



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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April 30, 2002

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

RE: **EM-AT&T-002-015-138-158-161-020417** – AT&T Wireless notice of intent to modify existing telecommunications facilities located at: 401 Wakelee Avenue, Ansonia; 1875 Noble Avenue, Bridgeport; 623-627 Honeyspot Road, Stratford; 20 Post Office Lane, Westport; and 289 Danbury Road, Wilton, Connecticut.

Dear Atty. Fisher:

At a public meeting held on April 25, 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[s] dated April 16, 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/DM/laf

c: Honorable James T. DellaVolpe, Mayor, City of Ansonia
Honorable Joseph P. Ganim, Mayor, City of Bridgeport
Mr. Mark S. Barnhart, Town Manager, Town of Stratford
Honorable Diane G. Farrell, First Selectman, Town of Westport
Honorable Paul F. Hannah, Jr., First Selectman, Town of Wilton

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April 16, 2002

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CONNECTICUT
SITING COUNCIL

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. 455
289 Danbury Road, Wilton, Connecticut
Notice of Exempt Modification

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

On May 10, 2000 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. 455) pursuant to Section 16-50g. et seq. of the General Statutes of Connecticut. AT&T's existing facility consists of three panel antennas on a 8.6" diameter pipe extension to an overall elevation of approximately 101' AGL on existing CL&P transmission line structure number 2998 with associated equipment cabinets mounted on piers at the base of the existing tower within a fenced compound located at 289 Danbury Road in Wilton, 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 proposes to install an additional equipment cabinet (approximately 76"H x 76"W x 30"D) on the existing piers at AT&T's facility. There will be no other infrastructure changes to AT&T's facility.

CUDDY & FEDER & WORBY LLP

April 15, 2002

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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 16-50i(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. 455. 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 Danbury 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 Wilton
Darryl Hendrickson, Bechtel Telecommunications



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

March 28, 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-058 (Wilton-Transmission Tower)

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.

<u>Summary of Site Parameters</u>	
Site ID	CT-058
Site Name	Wilton-Transmission Tower
Latitude	41.195
Longitude	-73.43138
Address of Structure	289 Danbury Road, Fairfield, CT
Type of Structure	Lattice Tower
Antenna Owner	AT&T
Address of Antenna Owner	15 East Midland Ave. Paramus, NJ 07652
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)	99 ft.
Antenna Manufacturer	EMS Wireless
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/m^2

$EIRP$ = 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/cm^2 is given by

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

Where: S = Power density in mW/cm^2

ERP = Effective radiated power (W) (# of channels x $ERP/\text{channel}$)

D = Distance in centimeters

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

- ◆ WFI's analysis considered the transmit parameters for both AT&T's existing TDMA system and the future GSM deployment they are proposing.
- ◆ The formula utilized for the calculation is taken directly from the FCC OET Bulletin 65 as shown above.
- ◆ The worst-case scenario was assumed with all of the antennas for both the current and the future installation pointing to the base of the tower.
- ◆ A 100% duty cycle with maximum power and the maximum number of channels for each system was assumed.

Description	AT&T PCS	
	Current	Future
Max. ERP/Ch , Watts	129.5	275
Max. No. of Ch/Sector	16	4
Max. ERP/Sector , Watts	2072	1100
Antenna Centerline, ft.	99	99

The maximum calculated values of power density for this analysis are outlined below:

Provider/Carrier		Point of Worst Case Predicted Level	Predicted Value ($\mu\text{W}/\text{cm}^2$)	Maximum Limit for PCS Band Uncontrolled Environment Set by FCC ($\mu\text{W}/\text{cm}^2$)	% of the Standard
AT&T	Current PCS TDMA	Base of the Tower	86.08	1000	8.61
	Future PCS GSM	Base of the Tower	45.70	1000	4.57
		Total % of Standard			13.18

Note: AT&T is the only carrier on this structure.

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 in all uncontrolled areas, assuming a worst case scenario and a 100% duty cycle for all transmitters, is equal to or less than 13.18% of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

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