



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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Web Site: www.state.ct.us/csc/index.htm

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:

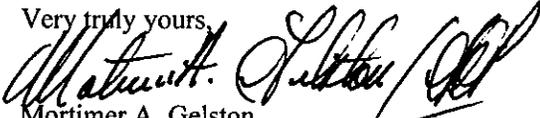
At a public meeting held on April 25, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

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

EM-AT&T-002-015-138-158-161-020417
CUDDY & FEDER & WORBY LLP

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LOUIS R. TAFFERA

VIA FEDERAL EXPRESS

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

April 16, 2002

RECEIVED

APR 17 2002

**CONNECTICUT
SITING COUNCIL**

Re: AT&T Wireless Notice of Exempt Modification
289 Danbury Road, Wilton, Connecticut
✓ 623-627 Honeyspot Road, Stratford, Connecticut
✓ 1875 Noble Avenue, Bridgeport, Connecticut
20 Post Office Lane, Westport, Connecticut
✓ 401 Wakelee Avenue, Ansonia, 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.

CUDDY & FEDER & WORBY LLP

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VIA FEDERAL EXPRESS

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Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

April 16, 2002

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Re: AT&T Wireless – TS- VER -002-010531
401 Wakelee Avenue, Ansonia, Connecticut
Notice of Exempt Modification

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

On July 11, 2001 the Council ruled that AT&T's proposed shared use of the existing Verizon facility complied with Section 16-50aa of the Regulations of Connecticut State Agencies (TS- VER -002-010531) permitting AT&T to install panel antennas on the existing tower, with associated equipment cabinets located on a concrete pad within the existing fenced compound located at 401 Wakelee Avenue in Ansonia, Connecticut.

This notice of exempt modification is being provided pursuant to Section 16-50j-72 of the Council's regulations. AT&T will be installing an additional equipment cabinet (approximately 76"H x 76"W x 30"D) on the concrete pad at the facility. There will be no other 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 16-50i(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.

CUDDY & FEDER & WORBY LLP

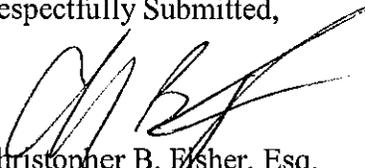
April 15, 2002

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Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. AT&T has made measurements of the existing facility to confirm compliance with MPE limits and as set forth in a report prepared by Wireless Facilities, Inc., annexed hereto, 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. 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 Wakelee Avenue Facility meets the Council's exemption criteria and requests an acknowledgement of same.

Respectfully Submitted,



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

cc: Mayor, City of Ansonia
Darryl Hendrickson, Bechtel Telecommunications



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

April 1, 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-285 (Ansonia NW)

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><i>Summary of Site Parameters</i></u>	
Site ID	CT-285
Site Name	Ansonia NW
Latitude	41° 21' 21" N
Longitude	73° 05' 29" W
Address of Structure	401 Wakalee Avenue, Ansonia, CT 06401
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, 100, 210
Antenna Radiation Center, AGL	158 ft.
Antenna Manufacturer	Allgon
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

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

Where: S = Power density in mW/cm²
 ERP = Effective radiated power (W) (# 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 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		SNET Cellular	Verizon Cellular	Sprint PCS	Nextel ESMR
	Current	Future				
Max. ERP/Ch, Watts	105.1	275	100	100	125.893	100
Max. No. of Ch/Sector	16	4	19	19	11	9
Max. ERP/Sector, Watts	1681.6	1100	1900	1900	1384.818	900
Antenna Centerline, ft.	158	158	168	178	187	194

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 Uncontrolled Environment Set by FCC ($\mu\text{W}/\text{cm}^2$)	% of the Standard
AT&T	Current PCS TDMA	Base of the tower	26.15	1000	2.62
	Future PCS GSM	Base of the tower	17.11	1000	1.71
SNET, Cellular		Base of the tower	26.01	550	4.73
Verizon, Cellular		Base of the tower	23.08	550	4.20
Sprint, PCS		Base of the tower	15.19	1000	1.52
Nextel, ESMR		Base of the tower	9.15	567.3	1.61
Total % of Standard					16.39

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. 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 4.33% (2.62 + 1.71) of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

Based on the transmit parameters as indicated in 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 16.39% 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



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April 18, 2002

Honorable James T. DellaVolpe
Mayor
City of Ansonia
City Hall
253 Main Street
Ansonia, CT 06401-1866

RE: **EM-AT&T-002-015-138-158-161-020417** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify existing telecommunications facilities located in Ansonia, Bridgeport, Stratford, Westport, and Wilton, Connecticut.

Dear Mr. DellaVolpe:

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 April 25, 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/laf

Enclosure: Notice of Intent

c: Peter Crabtree, Zoning Enforcement Officer, City of Ansonia