

Daniel F. Caruso Chairman

March 17, 2008

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@ct.gov Internet: ct.gov/csc

Steven L. Levine Real Estate Consultant New Cingular Wireless PCS, LLC 500 Enterprise Drive Rocky Hill, CT 06067-3900

RE: **EM-CING-049-080206** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at Town Farm Road, Enfield, Connecticut.

Dear Mr. Levine

At a public meeting held on February 28, 2008, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, 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 February 6, 2008, including the placement of all necessary equipment and shelters within the tower compound. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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.

Daniel F. Caruso

Chairman

DFC/MP

e: Honorable Patrick L. Tallarita, Mayor, Town of Enfield
 Matthew W. Coppler, Town Manager, Town of Enfield
 Jose Giner, Director of Planning and Community Development, Town of Enfield
 American Tower Corporation

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STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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February 7, 2008

The Honorable Patrick L. Tallarita Mayor Town of Enfield 820 Enfield Street Enfield, CT 06082

RE: **EM-CING-049-080206** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at Town Farm Road, Enfield, Connecticut.

Dear Mayor Tallarita:

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 February 28, 2008, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the Council by February 27, 2008.

Thank you for your cooperation and consideration.

. Derek Phelps

Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Jose Giner, Director of Planning and Community Development, Town of Enfield Matthew W. Coppler



EM-CING-049-080206





New Cingular Wireless PCS, LLC 500 Enterprise Drive Rocky Hill, Connecticut 06067-3900 Phone: (860) 513-7636 Fax: (860) 513-7190

Steven L. Levine Real Estate Consultant

ORIGINAL

HAND DELIVERED

February 6, 2008



CONNECTICUT SITING COUNCIL

Honorable Daniel F. Caruso, Chairman, and Members of the Connecticut Siting Council Connecticut Siting Council 10 Franklin Square New Britain, Connecticut 06051

> Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at Town Farm Road, Enfield (owner, American Tower)

Dear Chairman Caruso and Members of the Council:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("Cingular") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile (GSM) communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Cingular's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility

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will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

- 1. The height of the overall structure will be unaffected. Modifications to the existing site include all or some of the following as necessary to bring the site into conformance with the plan:
 - Replacement of existing panel antennas with new antennas of similar size, shape, and weight, or, installation of additional antennas of similar size, shape, and weight.
 - Installation of small tower mount amplifiers ("TMA's") and/or diplexers to the platform on which the panel antennas are mounted to enhance signal reception.
 - Installation of additional or larger coaxial cables as required.
 - Installation of an additional equipment cabinet in existing shelters, or on existing or enlarged concrete pads.

None of these modifications will extend the height of the tower.

- 2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.
- 3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
- 4. Radio frequency power density may increase due to use of one GSM channel for UMTS transmissions. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,

Steven L. Levine

Real Estate Consultant

Attachments

CINGULAR WIRELESS Equipment Modification

Town Farm Road, Enfield, CT

Site Number 1021

Docket 51.1; Exempt Mods 4/22/89, 7/15/92, and 10/7/02

Tower Owner/Manager: American Tower

Equipment configuration: Monopole

Current and/or approved: Nine CSS DUO1417 antennas @ 154 ft c.l.

Nine runs 7/8 inch coax

Six TMA's / three diplexers @ 154 ft

Planned Modifications: Remove nine existing antennas

Install 6 Powerwave 7770 antennas or equivalent at 154 ft c.l.

Remove three diplexers Install six new diplexers Remove existing coax

Install twelve runs 1 5/8 inch coax

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 14.0 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 12.7 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm²)	Standard Limits (mW/cm²)	Percent of Limit
Other Users *							7.05
Cingular TDMA *	154	880 - 894	16	100	0.0243	0.5867	4.13
Cingular GSM *	154	880 - 894	2	296	0.0090	0.5867	1.53
Cingular GSM *	154	1900 Band	2	427	0.0129	1.0000	1.29
Total							14.0%

^{*} Per CSC Records

Proposed

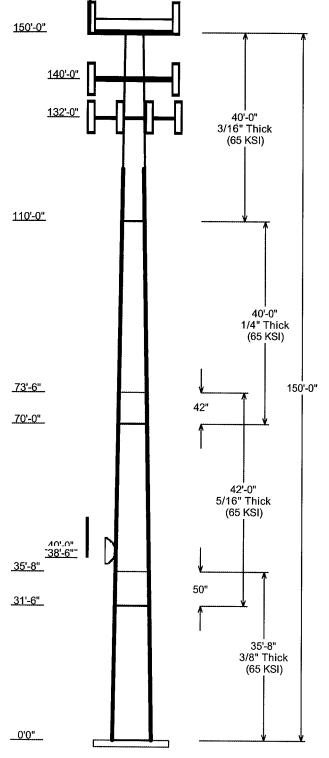
Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm²)	Standard Limits (mW/cm²)	Percent of Limit
Other Users *							7.05
Cingular GSM	154	880 - 894	4	296	0.0180	0.5867	3.06
Cingular GSM	154	1900 Band	2	427	0.0129	1.0000	1.29
Cingular UMTS	154	880 - 894	1	500	0.0076	0.5867	1.29
ilonia en							12/11/6

^{*} Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications. (Am. Tower, 1/28/08)

Copyright Semaan Engineering Solutions, Inc



Job Information

Pole: 302489

Code: TIA/EIA-222 Rev F

Description: 150' ITT Meyer Type "B" Monopole

Client: ATT Mobility
Location: Enfd - Enfield, CT

Shape: 12 Sides

Base Elev (ft): 0.00

Height: 150.00 (ft)

Taper: 0.156700(in/ft)

	Sections Properties							
Shaft Section	Length (ft)		eter (in) ss Flats Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	35.667	31.79	37.38	0.375		0.000	0.156700	65
2	42.000	26.48	33.06	0.313	Slip Joint	50.000	0.156700	65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	0.156700	65
4	40.000	15.00	21.26	0.188	Butt Joint	0.000	0.156700	65

	Discrete Appurtenance					
Attach Elev (ft)	Force Elev (ft)	Qty	Description			
150.000	154.000	6	Powerwave LGP-13519			
150.000	154.000	6	Powerwave 7770-2			
150.000	159.710	1	Decibel DB809-Y			
150.000	153.000	1	Platform w/ Handrails			
140.000	140.000	6	EMS RR90-17-02D			
140.000	140.000	1	Low Profile Platform			
132.000	132.000	3	Round T-Arm			
132.000	132.000	6	Andrew PCS1900			
132.000	132.000	6	Antel LPA-185080/12CF			
132.000	132.000	6	Antel LPA-80080/6CF			
40.000	40.000	1	Channel Master 1.2 M Dish			
38.500	38.750	1	GPS			

	Linear Appurtenance						
Elev	Elev (ft) Exposed						
From	То	Description	To Wind				
110.0	140.0	1 5/8" Coax	Yes				
0.000	150.0	1 5/8" Coax	No				
0.000	150.0	1 5/8" Coax	No				
0.000	40.000	RG6	No				
0.000	110.0	1 5/8" Coax	No				
0.000	125.0	#20 Dywidag bars	Yes				
0.000	130.0	1 5/8" Coax	No				

Load Cases					
No Ice	80.00 mph Wind with No Ice				
Ice	69.28 mph Wind with Ice				
Twist/Sway	50.00 mph Wind with No Ice				

Reactions						
Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)			
No Ice	2498.59	25.40	30.49			
Ice	1870.10	17.17	36.21			
Twist/Sway	977.68	9.92	30.54			

Dish Deflections					
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)		
Twist/Sway	40.00	3.615	0.860		



AMERICAN TOWER"

ATC Site Number & Name 302489, Enfd - Enfield Engineering ID: 40464614					
302489, Enfd - Enfield	Engineering ID: 40464614				
820 Enfield Street					
Enfield, Connecticut 06082, Ha	rtford County				
150 ft ITT Meyer Monopole					
TIA/EIA-222-F	2003 IBC w/ 2005 Connecticut				
80 mph w/0" radial ice	Supplements				
69 mph w/½" radial ice	90 mph w/0" radial ice				
	1021, Enfield Town Farm rd. 820 Enfield Street Enfield, Connecticut 06082, Ha 150 ft ITT Meyer Monopole TIA/EIA-222-F 80 mph w/0" radial ice				

Table 1: Existing Antenna Configuration

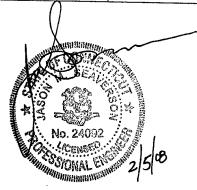
		- STOPPING CONTINUENT			
EL (Ft)	QTY	ANTENNAS	MOUNT	COAX(In)	CARRIER
162	1	Decibel DB809-Y	Platform w/ Handrails	(1) 1 5/8	US Mobility
140	6	EMS RR901702DP	Low Profile Platform	(12) 1 5/8	T-Mobile
	6	Antel LPA-80080/6CF			2 27100110
132	6	Antel LPA-185080-	T-Arm	(12) 7/8	Verizon
	6	Andrew PCS1900			VOIZOII
_40	1	Channel Master 1.2 Meter	Flush	(1) RG6	US Mobility

Table 2: Proposed Antenna Configuration

EL (Ft)	OTY	ANTENNAS	MOUNT	COATZ	
		······································	MOUNT	COAX(In)	CARRIER
	6	Powerwave 7770-2		(12) 1 5/8	
154	6	Powerwave LGP 13519	Platform w/ Handrails		
	6	ADC 850/1900			ATT Mobility
38.5	1	GPS			

Coax to be installed inside monopole.

The subject tower and foundation are adequate to support the above stated loads in conformance with specified requirements.³



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Connecticut.

¹The existing and proposed loads of *Table 1* and *Table 2* are compared to the tower's current design capacity or previous analysis.

²The design wind criteria are compared to the current code requirements.

³The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in the above tables.





New Cingular Wireless PCS, LLC

500 Enterprise Drive

Rocky Hill, Connecticut 06067-3900

Phone: (860) 513-7636 Fax: (860) 513-7190

Steven L. Levine Real Estate Consultant

February 6, 2008

Mr. Matthew Coppler, Town Manager Town of Enfield Town Hall 820 Enfield St. Enfield, CT 06082-2997

Re: Telecommunications Facility - Town Farm Road, Enfield

Dear Mr. Coppler:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("Cingular") will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular's proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely

Steven L. Levine Real Estate Consultant

Enclosure