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

October 24, 2002

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

RE: **EM-AT&T-077-031-037-021010** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify existing telecommunications facilities located at 205 Spencer Street, Manchester, 500 Queen Street, Southington, and 86 Voluntown Road, Stonington, Connecticut.

Dear Attorney Fisher:

At a public meeting held on October 23, 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, with the condition that the equipment cabinets at the Manchester site be painted beige in accordance with town zoning stipulations.

The proposed modifications are to be implemented as specified here and in your notice dated October 9, 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/DM/laf

c: See attached list

I:\siting\em\at&t\manchester\southington\stonington\dc092302.doc

List Attachment.

c: Honorable Stephen T. Cassano, Mayor, Town of Manchester
Richard J. Sartor, General Manager, Town of Manchester
Thomas R. O'Marra, Zoning Enforcement Officer, Town of Manchester
Honorable William V. DePaolo, Town Council Chairman, Town of Southington
John Weichsel, Town Manager, Town of Southington
Mary Hughes, Town Planner, Town of Southington
Honorable Peter Dibble, First Selectman, Town of Stonington
Edward Donnelly, Town Planner, Town of Stonington

CUDDY & FEDER & WORBY LLP

90 MAPLE AVENUE
WHITE PLAINS, NEW YORK 10601-5196

(914) 761-1300
TELECOPIER (914) 761-5372/6405
www.cfwlaw.com

500 FIFTH AVENUE
NEW YORK, NEW YORK 10110
(212) 944-2841
TELECOPIER (212) 944-2843

WESTAGE BUSINESS CENTER
300 SOUTH LAKE DRIVE
FISHKILL, NEW YORK 12524
(845) 896-2229
TELECOPIER (845) 896-3672

STAMFORD, CONNECTICUT
NORWALK, CONNECTICUT

NEIL J. ALEXANDER (also CT)
CHARLES T. BAZYDLO (also NJ)
THOMAS R. BEIRNE (also DC)
THOMAS M. BLOOMER
JOSEPH P. CARLUCCI
KENNETH J. DUBROFF
ROBERT FEDER
CHRISTOPHER B. FISHER (also CT)
ANTHONY B. GIOFFRE III (also CT)
SUSAN E.H. GORDON
KAREN G. GRANIK
JOSHUA J. GRAUER
WAYNE E. HELLER (also CT)
KENNETH F. JURIST
MICHAEL L. KATZ (also NJ)
JOSHUA E. KIMERLING (also CT)
DANIEL F. LEARY (also CT)
BARRY E. LONG

CUDDY & FEDER
1971-1995

WILLIAM S. NULL
DAWN M. PORTNEY
ELISABETH N. RADOW
NEIL T. RIMSKY
RUTH E. ROTH
JENNIFER L. VAN TUYL
CHAUNCEY L. WALKER (also CA)
ROBERT L. WOLFE
DAVID E. WORBY

Of Counsel
MICHAEL R. EDELMAN
ANDREW A. GLICKSON (also CT)
ROBERT L. OSAR (also TX)
MARYANN M. PALERMO
ROBERT C. SCHNEIDER
LOUIS R. TAFFERA

October 9, 2002

RECEIVED
OCT 10 2002
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-TS-AT&T-137-010423-2
86 Voluntown Road, Stonington, Connecticut
Notice of Exempt Modification

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

On May 10, 2001 the Council ruled that AT&T's proposed shared use of the SBA facility located at 86 Voluntown Road, in the Town of Stonington complied with Section 16-50aa of the Regulations of Connecticut State Agencies (TS-AT&T-137-010423-2) permitting AT&T to install panel antennas at approximately the 150' level of the tower, with associated equipment cabinets located on a concrete pad within the fenced compound.

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 existing concrete pad 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 16-50i(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.

EM-AT&T-077-131-137-021010

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.

AT&T Wireless respectfully submits that the proposed addition of equipment to the Voluntown Road Facility meets the Council's exemption criteria and requests an acknowledgment of same.

Respectfully Submitted,

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

cc: First Selectman, Town of Stonington
Darryl Hendrickson, Bechtel Telecommunications

the global leader
IN TELECOM OUTSOURCING

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

August 29, 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-231 (Stonington East)

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.

Summary of Site Parameters	
Site ID	CT-231
Site Name	Stonington East
Latitude	41.4055
Longitude	-71.8452
Address of Structure	86 Voluntown Road Stonington, CT
Type of Structure	Monopole
FCC Class and Type of Service	PCS TDMA (IS-136) PCS GSM
Operating Frequency	PCS Band
Azimuths (deg.)	30, 150, 270
Antenna Radiation Center, AGL	150 ft.
Antenna Configuration	2 Antennas 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/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:

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

Where: S = Power density in mW/cm^2
ERP = Effective radiated power in W*atts* (# 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.

Carrier / Agency	Operating Frequency (MHz)	Maximum ERP/Ch (Watts)	Maximum No. of Xmtrs per Sector	Maximum ERP per Sector (Watts)	Antenna Centerline (ft.)
AT&T, Current	1900	116.5	8	932	150
AT&T, Future	1900	275	4	1100	150
Sprint	1900	123.03	11	1353.33	195
Nextel	851	100	9	900	180
Voicestream	1900	123.03	8	984.22	165

The maximum worst-case values for power density calculated in this analysis are outlined below:

Carrier / Agency	Point of Worst Case Predicted Level	Predicted Value ($\mu W/cm^2$)	Maximum Limit for Uncontrolled Environment Set by FCC ($\mu W/cm^2$)	% of the Standard
AT&T, Current PCS TDMA	Base of the tower	16.150	1000	1.615
AT&T, Future PCS GSM	Base of the tower	19.06	1000	1.906
Sprint, PCS	Base of the tower	13.614	1000	1.361
Nextel, ESMR	Base of the tower	10.682	567.33	1.883
Voicestream, PCS	Base of the tower	13.989	1000	1.399
			Total % of Standard	**8.164**

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 3.521% (1.615 + 1.906) 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 8.164% 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