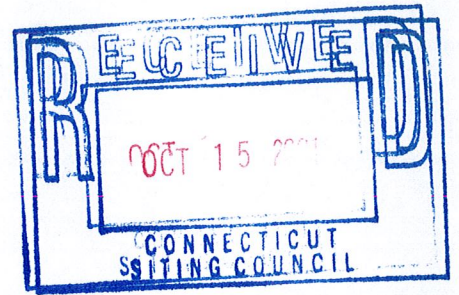




# City of Bristol

BRISTOL, CONNECTICUT 06010



October 12, 2001

Joel Rinebold, Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: TS-AT&T-017-101927 – Request by AT&T Wireless PCS LLC to CT Siting Council for an order to approve tower sharing at an existing telecommunications facility at 1214 Farmington Avenue, Bristol

Dear Mr. Rinebold:

At its meeting of October 10, 2001, the Bristol Zoning Commission discussed the above-referenced request, a copy of which you forwarded to me on September 28, 2001. It was the consensus of the Commission to support AT&T's application, inasmuch as its proposal is consistent with the Commission's objective of encouraging the co-location of multiple carriers on existing telecommunications towers in Bristol in order to minimize the need for the erection of new towers. The Nextel tower on which AT&T proposes to locate its antennas was approved by the Commission with just such an objective in mind.

Should you have any questions, please call me at 860/584-7645.

Very truly yours,

A handwritten signature in blue ink that reads "Alan L. Weiner".

Alan L. Weiner  
City Planner

ALW/nk

c: Mayor Frank Nicastro, Sr.



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

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

September 28, 2001

Honorable Frank N. Nicastro, Sr.  
Mayor  
City of Bristol  
City Hall  
111 North Main Street  
P.O.Box 114  
Bristol, CT 06010-0114

RE: **TS-AT&T-017-010927** - AT&T Wireless PCS LLC request for an order to approve tower sharing at an existing telecommunications facility located at 1214 Farmington Avenue, Bristol, Connecticut.

Dear Mr. Nicastro:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for October 17, 2001, at 1:30 p.m. in Hearing Room Two, 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,

A handwritten signature in black ink, appearing to read "Joel M. Rinebold".

Joel M. Rinebold  
Executive Director

JMR/laf

Enclosure: Notice of Tower Sharing

c: Alan Weiner, Planner/Dev. Coordinator, City of Bristol

**CUDDY & FEDER & WORBY LLP**

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NEW YORK, NEW YORK 10110  
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STAMFORD, CONNECTICUT  
NORWALK, CONNECTICUT

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JOSHUA E. KIMERLING (also CT)  
DANIEL F. LEARY (also CT)  
BARRY E. LONG

September 26, 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 Nextel Tower Facility at  
1214 Farmington Avenue, Bristol, 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, 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 1214 Farmington Avenue in the Town of Bristol (the "Farmington Avenue Facility"), owned by Nextel Communications ("Nextel"). AT&T Wireless and Nextel have agreed to the shared use of the Farmington Avenue Facility, as detailed below.

The Farmington Avenue Facility

The Farmington Avenue Facility consists of an approximately one hundred fifty (150) foot high monopole tower (the "Tower") currently being used by Nextel Communications. A chain link fence surrounds the Farmington Avenue Facility. Current surrounding land uses are primarily commercial.

September 26, 2001

Page 2

AT&T Wireless' Facility

As shown on the enclosed plans prepared by URS Greiner, including a site plan and tower elevation of the Farmington Avenue 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 fenced compound. AT&T Wireless will install up to twelve (12) panel antennas at approximately the 130' foot level of the Tower. Associated unmanned equipment cabinets will be located on a concrete pad near the base of the tower within the existing Tower compound.

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 Farmington Avenue 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 URS Corporation dated September 24, 2001 confirming the structural integrity of the Tower annexed hereto as Exhibit A.
- 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 Farmington Avenue 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;

September 26, 2001

Page 3

2. The proposed installation by AT&T Wireless would not increase the height of the tower or extend the boundaries of the Farmington Avenue 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 4.78% of the standard. See Cumulative Emissions Compliance Report dated September 25, 2001, prepared by Alex Murillo, AT&T Radio Frequency Engineer, annexed hereto as Exhibit B;
  5. The proposed shared use of the Farmington Avenue 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 The Applicant and the tower owner have agreed to share use of the Farmington Avenue 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 B, 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 Bristol area through shared use of the Farmington Avenue 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.

CUDDY & FEDER & WORBY LLP

September 26, 2001

Page 4

Conclusion

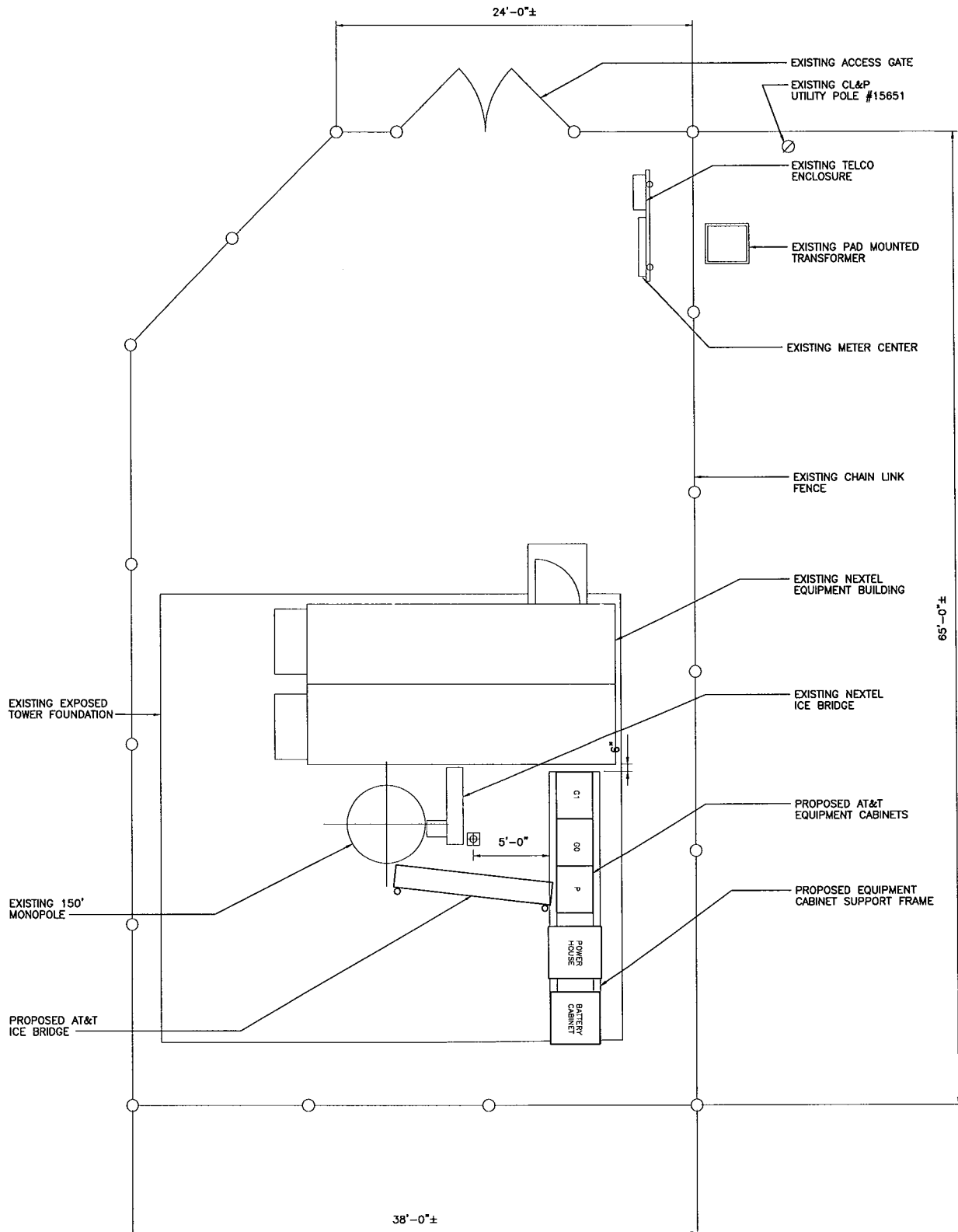
As delineated above, the proposed shared use of the Farmington Avenue Facility satisfies the criteria set forth in C.G.S. § 16-50aa, and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in the State of Connecticut. AT&T Wireless therefore requests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

Respectfully submitted,

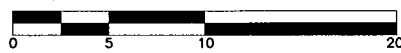


Christopher B. Fisher, Esq.  
On behalf of AT&T Wireless

cc: Mayor, City of Bristol  
Carmen Chapman, AT&T Wireless  
Rich Zelazny, Pinnacle Site Development  
Harold Hewett, Bechtel Telecommunications



**1** COMPOUND PLAN  
 SC-1 SCALE: 1" = 10'-0"



**URS**  
 URS CORPORATION-CT  
 500 ENTERPRISE DRIVE  
 ROCKY HILL, CT. 06067  
 1-(860)-529-8882

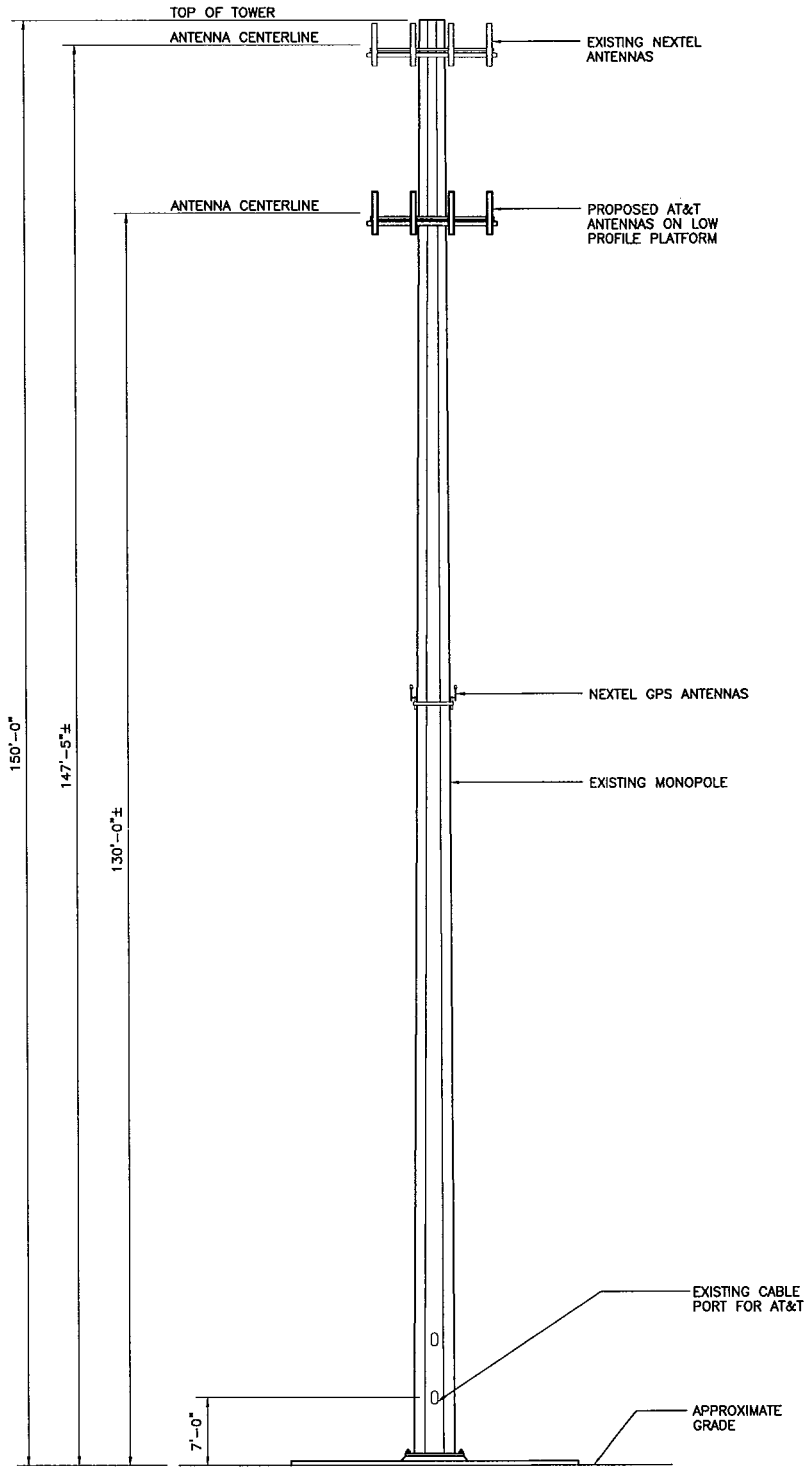
**AT&T**  
 AT&T WIRELESS PCS LLC  
 12 OMEGA DRIVE  
 STAMFORD, CONNECTICUT 06902

**DRAWING TITLE:** COMPOUND PLAN

**PROJECT INFORMATION:**  
 BRISTOL-FORRESTVILLE  
 24445-3CO-287.4-SC1-0  
 1214 FARMINGTON AVE.  
 BRISTOL, CONNECTICUT

**PROPERTY OWNER:**  
 NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC  
 100 CORPORATE PLACE  
 ROCKY HILL, CT 06067

SCALE:	AS NOTED	DRAWN BY:	MCD
DATE ISSUED:	08/27/01	CHECKED BY:	ICA
APPROVED BY:			
<b>ISSUED FOR SITING COUNCIL</b>			
JOB NO.	SITE NO.	DRAWING NUMBER	REV.
24445	3CO-287.4	SC-1	0



1 TOWER ELEVATION  
 SC-2 SCALE: 1" = 20'-0"



**URS**  
 URS CORPORATION-CT  
 500 ENTERPRISE DRIVE  
 ROCKY HILL, CT. 06067  
 1-(860)-529-8882  
 URS JOB NO.: F301924.25

  
**AT&T**  
 AT&T WIRELESS PCS LLC  
 12 OMEGA DRIVE  
 STAMFORD, CONNECTICUT 06902

**DRAWING TITLE:** TOWER ELEVATION  
**PROJECT INFORMATION:**  
 BRISTOL-FORRESTVILLE  
 24445-3CO-287.4-SC2-0  
 1214 FARMINGTON AVE.  
 BRISTOL, CONNECTICUT  
**PROPERTY OWNER:**  
 NEXTEL COMMUNICATIONS OF THE MID-ATLANTIC, INC  
 100 CORPORATE PLACE  
 ROCKY HILL, CT 06067

SCALE:	AS NOTED	DRAWN BY:	MCD
DATE ISSUED:	08/27/01	CHECKED BY:	ICA
		APPROVED BY:	
<b>ISSUED FOR SITING COUNCIL</b>			
JOB NO.	SITE NO.	DRAWING NUMBER	REV.
24445	3CO-287.4	SC-2	0





September 24, 2001

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

**Reference: Proposed AT&T Telecommunications Facility  
Nextel Communications Monopole  
AT&T Site No.: CT-287  
1214 Farmington Avenue  
Bristol, Connecticut  
F300001924.25**


Dear Mr. Gelston:

URS Corporation AES (URS) has reviewed the monopole design for the Nextel Communications monopole located at 1214 Farmington Avenue in Bristol, Connecticut. The monopole was designed by Summit Manufacturing, LLC, project number 11622, Nextel site number CT-1026. The structural review was performed by this Office and has concluded that the existing monopole will support the additional loads of the (12) EMS FV90-16-00, AT&T Wireless antennas, coax cables and low profile platforms at the 127'-5" level. This tower review was performed to the requirements of EIA/TIA-222-F.

Please contact me if there are any questions.

Sincerely,

**URS Corporation AES**



Ignacio C. Artaiz, AIA  
Telecommunications Group Manager

ICA/mks

cc: Don Huntley, Bechtel  
Harold Hewett, Bechtel  
CF/Book



**CT-287.1.4 Site Summary**  
**MPE (Maximum Possible Exposure) Study**  
**September 25, 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:	Nextel Communications
Address of structure:	1214 Farmington Ave
	Bristol, CT

Latitude:	41° 29' 59"
Longitude:	72°50' 34"

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) 602-7029

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:	DAPA
Antenna model:	58210
Antenna type:	Panel
Gain of the antenna:	15 dBd
Antenna radiating pattern:	H-plane - 92° E-plane - 7°
Polarization of radiation from antenna:	Vertical
Effective radiating power:	1011.92 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:

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

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

Two measurements were taken for this structure. Besides the AT & T carrier information the measurements for Nextel were also included for the purposes of this study. Given the above equation, the worse case ground scenario is located at the base of the tower.

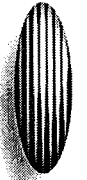
The results of this analysis indicate that the maximum level of RF energy in areas normally accessible to the public is below all applicable health and safety limits. Specifically, the maximum level of RF energy associated with simultaneous and continuous operation of all proposed transmitters will be less than 4.78% 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 4.78% of the exposure limits of ANSI, IEEE, NCRP, and the limits used by all states that regulate RF exposure.

Carrier	Power Density ( $\mu\text{W}/\text{cm}^2$ )	Maximum Allowable ( $\mu\text{W}/\text{cm}^2$ )	Percentage of Maximum
AT&T	<b>21.53</b>	1000	2.15%
Nextel	14.87	566.7	2.62%
<b>Total:</b>	<b>36.40</b>		<b>4.78%</b>

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.

9-25-01 \_\_\_\_\_  
Date Alex Murillo, RF Engineer



**AT&T Wireless**

Date: September 25, 2001

CT-287.1.4  
Base of tower

ERP Calculator		AT & T		ERP Calculator (Start here)		Carrier 2					
Max Power to Ant port (dBm)	45.051500	Ant Gain on determined lobe (dBd)	15	ERP (dbm)	60.051500	Max Power to Ant port (dBm)	0.000000	Ant Gain on determined lobe (dBd)	0	ERP (dbm)	0.000000
(watts per channel)	4.000000	Maximum Number of Channels	8	(watts)	1011.928851	(watts per channel)	0.000000	Maximum Number of Channels	0	(watts)	0.000000

ERP Calculator -		Nextel		ERP Calculator (Start here)		Carrier 1					
Max Power to Ant port (dBm)	49.542425	Ant Gain on determined lobe (dBd)	10	ERP (dbm)	59.542425	Max Power to Ant port (dBm)	0.000000	Ant Gain on determined lobe (dBd)	0	ERP (dbm)	0.000000
(watts per channel)	10.000000	Maximum Number of Channels	9	(watts)	900.000000	(watts per channel)	0.000000	Maximum Number of Channels	0	(watts)	0.000000

Field density		AT & T		Nextel	
BAND/FREQUENCY (MHz)		1900		850	
Signal Level (E.R.P. dbm)		60.051500		59.542425	
Antenna Centerline Height (ft)		130		147.5	
Antenna Centerline Height (m)		39.624000		44.958000	
Signal Level (E.R.P. Watts)		1011.928851		900.000000	
Field Density (uW/cm2)		21.526817		14.872193	
Cumulative Density (uW/cm2)		21.526817		36.399010	
Maximum Density OET-65 (uW/cm2)		1000.000000		566.666667	
% of Maximum Density		2.15%		2.62%	
Cumulative Percentage		2.15%		4.78%	
Percentage of Maximum _____					

36.40 uW/cm2 Cumulative Density  
4.78% Cumulative % of maximum allowable level.

**CUDDY & FEDER & WORBY LLP**

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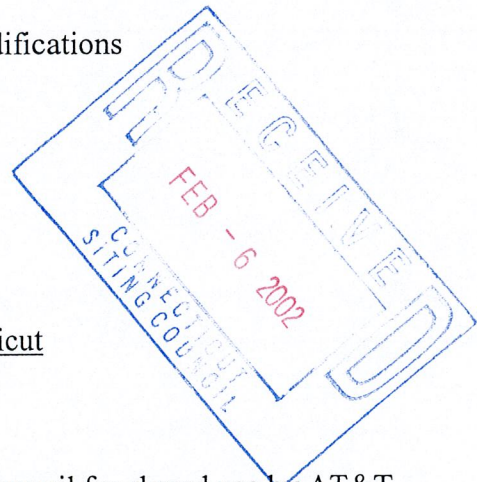
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MICHAEL L. KATZ (also NJ)  
JOSHUA E. KIMERLING (also CT)  
DANIEL F. LEARY (also CT)  
BARRY E. LONG

February 6, 2002

**BY HAND**

Mr. Derrick Phelps  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: AT&T Wireless – Post Approval Construction Modifications  
Chapel Street, Stratford, Connecticut  
474 Main Street, Monroe, Connecticut  
2577 Main Street, Glastonbury, Connecticut  
1214 Farmington Avenue, Bristol, Connecticut  
Flanders Road, East Lyme, Connecticut  
238 Meriden Road, Middlefield, Connecticut  
Old Route 79, Madison, Connecticut  
Noroton Heights Railroad Station, Darien, Connecticut



Dear Mr. Phelps:

The above referenced sites were approved by the Council for shared use by AT&T Wireless ("AT&T") in the fourth quarter of 2001. As of the first of this year and due to changes in the technology being deployed by AT&T in the State, some of its equipment specifications have changed. Universally, the equipment to be deployed at each of the above referenced sites requires less ground space than previously required and approved by the Council.

The purpose of this letter is to outline those material changes at each site as they relate to the Council's prior approvals. Further, we respectfully request that these changes be handled as a construction related matter by Council staff and that this letter be added to the Council's respective files for purposes of future clarity. The following material changes are proposed:

# CUDDY & FEDER & WORBY LLP

February 6, 2002

Page 2

## Petition No. 528 - Chapel Street, Stratford, Connecticut

Replace approved 12'-0" x 20'-0" concrete equipment pad with a 5'-3" x 6'-0" concrete equipment pad for the initial build and an adjacent 5'-3" x 6'-0" concrete equipment pad for potential growth. The proposed Lucent equipment cabinets will be replaced with two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for the initial build and two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for potential growth.

## TS-AT&T-085-011017 - 474 Main Street, Monroe, Connecticut

Replace approved 16'-0" x 8'-6" concrete equipment pad with a 5'-3" x 6'-0" concrete equipment pad for the initial build and an adjacent 5'-3" x 6'-0" concrete equipment pad for potential growth. The proposed Lucent equipment cabinets will be replaced with two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for the initial build and two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for potential growth.

## TS-AT&T-054-010906 - 2577 Main Street, Glastonbury, Connecticut

Replace approved 12'-0" x 20'-0" equipment shelter with a 5'-3" x 6'-0" concrete equipment pad for the initial build and an adjacent 5'-3" x 6'-0" concrete equipment pad for potential growth. The proposed Lucent equipment cabinets will be replaced with two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for the initial build and two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for potential growth.

## TS-AT&T-017-010927 - 1214 Farmington Avenue, Bristol, Connecticut

Replace Lucent equipment cabinets with two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for the initial build and two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for potential growth

## Petition No. 530 - Flanders Road, East Lyme, Connecticut

Replace approved 12'-0" x 20'-0" concrete equipment pad with a 5'-3" x 6'-0" concrete equipment pad for the initial build and an adjacent 5'-3" x 6'-0" concrete equipment pad for potential growth. The proposed Lucent equipment cabinets will be replaced with two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for the initial build and two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for potential growth

CUDDY & FEDER & WORBY LLP

February 6, 2002

Page 3

TS-AT&T-082-011017 - 238 Meriden Road, Middlefield, Connecticut

Replace approved 12'-0" x 20'-0" concrete equipment pad with a 5'-3" x 6'-0" concrete equipment pad and replace proposed Lucent equipment cabinets with two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D.

TS-AT&T-076-010827 - Old Route 79, Madison, Connecticut

Replace approved 17'-10" x 8'-6" concrete equipment pad with a 5'-3" x 6'-0" concrete equipment pad for the initial build and an adjacent 5'-3" x 6'-0" concrete equipment pad for potential growth. The proposed Lucent equipment cabinets will be replaced with two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for the initial build and two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D for potential growth.

Petition No. 529 – Noroton Heights Railroad Station, Darien, Connecticut

Replace approved 12'-0" x 20'-0" concrete equipment pad with a 5'-3" x 6'-0" concrete equipment pad and replace proposed Lucent equipment cabinets with two Nokia equipment cabinets, each 76.4"H x 30.3"W x 29.5"D.

Should you, the Council or staff have any questions, please do not hesitate to contact us. Thank you for your consideration of the foregoing.

Very truly yours,



Christopher B. Fisher

cc: Carmen Chapman, AT&T Wireless  
Harold Hewett, Bechtel Telecommunications



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

October 18, 2001

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

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

RE: **TS-AT&T-017-010927** - AT&T Wireless PCS LLC request for an order to approve tower sharing at an existing telecommunications facility located at 1214 Farmington Avenue, Bristol, Connecticut.

Dear Attorney Fisher:

At a public meeting held October 17, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. 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 may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated September 26, 2001.

Thank you for your attention and cooperation.

Very truly yours,

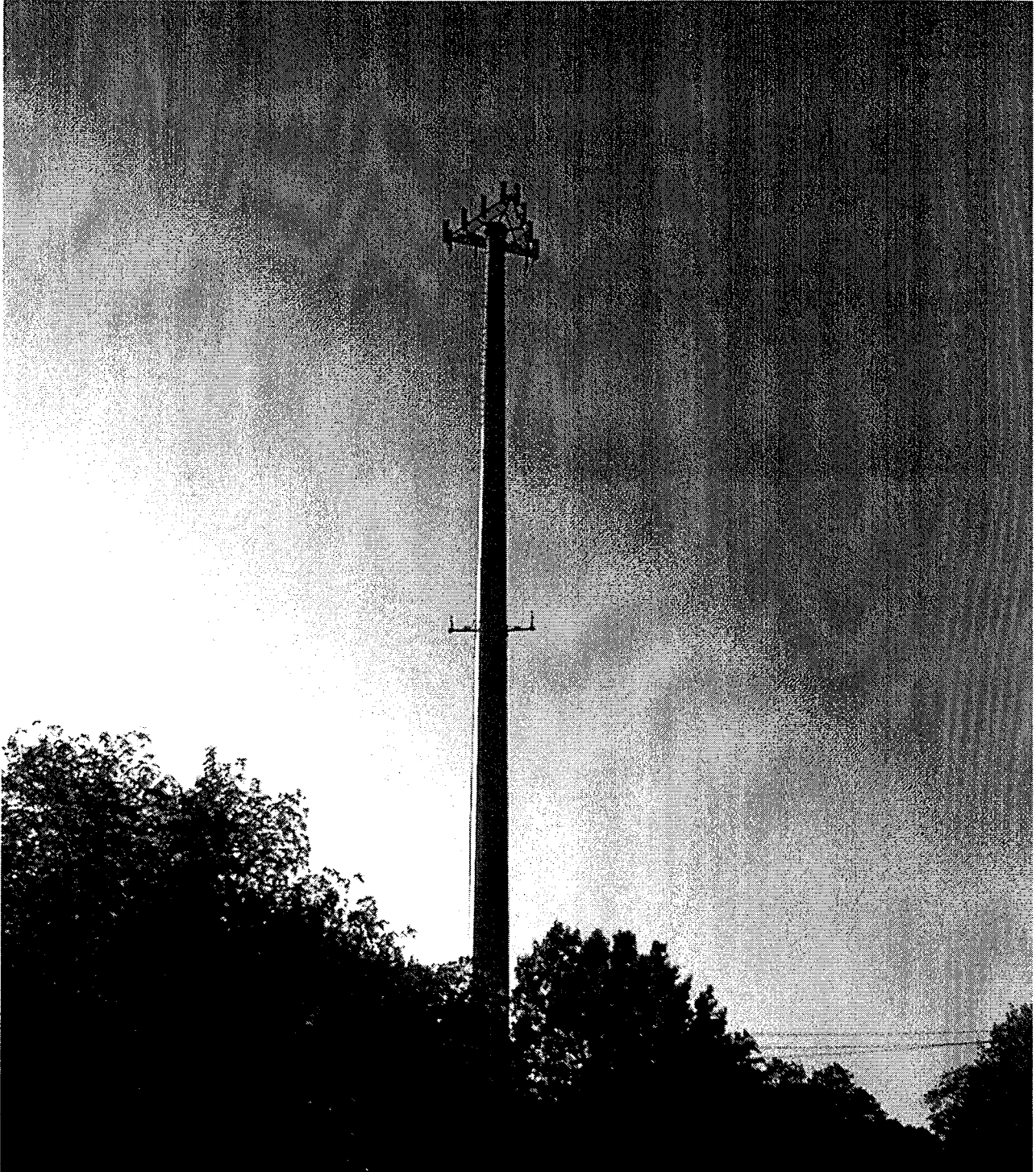


Mortimer A. Gelston  
Chairman

MAG/RKE/laf

c: Honorable Frank N. Nicastro, Sr., Mayor, City of Bristol  
Alan Weiner, Planner/Dev. Coordinator, City of Bristol  
Ronald C. Clark, Nextel Communications

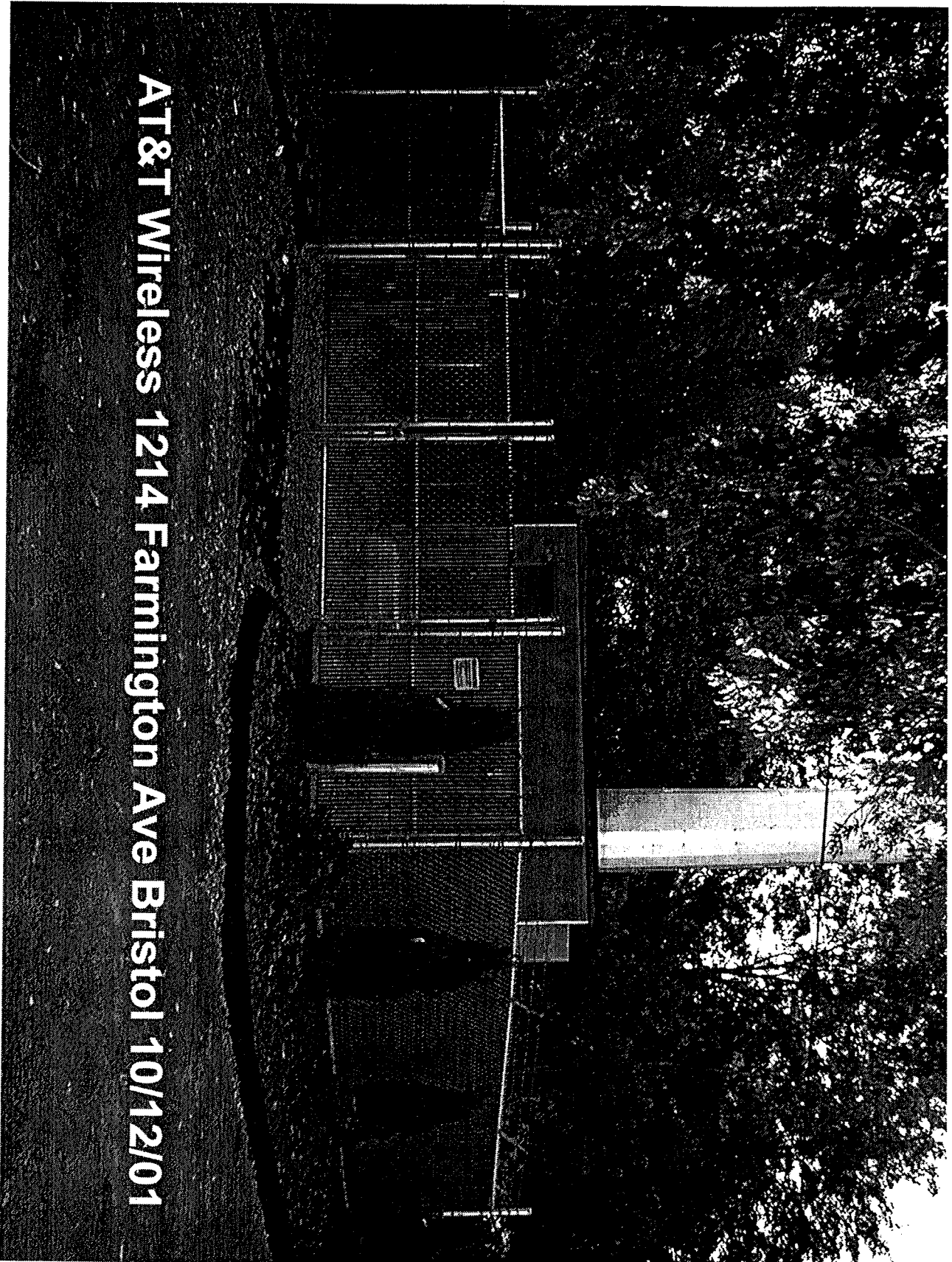




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