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-022-020619** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 53 Westminster Road, Canterbury, 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 19, 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 Neil A. Dupont, Sr., First Selectman, Town of Canterbury
Darlene L. Gannon, Zoning Enforcement Officer, Town of Canterbury
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC
Sandy M. Carter, Verizon Wireless

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 19, 2002

Honorable Neil A. Dupont, Sr.
First Selectman
Town of Canterbury
P O Box 27
Canterbury, CT 06331-0027

RE: **EM-AT&T-022-020619** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 53 Westminster Road, Canterbury, Connecticut.

Dear Mr. Dupont:

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: Darlene L. Gannon, Zoning Enforcement Officer, Town of Canterbury

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NOTICE OF INTENT TO MODIFY AN EXISTING TELECOMMUNICATIONS FACILITY AT 53 WESTMINSTER ROAD, CANTERBURY, 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 53 Westminster Road, Canterbury, Connecticut (the "Westminster Road Facility"), owned by Sprint PCS. AT&T Wireless and Sprint have agreed to share the use of the Westminster Road Facility, as detailed below.

The Westminster Road Facility

The Westminster Road Facility consists of an approximately one hundred eighty (180) foot monopole (the "Tower") and associated equipment currently being used and/or leased for wireless communications use by Sprint and Verizon. A chain link fence surrounds the Tower compound. The current surrounding land uses are predominantly residential, however, the Tower is surrounded by wooded areas.

AT&T Wireless' Facility

As shown on the enclosed plans prepared by Tectonic/Keyes Associates, including a site plan and tower elevation of the Westminster 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 160 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 structural report prepared by Tectonic Engineering Consultants, 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 Westminster 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.

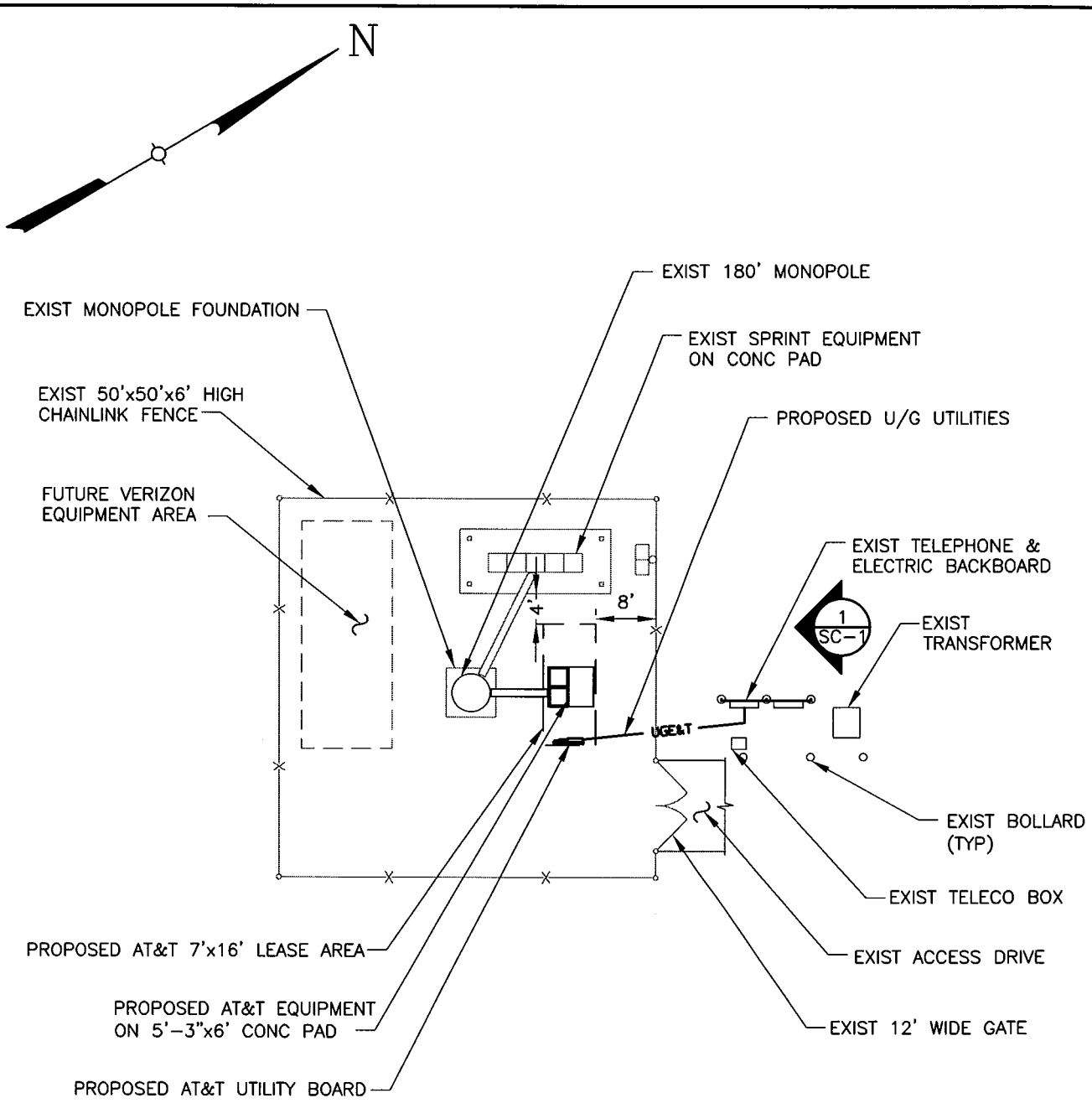
Conclusion

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

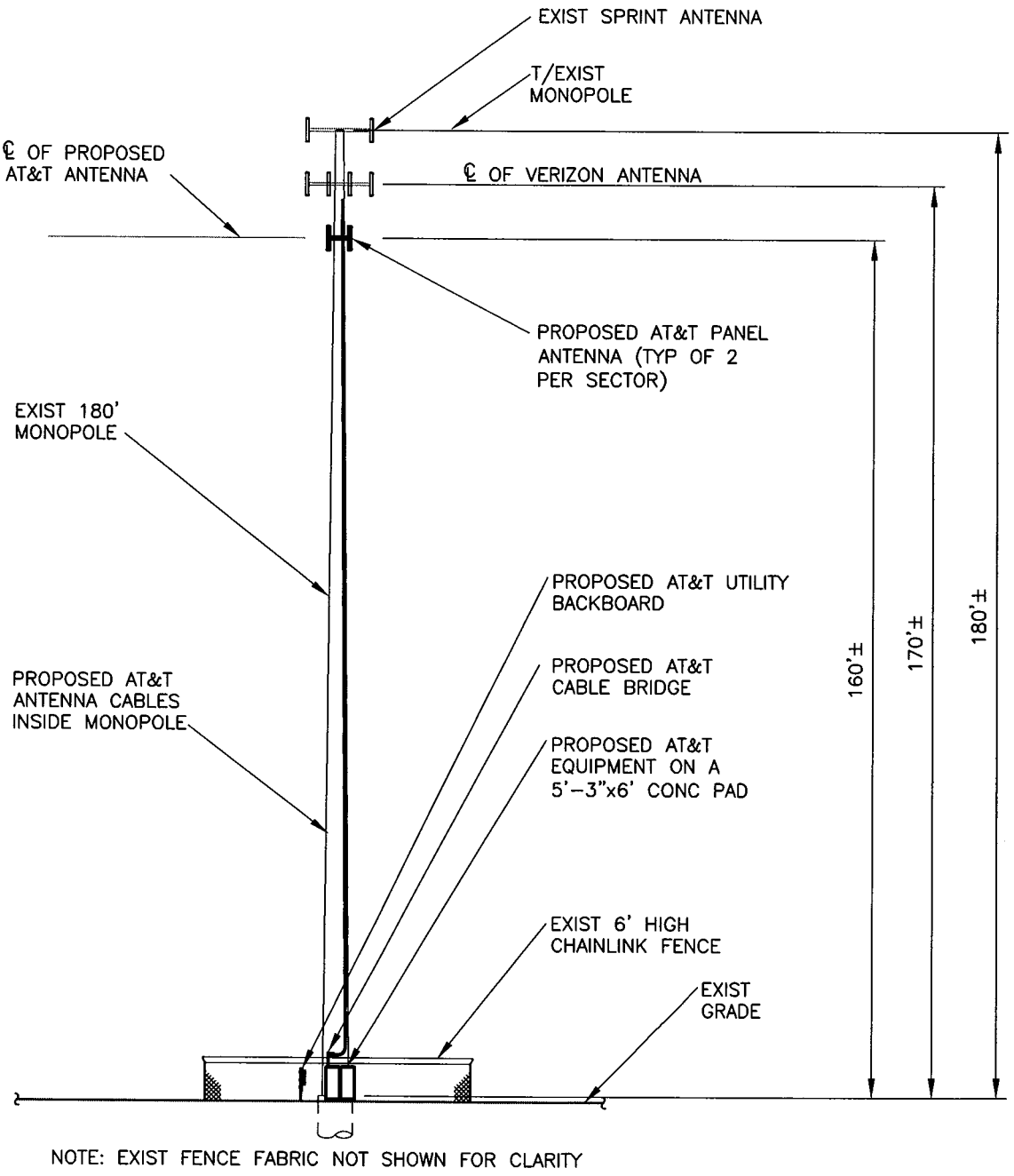
Respectfully Submitted,

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

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



TECTONIC/KEYES ASSOCIATES	AT&T AT&T WIRELESS PCS, LLC. 12 Omega Drive, Second Floor Stamford, CT 06902	DRAWING TITLE: SITE DETAIL PLAN PROJECT INFORMATION: CANTERBURY CT-775 53 WESTMINSTER ROAD CANTERBURY, CT 06331 PROPERTY OWNER: JOHN R. LEMIRE 53 WESTMINSTER RD. CANTERBURY CT 06331	DRAWING NO. SC-1 REVISION NO. 1 | DRAWN BY: WRB DATE: 5/30/02 | CHECKED BY: MC SCALE: 1"=20' | APPROVED BY: JDF ISSUED FOR COMMENT | SHEET NO. 2 of 2 WORK ORDER #: 2650.CT775



NOTE: EXIST FENCE FABRIC NOT SHOWN FOR CLARITY

TECTONIC/KEYES ASSOCIATES
1344 SILAS DEANE HIGHWAY, SUITE 300 ROCKY HILL, CT 06067-1349
OFFICE: (860)563-5344 FAX: (860)257-4255

AT&T

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

DRAWING TITLE:
ELEVATION PLAN

PROJECT INFORMATION:
CANTERBURY
CT-775
53 WESTMINSTER ROAD
CANTERBURY, CT 06331

PROPERTY OWNER:
JOHN R. LEMIRE
53 WESTMINSTER RD.
CANTERBURY CT 06331

DRAWING NO.
SC-2

REVISION NO. 1	DRAWN BY: WRB
DATE: 5/30/02	CHECKED BY: MC
SCALE: 1"=20'	APPROVED BY: JDF
ISSUED FOR COMMENT	SHEET NO. 1 of 2
WORK ORDER #: 2650.CT775	

AT&T WIRELESS PCS: CANTERBURY
W.O. 2650.CT775
EXISTING 180' MONOPOLE
CANTERBURY, CT
STRUCTURAL ANALYSIS REPORT
JUNE 10, 2002

1.0 INTRODUCTION

The existing monopole, located at 53 Westminster Road in Canterbury, CT, currently serves the needs of Sprint PCS. AT&T Wireless PCS anticipates installing its antennas and related cables on this monopole in the near future.

Tectonic Engineering & Surveying Consultants, P.C. has performed a structural analysis of the pole to verify its adequacy for supporting the proposed antennas in accordance with current code requirements.

1.1 Information Provided

For the purpose of the analysis, Tectonic was furnished with the following information:

1. "180'-0" Monopole, Sprint PCS/NJ" structural design drawing, by Engineered Endeavors, Inc. for site: Canterbury, CT, Westminster Road, CT33XC084, dwg. no. GS52249, dated 4/21/00.
2. "Sprint PCS, 180' Monopole, Westminster, CT33XC084 Cellular Site, Canterbury, CT" foundation design drawing, by Engineered Endeavors, Inc., project no. 6897, dwg. no. S6897-180, dated 4/21/00.
3. Structure Design Calculations for 180' Monopole, by Engineered Endeavors, Inc. for site: Westminster Road, CT33XC084, EEI job no. 6897, dated 4/21/00 (5 of 8 pages).
4. "Design Calculations for a Spread Footer Foundation, Sprint PCS, 180' Monopole", by Engineered Endeavors, Inc., site: Westminster, CT33XC084 Cellular Site, EEI project no. 6897, dated 4/21/00 (3 pages).
5. "Tower Loading Form", by Sprint, cascade no. CT33XC084, file no. 6897, listing Sprint, Verizon, and AT&T installation information, dated 4/4/01.

2.0 STRUCTURE DESCRIPTION

2.1 General

The existing monopole was designed by Engineered Endeavors, Inc. (EEI) in 2000. It is 18-sided, and consists of four (4) slip-jointed sections, for a total height of 180'. The pole is approximately 4'-0" wide at the base and tapers to 1'-4" wide at the top.

A diagram of the structure is presented in Figure 1, attached.

2.2 Monopole Foundation

The monopole foundation was also designed by EEI in 2000. According to the drawings provided, the foundation consists of a 24'-6" square by 3'-0" thick reinforced concrete footing, bearing at a depth of 5'-0" below grade. A 6'-6" square pier extends from the footing to approximately 12" above grade. Foundation design reactions are provided in the EEI drawings.

The monopole is anchored to its foundation by twelve (12) 2-1/4" diameter anchor bolts.

2.3 Loading Criteria

The original design was based on ANSI/TIA/EIA-222-F-1996 and Sprint Specs SSEO 3.001.06.001 (not provided) using a basic wind speed of 90 mph with no ice and a reduced wind speed of 78 mph in conjunction with 0.5" radial ice. The structure was designed to support the following items:

6 DB 980 directional antennas on a low-profile platform at the 180' level
6 DB 980 directional antennas on a low-profile platform at the 170' level
6 DB 980 directional antennas on a low-profile platform at the 160' level
1 GPS antenna at the 80' level

All cables were intended to be run inside the monopole.

The original design criteria also included an operational (50 mph) wind load case with no ice, which limited the sway of the pole. This was not the controlling loading condition.

3.0 EXISTING CONDITION

3.1 Field Inspection

Representatives of Tectonic performed a limited site visit of the monopole in 2002. Photographs were taken to document the existing configuration and conditions.

Based on our limited site visit, the monopole appears to be in good condition. No damage or significant deformation of the monopole was observed.

The exposed portion of the concrete foundation is in good condition. Based on these findings, we expect that the monopole is capable of supporting its original design loads.

A sign, located near the base of the structure, identified the Sprint site no. as CT33XC084.

3.2 Existing Antennas and Equipment

At the time of our inspection, the monopole was found to be supporting the following items:

- 6 Decibel DB980H90 or similar panel antennas (Sprint PCS) at approximately the 182' level (centerline), mounted two (2) per sector on a top-mounted low-profile platform
- 6 1-5/8" diameter coaxial cables, routed up the interior of the monopole to the 182' level
- 1 GPS antenna at approximately the 80' level, mounted on an approximately 2' long sidearm
- 1 1/2" diameter coaxial cable, routed up the interior of the monopole to the 80' level
- \- Step bolts with a safety cable to the top

4.0 PROPOSED INSTALLATION

It is our understanding that all existing antennas and equipment will remain on the structure, and that AT&T Wireless PCS is proposing to install the following items on the monopole:

- 6 Allgon 7250 panel antennas at the 160' level (centerline), mounted two (2) per sector on a low-profile platform
- 12 1-5/8" diameter coaxial cables, routed up the interior of the monopole to the 160' level

In addition, we understand that Verizon Wireless intends to add the following items to the monopole in the future:

- 12 Decibel DB844H90 panel antennas at the 170' level (centerline), mounted four (4) per sector on a low-profile platform
- 12 1-5/8" diameter coaxial cables, routed up the interior of the monopole to the 170' level

We further understand that Sprint PCS intends to expand their existing installation to a total of nine (9) DB980 antennas, mounted three (3) per sector.

5.0 STRUCTURAL ANALYSIS

5.1 Current Loading Criteria and Procedure

In accordance with the provisions of ANSI/TIA/EIA-222-F-1996 "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures", a basic wind speed of 85 mph applies to Windham County, CT, where the pole is located. This is the same wind speed required by the 1999 Connecticut supplement to the BOCA National Building Code / 1996 for the Town of Canterbury. Therefore, the 85 mph wind speed was used in our analysis.

Ice loads have been established based on a 0.5" radial ice thickness in accordance with industry standard practice. A reduced wind speed of 74 mph is used in conjunction with this ice load.

A detailed analysis of the structure was performed using the geometry and material thicknesses as shown in the EEI drawings and calculations. The analysis included the monopole with the existing appurtenances, along with the proposed AT&T Wireless PCS and future Verizon Wireless and Sprint PCS antennas and related cables, using current loading criteria with:

a) a wind speed of 85 mph and no ice
b) a wind speed of 74 mph in conjunction with 0.5" ice

5.2 Assumptions

Several assumptions were made in order to perform the analysis. Each of these is considered by Tectonic to be both reasonable and consistent with current standards of practice.

1. The monopole and its foundation were constructed in accordance with the EEI drawings provided.
2. The slip jointed splices were assembled in accordance with the manufacturer's specifications.
3. The monopole is modeled as a cantilever beam, with a fixed connection at its base.

5.3 Results

Under the loading conditions described in Section 5.1, the results of our analysis indicate that the calculated stresses are less than the allowable values established by applicable standards. The maximum calculated stress occurs at approximately the 138' level, and is 99% of its capacity. The "no ice" loading condition governs.

The maximum foundation reactions are summarized as follows:

	EEI Original Design	Proposed Condition	Percentage
Vertical (Axial)	26.7 k	31.3 k	117%
Horizontal (Shear)	20.2 k	20.3 k	101%
Overturning Moment	2445 k-ft	2555 k-ft	105%

The anchor bolts are found to be stressed to 94% of their allowable capacity.

Although the calculated foundation reactions from our analysis are greater than those listed on the EEI drawing, we used the original design calculations provided to verify that the capacity of the foundation is fully adequate for the proposed loading condition.

6.0 CONCLUSIONS AND RECOMMENDATIONS

As a result of our analysis, we find that the existing monopole has sufficient capacity to permit the installation of the proposed AT&T Wireless PCS and future Verizon Wireless and Sprint PCS antennas and related cables, as listed in Section 4.0. No structural problems for the monopole are anticipated and no modifications are necessary.

Any further changes to the antenna configuration or other appurtenances should be reviewed with respect to their effect on structural loads prior to implementation.

Prepared by: _____
Richard J. Dyer, E.I.T.
Staff Structural Engineer

Reviewed by: _____
Colin G. Kelley, P.E.
Senior Structural Engineer

Approved by: _____ Date: 6/10/02
Jeffrey B. Kirby, P.E.
Chief Structural Engineer

STATE OF CONNECTICUT JEFFREY B. KIRBY No. 21291 LICENSED PROFESSIONAL ENGINEER

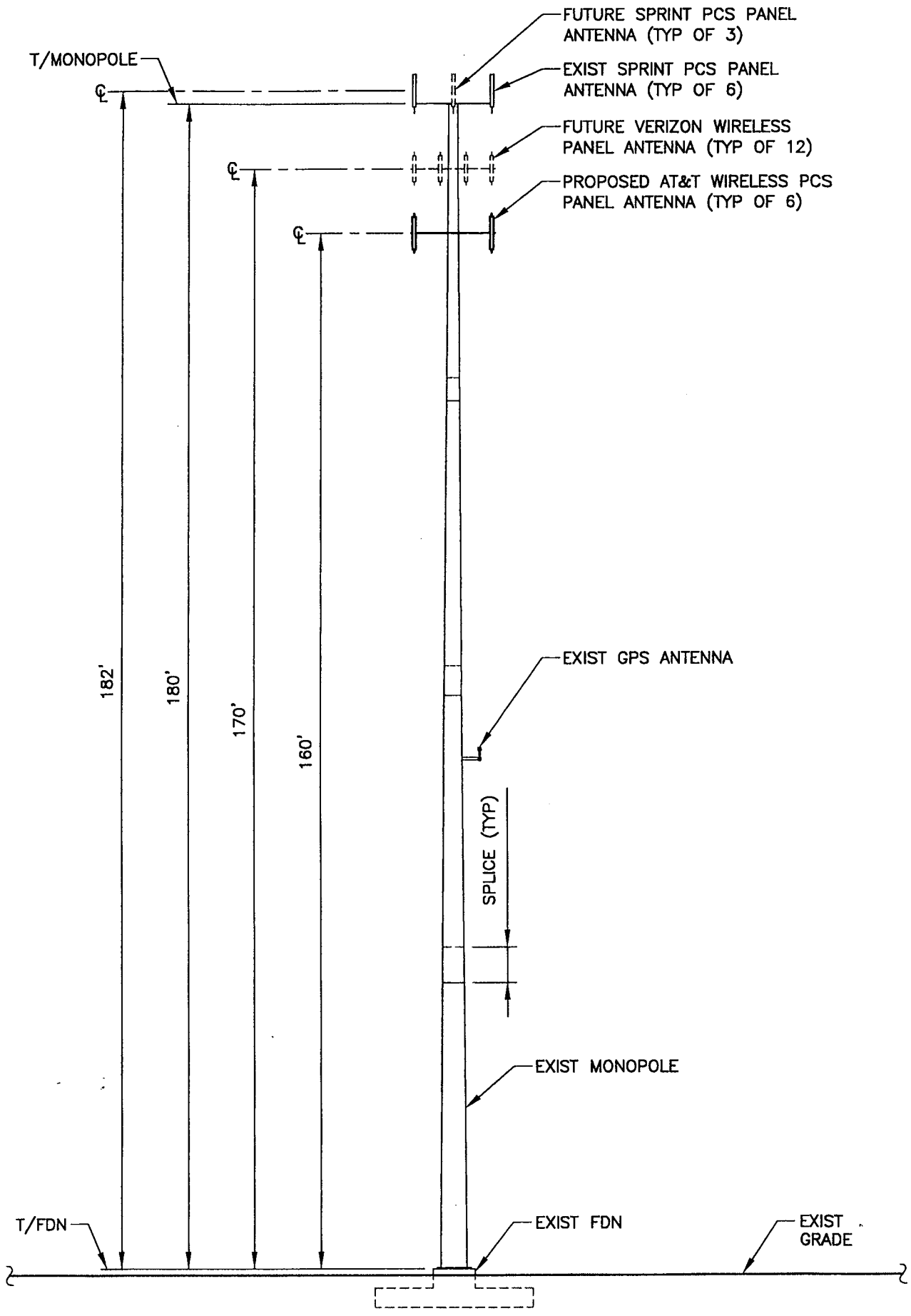


FIGURE 1

W.O. 2650.CT775
CANTERBURY, CT

RF Exposure Analysis for Proposed AT&T Wireless Antenna Facility

SITE ID: 907-009-775

June 12, 2002

Prepared by AT&T Wireless Services, Inc.
Satish Bhandare, **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 *53 Westminster Rd, Canterbury, 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: ***Canterbury Brooklyn Rd***	
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)	160.00 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 0.001932 mW/cm^2 which occurs at 170 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000020 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	0.001932 mW/cm^2
PCS	1 mW/cm^2	5 mW/cm^2	

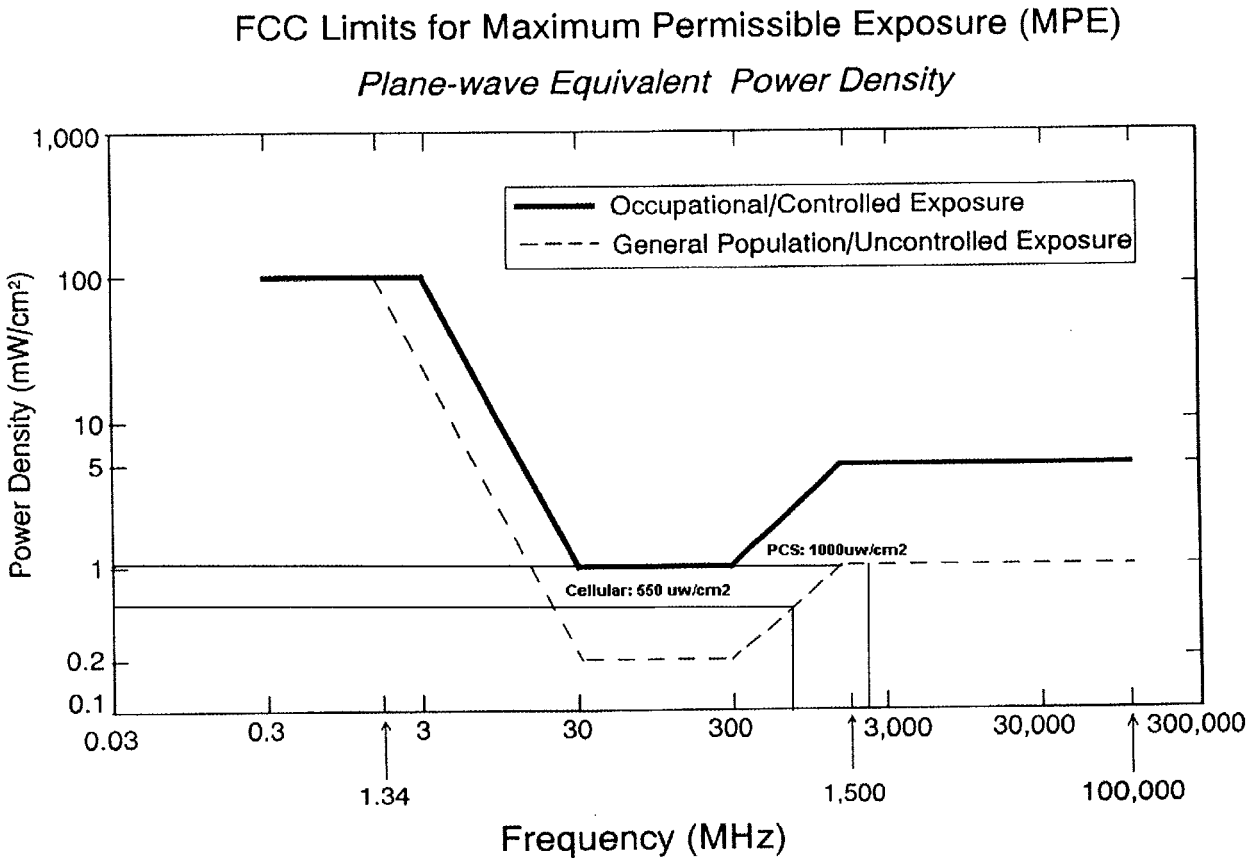
The maximum power density at the proposed facility represents only 0.31% of the public MPE limit for PCS frequencies.

6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.001932 mW/cm^2, a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

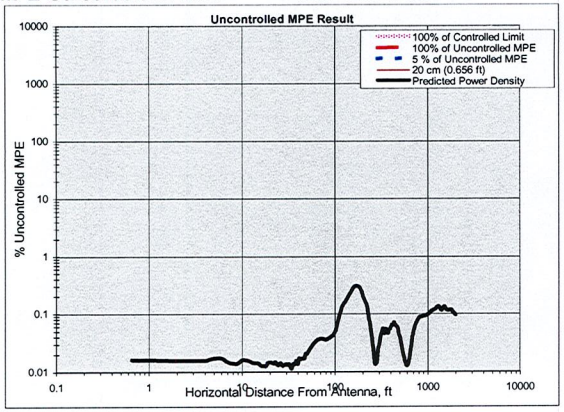
[2] 47 U.S. C. Section 332 (c) (7)(B)(iv) states that "[n]o State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that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

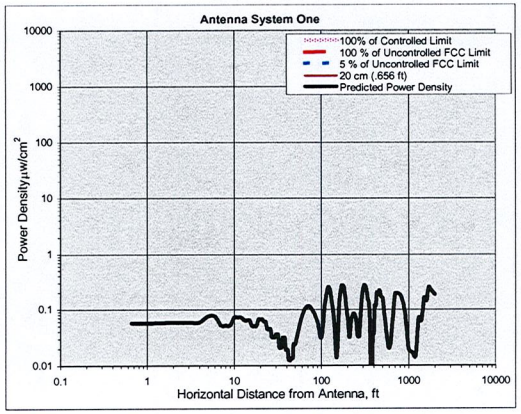
7. FCC Limits for Maximum Permissible Exposure

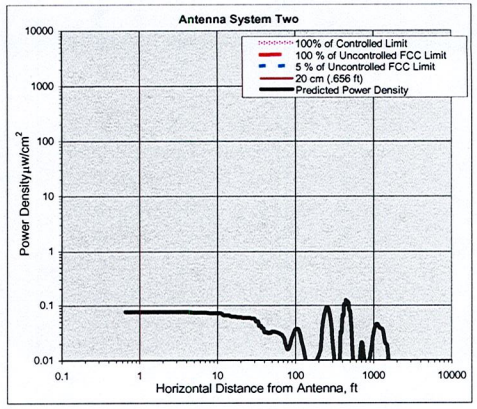


8. Exhibit A

MPE Calculations for : 907-009-775







Number of Antenna Systems: 3

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 =	0.001932	0.31	170.00
326.09 times lower than the MPE limit for uncontrolled environment			
Composite Power (ERP) =	14,500.00 Watts		

Site ID: 907-009-775
Site Name: Canterbury Brooklyn Rd
Site Location: 53 Westminster Rd
Canterbury, CT

Performed By: Satish Bhandare

Date: 6/13/02

Antenna System One

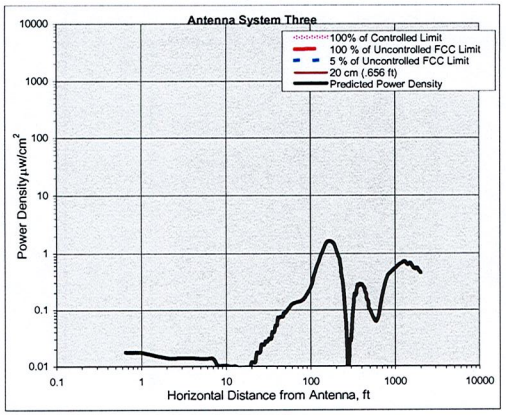
	units	Value
Frequency	MHz	1945.00
# of Channels	#	16
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	5.86
(Center of Radiator)	feet	160.00
Calculation Point	feet	0.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		Allgon 7250.03
Max Ant Gain	dBd	16.30
Down tilt	degrees	0.00
Miscellaneous Att.	dB	0.00
Height of aperture	feet	5.11
Ant HBW	degrees	65.00
Distance to Ant_{bottom}	feet	157.45
WOS?	Y/N?	n

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

Antenna System Two

	units	Value
Frequency	MHz	1950.00
# of Channels	#	12
Max ERP/Ch	Watts	250.00
Max Pwr/Ch Into Ant.	Watts	7.73
(Center of Radiator)	feet	180.00
Calculation Point	feet	0.00
(above ground or		0.00
roof surface)		0.00
Antenna Model No.		DB980G90
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	177.50
WOS?	Y/N?	n

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



Antenna System Three

	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	170.00
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	168.00
WOS?	Y/N?	n

Ant System Three Owner: Verizon
Sector: 3
Azimuth 30/150/280

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.