



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
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August 8, 2002

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

RE: **EM-AT&T-034-051-144-161-020703** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify existing telecommunications facilities located in Danbury, Fairfield, Trumbull, and Wilton, Connecticut.

Dear Attorney Fisher:

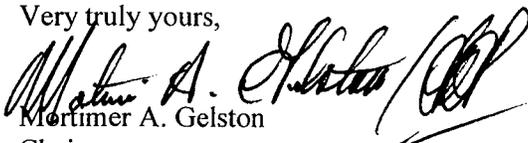
At a public meeting held on August 1, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 2, 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 sites that would not increase tower heights, extend the boundaries of the tower site, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Any additional change to these facilities 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: See attached list

List Attachment.

- c: Honorable Mark. D. Boughton, Mayor, City of Danbury
- Dennis Elpern, City Planner, City of Danbury
- Honorable Kenneth A. Flatto, First Selectman, Town of Fairfield
- Joseph E. Devonshuk, Town Planner, Town of Fairfield
- Honorable Paul F. Hannah, Jr., First Selectman, Town of Wilton
- Robert Nerney, Town Planner, Town of Wilton
- Honorable Raymond G. Baldwin, Jr., First Selectman, Town of Trumbull
- Harry Eberhart, Zoning Enforcement Officer, Town of Trumbull

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July 2, 2002

VIA FEDERAL EXPRESS

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

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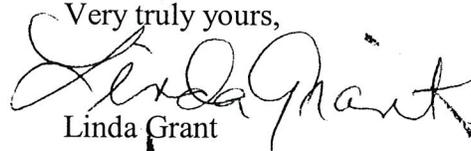
CONNECTICUT
SITING COUNCIL

Re: AT&T Wireless Notice of Exempt Modification
Quarry Road, Trumbull, Connecticut
Morehouse Road, Fairfield, Connecticut
27 Cannon Road, Wilton, Connecticut
48 Newtown Road, Danbury, Connecticut

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

On behalf of AT&T Wireless, we respectfully enclose an original and twenty-five copies of its notice of exempt modification with respect to the above mentioned facilities together with a check in the amount of \$500.00. We would appreciate it if these matters were placed on the next available agenda for acknowledgment by the Council. Should the Council or staff have any questions regarding this matter, please do not hesitate to contact us.

Very truly yours,


Linda Grant

cc: Christopher B. Fisher, Esq.

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July 1, 2002 **RECEIVED**

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CONNECTICUT
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VIA FEDERAL EXPRESS

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

Re: AT&T Wireless – Petition No. 525
Morehouse Road, Fairfield, Connecticut
Notice of Exempt Modification

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

On June 6, 2001 the Council determined that AT&T's proposed installation on an existing CL&P electric transmission facility would not require a Certificate of Environmental Compatibility and Public Need (Petition No. 525) pursuant to Section 16-50g. et seq. of the General Statutes of Connecticut. AT&T's existing facility consists of panel antennas on existing CL&P transmission line structure number 876 with associated equipment on a steel platform located within a fenced compound on Morehouse Road in Fairfield, Connecticut.

At this time, AT&T is notifying the Connecticut Siting Council of its intent to modify the existing facility pursuant to Section 16-50j-72 of the Regulations of Connecticut State Agencies. AT&T will be replacing existing antennas "in kind" and installing an additional equipment cabinet (approximately 76"H x 76"W x 30"D) on the existing steel platform at the facility. There will be no other material infrastructure changes to AT&T's facility.

The proposed addition of equipment to AT&T Wireless' facility does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-

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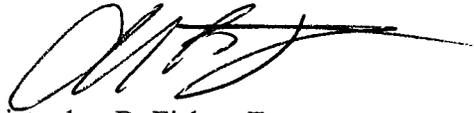
July 1, 2002

Page 2

50i(d). The proposed addition to AT&T Wireless' facility will not result in an increase in the Tower's height or extend the boundaries of the existing fenced area surrounding the Tower. Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. Moreover, the additional channels being deployed by AT&T at the facility together with existing channels at the site will not result in power densities exceeding the "worst case" for AT&T as originally set forth in Petition No. 525. For all the foregoing reasons, addition of AT&T Wireless' equipment to its existing facility constitutes an exempt modification which will not have a substantially adverse environmental effect.

Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the Morehouse 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 Fairfield
Darryl Hendrickson, Bechtel Telecommunications



*Wireless Facilities, Inc.
1840 Michael Faraday Drive
Suite 200
Reston, VA 20190*

June 5, 2002

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: FCC Compliance Statement for AT&T Site CT-145 (Fairfield North-Harbeson)

Dear Mr. Gelston:

On behalf of AT&T Wireless, Wireless Facilities, Inc. has performed office analyses for the above referenced site to determine compliance with FCC mandated Maximum Permissible Exposure (MPE) limits as defined in 47 CFR § 1.1310.

The table below gives a brief summary of the site location, its configuration and associated technical parameters.

<i>Summary of Site Parameters</i>	
Site ID	CT-145
Site Name	Fairfield North (Harbeson)
Latitude	41.210556
Longitude	-73.261111
Address of Structure	Morehouse Road Fairfield, CT
Type of Structure	Lattice Tower
FCC Class and Type of Service	PCS TDMA (IS-136) PCS GSM
Operating Frequency	PCS Band
Azimuths (deg.)	0, 120, 240
Antenna Radiation Center, AGL	86 ft.
Antenna Configuration	1 Antenna per Sector
Antenna Type	Panel

The mathematical equations used in evaluating the power density values are exactly as outlined in the Office of Engineering & Technology (OET) Bulletin Number 65, which contains the FCC guidelines for evaluating human exposure to radio-frequency electromagnetic fields.

In the case of a single radiating antenna, a prediction for power density in the far field of the antenna can be written as:

$$S = \frac{EIRP}{4\pi D^2} = \frac{1.64 * ERP}{4\pi D^2}$$

Where: S = Power density in W/m²
 EIRP = Effective isotropic radiated power (W)
 ERP = Effective radiated power (W)
 D = Distance in meters

Using the EPA's recommended factor of 1.6 for 100 % reflection, the worst-case power density can be obtained by incorporating this factor into the above equation. If the distance, D, is in centimeters, the ERP is in Watts, then the worst case power density in mW/cm² is given by:

$$S = \frac{(1.64)(.64)(ERP)(1000 \text{ mW / W})}{\pi D^2}$$

Where: S = Power density in mW/cm²
 ERP = Effective radiated power in Watts (# of channels x ERP/channel)
 D = Distance in centimeters

The results presented in this analysis are based on the following:

- WFI's analysis considered the transmit parameters for AT&T's existing TDMA system, for the future GSM deployment they are proposing, and for all other existing carriers.
- The formula utilized for the calculations is taken directly from the FCC OET Bulletin 65 as shown above.
- A 100% duty cycle with maximum power and the maximum number of channels for each system was assumed.
- ◆ A worst-case scenario was assumed with all antennas for the existing and future installations pointing directly at the base of the tower. No antenna discrimination was considered.

The following transmission parameters were used throughout this analysis.

Description	AT&T PCS		Voicestream PCS	Sprint PCS
	Current	Future		
Max. ERP/Ch, Watts	130.9	275	281.96	122
Max. No. of Ch/Sector	8	4	4	11
Max. ERP/Sector, Watts	1047.1	1100	1127.84	1342
Antenna Centerline, ft.	86	86	95	101

The maximum worst-case values of the power density for this analysis are outlined below:

Provider/Carrier		Point of Worst Case Predicted Level	Predicted Value ($\mu\text{W}/\text{cm}^2$)	MPE Limit for Uncontrolled Environment Set by FCC ($\mu\text{W}/\text{cm}^2$)	% of the Standard
AT&T	Current PCS TDMA	Base of the tower	58.80	1000	5.88
	Future PCS GSM	Base of the tower	61.76	1000	6.18
Sprint, PCS		Base of the tower	53.43	1000	5.34
Voicestream, PCS		Base of the tower	51.16	1000	5.12
Total % of Standard					22.52

The results of these analyses indicate that output power levels for the AT&T owned equipment deployed at the above referenced facility meet FCC approved exposure limits for all uncontrolled areas where general population exposure may exist. Thus, the maximum level of RF radiation contributed by AT&T in all uncontrolled areas, assuming a worst case scenario and a 100% duty cycle for all transmitters, is equal to or less than 12.06% (5.88 + 6.18) of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

Based on the transmit parameters indicated on the table above, the worst-case composite level of RF radiation in all uncontrolled areas for all identified systems operating at this facility is equal to or less than 22.52% of the FCC maximum permissible exposure limit.

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

Sincerely,
Wireless Facilities, Inc.



Dan Hardiman
Senior Engineer II
Fixed Network Engineering