



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

June 12, 2001

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

RE: **TS-AT&T-034-010523** - AT&T Wireless PCS, LLC request for an order to approve tower sharing at an existing telecommunications facility located at 48 Newtown Road, Danbury, Connecticut.

Dear Attorney Fisher:

At a public meeting held June 6, 2001, the Connecticut Siting Council (Council) denied your request for tower sharing. The proposed shared use as specified in your letter dated May 22, 2001, may constitute an extension of the tower and, therefore, requires a petition or a formal application.

Thank you for your attention and cooperation. If you should have any questions regarding this decision, please do not hesitate to contact our office.

Very truly yours,



Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Gene F. Eriquez, Mayor, City of Danbury
Dennis Elpern, City Planner, City of Danbury
Sandy M. Carter, Verizon
Peter W. van Wilgen, SNET Mobility LLC
Ronald C. Clark, Nextel Communications, Inc.

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DANIEL F. LEARY (also CT)
BARRY S. LONG

July 17, 2001

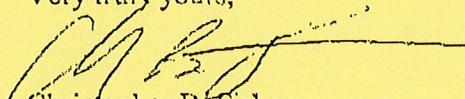
VIA FAX
Mr. Joel Rinebold
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Tower Sharing Request By AT&T
48 Newtown Road, Danbury, Connecticut

Dear Mr. Rinebold:

In furtherance of AT&T's recently (re)submitted tower sharing request with respect to the above referenced matter, enclosed please find a reverified structural analysis dated July 10, 2001. As you know, the antenna mounting detail changed to address the Council's initial decision on AT&T's tower sharing request. While no structural impacts were anticipated from the redesign, we nevertheless requested updated information from AT&T's structural engineers and are submitting a copy for your records. Please do not hesitate to contact me should you or the Council require any additional information.

Very truly yours,


Christopher B. Fisher

Enclosure

MANZI ENGINEERING

3 CIFRE LANE
 PLAISTOW, NH 03865
 (603) 382-6219
 (603) 382-0523 (fax)

**SPECIALIZING IN TELECOMMUNICATIONS
 RELATED STRUCTURAL ENGINEERING**

July 10, 2001

Natcomm, L.L.C.
 63-2 North Branford Road
 Branford, CT 06405
 Attn: Jason Pitek

Dear Jason,

Per your recent request I am providing you with this revised cover letter for the analysis of the existing 100 ft "Engineered Endeavors" monopole located in Danbury, CT (also referred to as "Germantown"). This analysis considers the addition of 3 EMS RR90-17 panels cluster mounted 10 ft above the top of the existing pole with the associated coax run down the outside of the pole.

This analysis was done in accordance with the EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures". Wind loads were generated for a basic design wind speed of 85 mph and a loading combination that included 1/2" of radial ice as is required for Fairfield, County.

All pertinent pole loading information was taken from the February 5, 2001 CSB Communications tower inventory report as supplied by you and are assumed to be correct. All pole structural properties and existing foundation information are as supplied by NATCOMM LLC.

PROPOSED FINAL CONFIGURATION:

- 3 new EMS RR90-17 panels at 108'-0" agl on new 4 1/2" top mounted E.E.I. pipe mount
- 12 existing Allgon 7120.16 panels centered on existing 10'-8" E.E.I. top platform
- 12 existing Allgon 7129.16 panels centered on existing 12'-0" E.E.I. platform @ 88'-0" agl
- 12 existing DB844H90 panels centered on existing 14'-0" Summit platform @ 78'-0" agl
- 6 new runs of 1 1/4" coax run down outside of pole

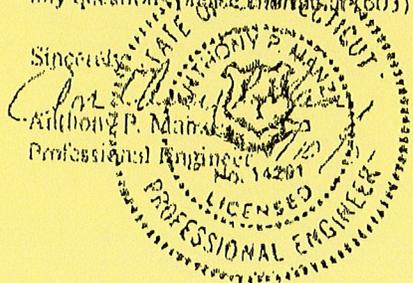
Based on my investigation your addition of 3 EMS RR90-17 panels and associated coax as listed within this report will meet all the structural requirements of the EIA/TIA-222 -F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures".

Any changes in antenna type, platform type or routing of coax could affect the validity of this analysis and should be reevaluated.

I appreciate this opportunity to assist you and look forward to working with you in the future. If you have any questions please call me at (603) 382-6219

Sincerely,

Anthony P. Manzi
 Professional Engineer



CUDDY & FEDER & WORBY LLP

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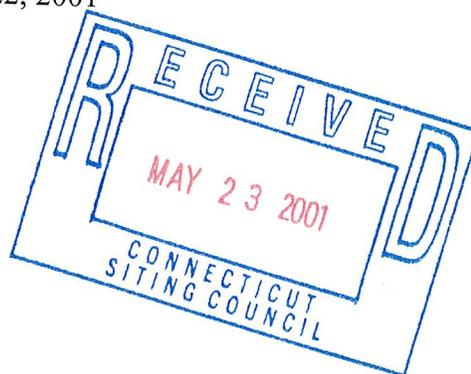
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MICHAEL L. KATZ (also NJ)
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DANIEL F. LEARY (also CT)
BARRY E. LONG

May 22, 2001

VIA FEDERAL EXPRESS

Mr. Joel Rinebold
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Tower Sharing Request by AT&T Wireless
Existing Tower Facility at
48 Newtown Road, Danbury, Connecticut



Dear Mr. Rinebold:

On behalf of AT&T Wireless PCS, LLC d/b/a AT&T Wireless Services, we respectfully enclose an original and twenty copies of its request for the shared use of an existing tower with respect to the above mentioned facility, together with a check for \$500.00, the filing fee. We would appreciate it if this matter were placed on the next available agenda by the Council to approve the application and issue an order for shared use by AT&T. Should the Council or staff have any questions regarding this matter, please do not hesitate to contact us.

Very truly yours,

Linda Grant
Linda Grant

Encls:

cc: Christopher B. Fisher, Esq.

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BARRY E. LONG**

May 22, 2001

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Tower Sharing Request by AT&T Wireless -
Existing Tower Facility at
48 Newtown Road, Danbury, Connecticut



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

Pursuant to Connecticut General Statutes (C.G.S.) § 16-50aa, AT&T Wireless PCS LLC, by and through its agent AT&T Wireless Services, Inc., ("AT&T Wireless") hereby requests an order from the Connecticut Siting Council (the "Council") to approve the proposed shared use of an existing communications tower, located at 48 Newtown Road in the City of Danbury (the "Newtown Road Facility"). AT&T Wireless has entered into an agreement with the tower owner to permit the installation of a wireless communications facility at the existing Newtown Road Facility. See lease signature page annexed hereto as Exhibit A.

The Newtown Road Facility

The Newtown Road Facility consists of an approximately one hundred (100) foot monopole (the "Tower") and equipment currently being used for wireless communications by Nextel Communications, VoiceStream Communications and Cingular Wireless. A chain link fence with privacy slats surrounds the Tower. Current adjacent land uses are predominately commercial and industrial.

May 22, 2001
Page 2

AT&T Wireless' Facility

As shown on the enclosed plans prepared by Natcomm, LLC, including a site plan and tower elevation of the Newtown Road Facility, AT&T Wireless proposes shared use of the Facility by placing antennas on the Tower and equipment needed to provide personal communications services ("PCS") within the existing building adjacent to the Facility. AT&T Wireless will install up to three (3) panel antennas on a 10' power mount extension attached to the top of the Tower to an overall height of 112.5' AGL. The associated equipment cabinets will be located on the second floor of the existing building located at 48 Newtown Road.

Connecticut General Statutes § 16-50aa provides that, upon written request for shared use approval, an order approving such use shall be issued, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns." (C.G.S. § 16-50aa(c)(1).) Further, upon approval of such shared use, it is exclusive and no local zoning or land use approvals are required C.G.S. § 16-50x. Shared use of the Newtown Road Facility satisfies the approval criteria set forth in C.G.S. § 16-50aa as follows:

- A. Technical Feasibility AT&T has confirmed that the tower is structurally capable of supporting the addition of AT&T Wireless' antennas. The proposed shared use of this tower is therefore technically feasible. See letter from Manzi Engineering, annexed hereto as Exhibit B.
- B. Legal Feasibility Pursuant to C.G.S. § 16-50aa, the Council has been authorized to issue an order approving shared use of the existing Newtown Road Facility. (C.G.S. § 16-50aa(c)(1)). Under the authority vested in the Council by C.G.S. § 16-50aa, an order by the Council approving the shared use of a tower would permit the Applicant to obtain a building permit for the proposed installation.
- C. Environmental Feasibility The proposed shared use would have a minimal environmental effect, for the following reasons:
 1. The proposed installation would have a de minimis visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing facility;

CUDDY & FEDER & WORBY LLP

May 22, 2001

Page 3

2. The proposed installation by AT&T Wireless would not increase the height of the tower itself or extend the boundaries of the Newtown Road Facility;
 3. The proposed installation would not increase the noise levels at the existing facility boundaries by six decibels or more;
 4. Operation of AT&T Wireless' antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. The "worst case" exposure calculated for the operation of this facility for all carriers, would be approximately 40.12% of the standard. See Cumulative Emissions Compliance Report dated May 3, 2001, prepared by David C. Cotton, Jr., AT&T Senior Radio Frequency Engineer, annexed hereto as Exhibit C;
 5. The proposed shared use of the Newtown Road Facility would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. Further, the installation will not generate any traffic other than for periodic maintenance visits.
- D. Economic Feasibility As evidenced in Exhibit A annexed hereto, the Applicant and the tower owner have entered into a mutual agreement to share use of the Newtown Road Facility on terms agreeable to both parties. The proposed tower sharing is therefore economically feasible.
- E. Public Safety As stated above and evidenced in the Cumulative Emissions Compliance Report annexed hereto as Exhibit C, the operation of AT&T Wireless' antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. Further, the addition of AT&T Wireless' telecommunications service in the Newtown area through shared use of the Newtown Road Facility is expected to enhance the safety and welfare of local residents and travelers through the area resulting in an improvement to public safety in this area of Newtown.

May 22, 2001
Page 4

Conclusion

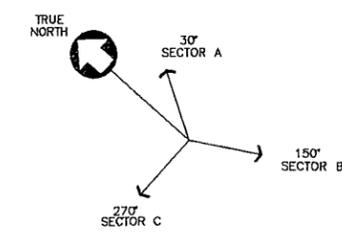
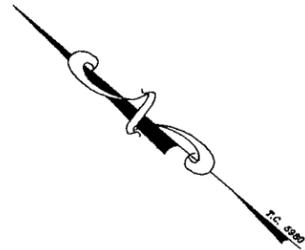
As delineated above, the proposed shared use of the Newtown Road Facility satisfies the criteria set forth in C.G.S. § 16-50aa, and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in the State of Connecticut. AT&T Wireless therefore requests the Siting Council issue an order approving the proposed shared use of the Newtown Road Facility.

Respectfully submitted,

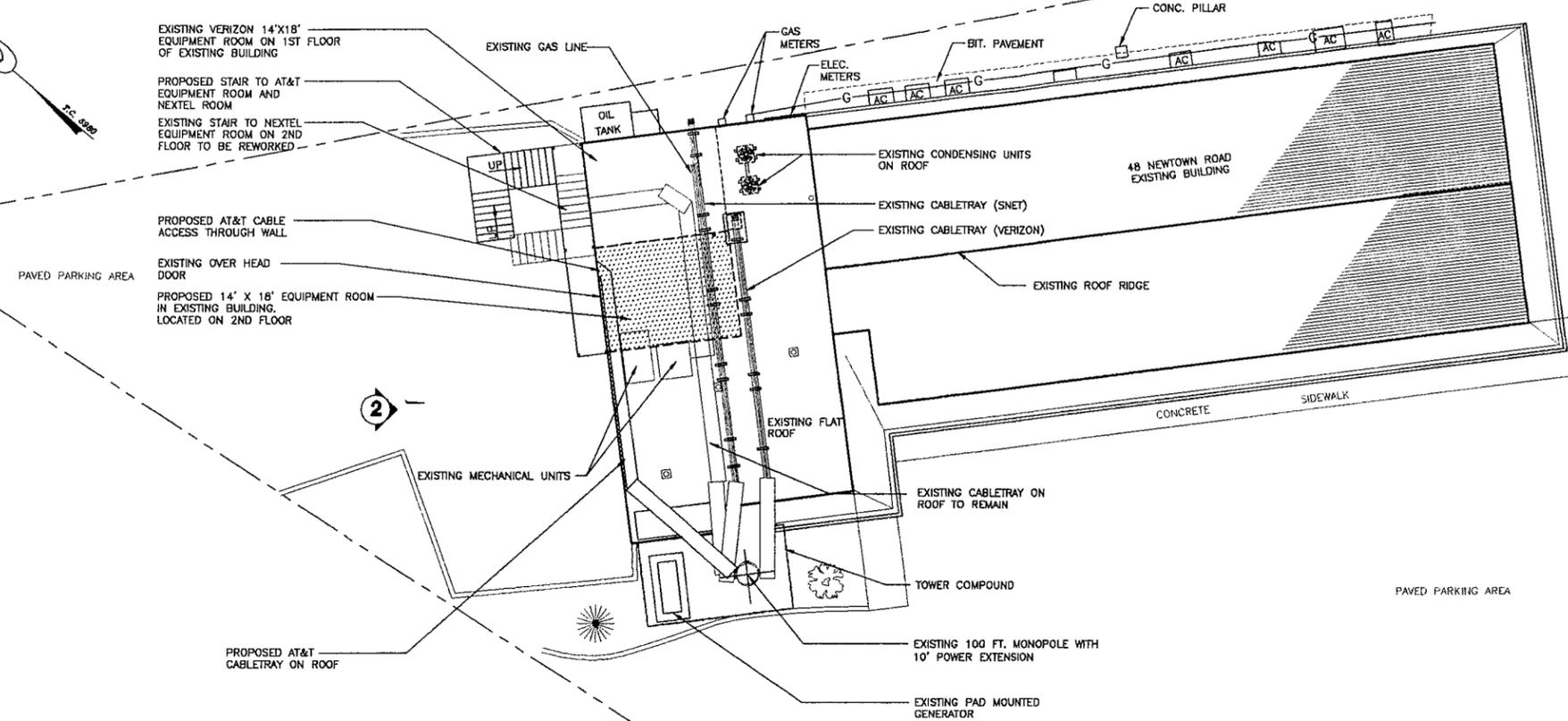
A handwritten signature in blue ink, appearing to read "C.B. Fisher", with a long horizontal flourish extending to the right.

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

cc: Mayor, City of Danbury
Carmen Chapman, AT&T Wireless
Connie Lamberes, Bechtel



ANTENNA ORIENTATION KEY



2

GALLAGHER LANE

1 SITE PLAN
NOT TO SCALE

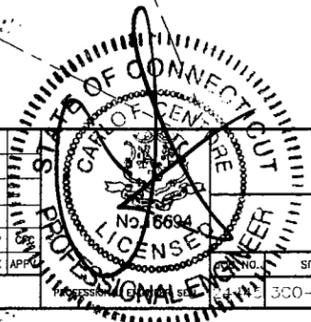
311AZC1.dwg 5-21-01 10:58:47 am EST

Natcomm, L.L.C.
 63-2 North Branford Road
 Branford, Connecticut 06405
 Tel: (203) 488-0580
 Fax: (203) 488-8587
 Consulting Engineers • Project Management
 Civil • Structural • Mechanical • Electrical

DANBURY EAST
SITE NO. CT-0179.2.0
 48 NEWTOWN ROAD
 DANBURY, CT 06810

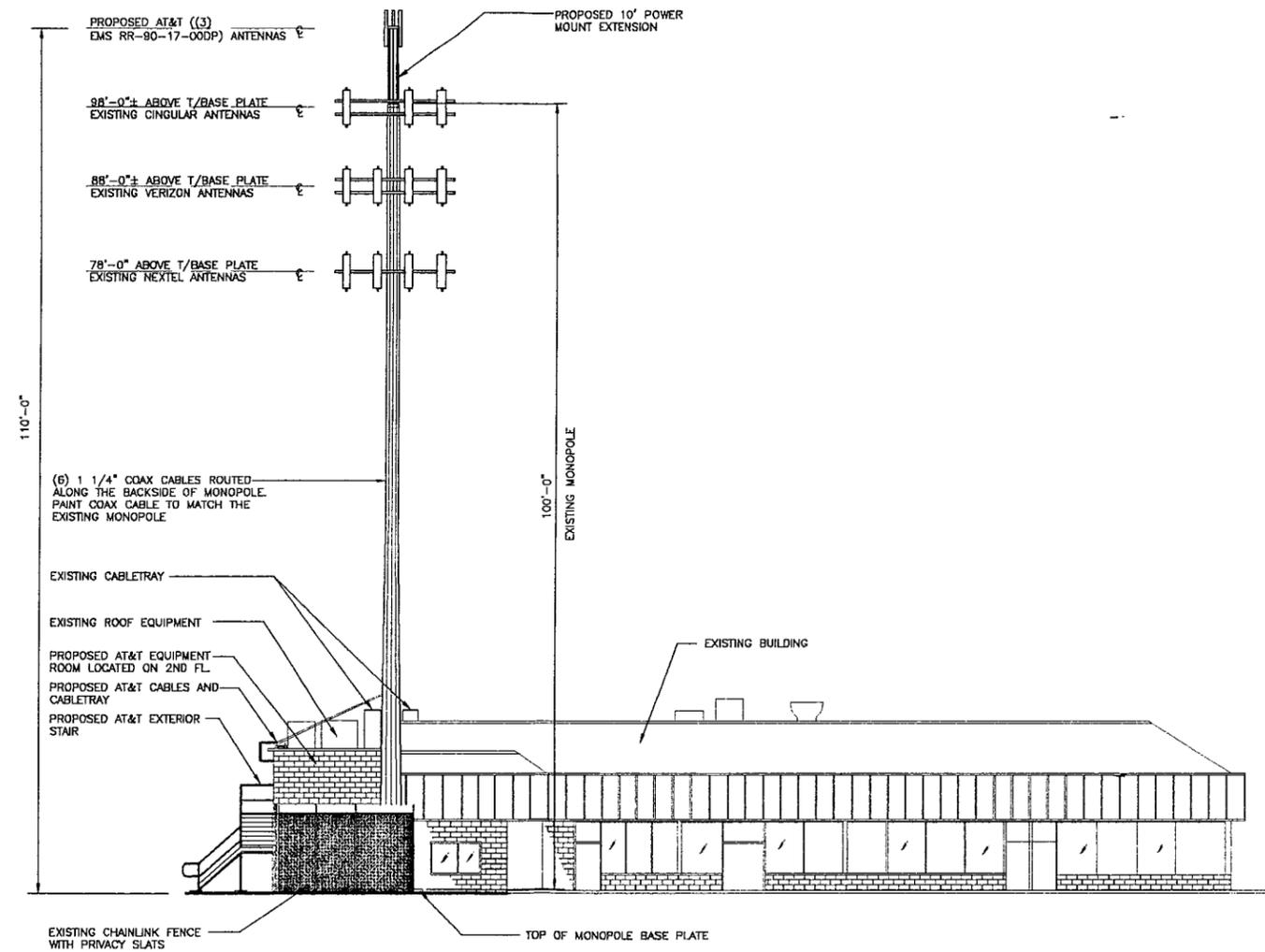
AT&T
 AT&T WIRELESS PCS LLC
 12 OMEGA DRIVE
 STAMFORD, CONNECTICUT

NO.	DATE	REVISIONS	BY	CHK	APP
1	05/21/01	ISSUED FOR SITING COUNCIL	P.A.M.	JUP	
DRAWN BY: DFB		CHECKED BY: JUP	SCALE: AS NOTED	DATE: 3/22/01	



Natcomm, L.L.C.	
63-2 North Branford Road Branford, Connecticut 06405	
SITE PLAN	
SITE NO.	DRAWING NUMBER
300-CT-179	SC01
REV.	1

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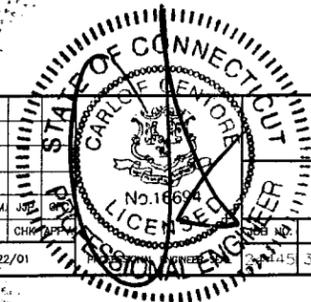
2 ELEVATION
NOT TO SCALE

Natcomm, L.L.C.
 63-2 North Branford Road
 Branford, Connecticut 06405
 Tel: (203) 486-0580
 Fax: (203) 486-6587
 Consulting Engineers • Project Management
 Civil • Structural • Mechanical • Electrical

DANBURY EAST
SITE NO. CT-0179.2.0
 48 NEWTOWN ROAD
 DANBURY, CT 06810

AT&T
 AT&T WIRELESS PCS LLC
 12 OMEGA DRIVE
 STAMFORD, CONNECTICUT

△															
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△	05/21/01	ISSUED FOR SITING COUNCIL		P.A.M.	J.P.P.										
NO.	DATE	REVISIONS	BY	CHK	APP <th>DATE</th> <th>SCALE</th> <th>DATE</th> <th>SITE NO.</th> <th>DRAWING NUMBER</th> <th>REV.</th>	DATE	SCALE	DATE	SITE NO.	DRAWING NUMBER	REV.				
						03/22/01	AS NOTED		45	300-CT-179	SC02	1			



Natcomm, L.L.C.
 63-2 North Branford Road
 Branford, Connecticut 06405
ELEVATION

MANZI ENGINEERING

3 CIFRE LANE
PLAISTOW, NH 03865
(603) 382-6219
(603) 382-0523 (fax)

**SPECIALIZING IN TELECOMMUNICATIONS
RELATED STRUCTURAL ENGINEERING**

February 19, 2001

Natcomm, L.L.C.
63-2 North Branford Road
Branford, CT 06405
Attn: Jason Pintek

Dear Jason,

Per your recent request I am providing you with the enclosed analysis of the existing 100 ft "Engineered Endeavors" monopole located in Danbury, CT (also referred to as "Germantown"). This analysis considers the addition of 3 EMS RR90-17 panels cluster mounted 10 ft above the top of the existing pole with the associated coax run down the outside of the pole.

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All pertinent pole loading information was taken from the February 5, 2001 CSB Communications tower inventory report as supplied by you and are assumed to be correct. All pole structural properties and existing foundation information are as supplied by NATCOMM LLC.

PROPOSED FINAL CONFIGURATION:

- 3 new EMS RR90-17 panels at 110'-0" agl
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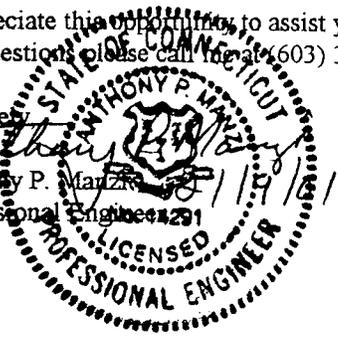
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Any changes in antenna type, platform type or routing of coax could affect the validity of this analysis and should be reevaluated.

I appreciate this opportunity to assist you and look forward to working with you in the future. If you have any questions please call me at (603) 382-6219.

Sincerely,

Anthony P. Manzi
Anthony P. Manzi
Professional Engineer





CT-179 Site Summary
MPE (Maximum Possible Exposure) Study
May 3, 2001

A. Owner of the structure on which the antenna is located and the location of the antenna:

Name of owner of the structure on which the antenna is located:	
Owner of Structure:	48 Newtown Corporation
Address of structure:	48 Newtown Road
	Danbury, CT

Latitude:	41° 24' 11" N
Longitude:	73° 25' 29" W

B. Owner of the antenna:

Name of the owner of the antenna:	AT&T Wireless Services
Address of antenna owner:	12 Omega Drive
	Stamford, CT 06907
Telephone number:	(203) 602-7000

C. Technical specifications:

FCC class (or type) of service:	PCS (IS-136)
Operating frequency of transmitter:	1965-1970MHz
Peak power output of transmitter:	8 Watts/per channel
Power into the antenna:	4 watts
Antenna manufacturer:	EMS
Antenna model:	RR90-17-00DP
Antenna type:	Panel
Gain of the antenna:	14.4 dBd
Antenna radiating pattern:	H-plane - 90°±3° E-plane -6°±1°
Polarization of radiation from antenna:	Vertical 180°
Effective radiating power:	881.4 watts ERP at centerline (maximum)

D. Power density information:

The power density values presented in the attached studies were achieved according to FCC OET-65 using the following formula:

$$S = \frac{33.4 \times P}{R^2} \quad (\text{Equation 9, FCC OET-65})$$

Where: S = Power density in $\mu\text{W}/\text{cm}^2$
P = Power (watts) ERP (effective radiated power)
R = Distance (meters)

The base of the structure is the point used to calculate the worst-case scenario based on the above equations. The results of this analysis indicate that the maximum level of RF energy in areas normally accessible to the public is below all applicable health and safety limits. Specifically, the maximum level of RF energy associated with simultaneous and continuous operation of all proposed transmitters will be less than 40.12 % of the safety criteria adopted by the Federal Communication Commission as mandated by the Telecommunications Act of 1996. The Telecommunications Act of 1996 is the applicable Federal law with respect to consideration of the environmental effects of RF emissions in the siting of personal wireless facilities. The maximum level of RF energy will also be less than 40.12% of the exposure limits of ANSI, IEEE, NCRP, and the limits used by all states that regulate RF exposure.

Point	Power Density ($\mu\text{W}/\text{cm}^2$)	Maximum Allowable ($\mu\text{W}/\text{cm}^2$)	Percentage of Maximum
AT&T	26.19	1000	2.62%
Cingular (SNET)	71.12	566.7	12.55%
Verizon	88.21	566.7	15.57%
Nextel	53.18	566.7	9.39%
Total	238.70		40.12%

The calculations of these values are shown on the attached spreadsheets.

To the best of my knowledge, the statements made and information disclosed in this study are true, complete, and correct.

May 2001
Date


David Cotton, Senior RF Engineer



Date: May 3, 2001

CT-179
Base of tower

ERP Calculator		AT&T		ERP Calculator	
Max Power to Ant port (dBm)	Art Gain on determined lobe (dBd)	ERP (dbm)	Max Power to Ant port (dBm)	Art Gain on determined lobe (dBd)	ERP (dbm)
46.051500	14.4	59.451500	0.000000	0	0.000000
(watts per channel)	Maximum Number of Channels	(watts)	(watts per channel)	Maximum Number of Channels	(watts)
4.000000	8	891.353195	0.000000	0	0.000000

ERP Calculator		Cingular		ERP Calculator	
Max Power to Ant port (dBm)	Art Gain on determined lobe (dBd)	ERP (dbm)	Max Power to Ant port (dBm)	Art Gain on determined lobe (dBd)	ERP (dbm)
52.787536	10	62.787536	0.000000	0	0.000000
(watts per channel)	Maximum Number of Channels	(watts)	(watts per channel)	Maximum Number of Channels	(watts)
10.000000	19	1900.000000	0.000000	0	0.000000

ERP Calculator		Verizon		ERP Calculator	
Max Power to Ant port (dBm)	Art Gain on determined lobe (dBd)	ERP (dbm)	Max Power to Ant port (dBm)	Art Gain on determined lobe (dBd)	ERP (dbm)
52.787536	10	62.787536	0.000000	0	0.000000
(watts per channel)	Maximum Number of Channels	(watts)	(watts per channel)	Maximum Number of Channels	(watts)
10.000000	19	1900.000000	0.000000	0	0.000000

ERP Calculator		Nextel		ERP Calculator	
Max Power to Ant port (dBm)	Art Gain on determined lobe (dBd)	ERP (dbm)	Max Power to Ant port (dBm)	Art Gain on determined lobe (dBd)	ERP (dbm)
49.542425	10	59.542425	0.000000	0	0.000000
(watts per channel)	Maximum Number of Channels	(watts)	(watts per channel)	Maximum Number of Channels	(watts)
10.000000	9	900.000000	0.000000	0	0.000000

Field density	AT&T	Cingular	Verizon	Nextel
BAND/FREQUENCY (MHz)	1900	850	850	850
Signal Level (E.R.P. dbm)	59.451500	62.787536	62.787536	59.542425
Antenna Centerline Height (ft)	110	98	88	78
Antenna Centerline Height (m)	33.528000	29.870400	26.822400	23.774400
Signal Level (E.R.P. Watts)	881.353185	1900.000000	1900.000000	900.000000
Field Density (µW/cm2)	26.186723	71.124298	88.207355	53.182534
Cumulative Density (µW/cm2)	97.311020	566.666667	185.518375	238.701009
Maximum Density OET-65 (µW/cm2)	1000.000000	566.666667	566.666667	566.666667
% of Maximum Density	2.62%	12.55%	15.57%	9.39%
Cumulative Percentage	2.62%	15.17%	30.74%	40.12%

	(none)	(none)	(none)	(none)
BAND/FREQUENCY (MHz)	0	0	0	0
Signal Level (E.R.P. dbm)	0.000000	0.000000	0.000000	0.000000
Antenna Centerline Height (ft)	0	0	0	0
Antenna Centerline Height (m)->	0.000000	0.000000	0.000000	0.000000
Feet converted to (m)->	0.000000	0.000000	0.000000	0.000000
Signal Level (E.R.P. Watts)	0.000000	0.000000	0.000000	0.000000
Field Density (µW/cm2)	0.000000	0.000000	0.000000	0.000000
Cumulative Density (µW/cm2)	238.701009	238.701009	238.701009	238.701009
Maximum Density OET-65 (µW/cm2)	0.000000	0.000000	0.000000	0.000000
% of Maximum Density	0.00%	0.00%	0.00%	0.00%
Cumulative Percentage	40.12%	40.12%	40.12%	40.12%

Percentage of Maximum _____

238.70 µW/cm2 Cumulative Density
40.12% of maximum allowable level.