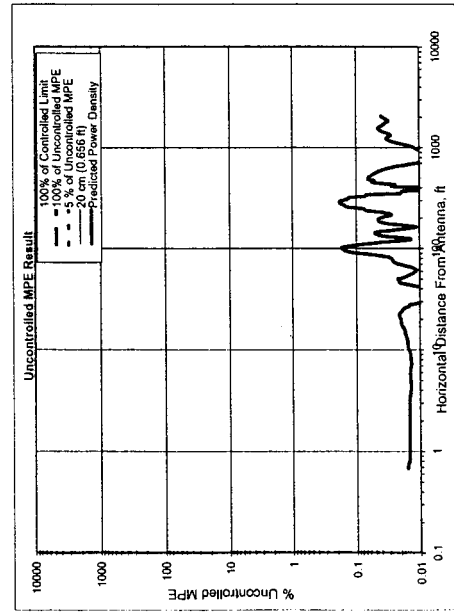
² 47 U.S. C. Section 332 (c) (7)(B)(iv) states that “[n]o State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such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

7. FCC Limits for Maximum Permissible Exposure

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



8. Exhibit A



Number of Antenna Systems: 2
 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	% of Limit	@Horiz. Dist.
Maximum Power Density =	0.001767	0.18	280.00
565.95 times lower than the MPE limit for uncontrolled environment			
Composite Power (ERP) =	6,000.00	Watts	

Site ID: 913-008-110
 Site Name: Yalesville-West(B)
 Site Location: 989 Church St
 Wallingford, CT 06492

Performed By: Prabhakar Kumar Rughobur
 Date: 10/8/02

Ant System TWO Owner: AT&T
 Sector: 3
 Azimuth: 80/200/320

Antenna System One

Frequency	units	Value
# of Channels	MHz	1945.00
Max ERP/Ch	Watts	12
Max Pwr/Ch Into Ant.	Watts	250.00
Max Pwr/Ch (Center of Radiator)	feet	5.60
Calculation Point (above ground or roof surface)	feet	86.00
		5.00
		0.00
		0.00
Antenna Model No.		Allipon 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 _{horiz}	feet	78.45
WOS?	Y/N?	n

Antenna System Two

Frequency	units	Value
# of Channels	MHz	1945.00
Max ERP/Ch	Watts	12
Max Pwr/Ch Into Ant.	Watts	250.00
Max Pwr/Ch (Center of Radiator)	feet	5.60
Calculation Point (above ground or roof surface)	feet	92.00
		5.00
		0.00
		0.00
Antenna Model No.		Allipon 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 _{horiz}	feet	84.45
WOS?	Y/N?	n

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.