

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

Daniel F. Caruso
Chairman

June 21, 2009

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

RE: **EM-CING-031-090521** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at Mohawk Mountain, Cornwall, Connecticut.

Dear Mr. Levine:

The Connecticut Siting Council (Council) hereby acknowledges 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 May 21, 2009, 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.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Gordon M. Ridgway, First Selectman, Town of Cornwall
Karl Nilsen, Zoning Enforcement Officer, Town of Cornwall
American Tower



EM-CING-031-090521

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

ORIGINAL

Steven L. Levine
Real Estate Consultant

HAND DELIVERED

May 21, 2009

RECEIVED
MAY 21 2009

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 tele-communications facility located at Mohawk Mountain, Cornwall (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 ("AT&T") 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 AT&T'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

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.
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 or more 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, New 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

**NEW CINGULAR WIRELESS
Equipment Modification**

Mohawk Mountain, Cornwall
Site Number 1025
EM's approved 3/95, 6/94, 11/02, and 12/04

Tower Owner/Manager: National Grid

Equipment Configuration: Self-Supporting Lattice Tower

Current and/or Approved: Nine CSS panel antennas @ 65 ft AGL
Six TMA's and six diplexers @ 65 ft
Nine runs 1¼ inch coax cable
Equipment shelter

Planned Modifications: Remove existing antennas, TMA's, and diplexers
Install six Powerwave 7770 antennas (or equivalent) @ 65 ft
Install six TMA's and six diplexers @ 65 ft
Install three additional runs 1¼ 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 125.1 % 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 117.7 % of the standard. Per CSC records, however, a maximum field measurement of 12.5% MPE was obtained for the latest exempt modification filing, EM-VER-055-081015 (including the predicted contribution from Verizon's proposed transmissions).

Since the calculated "Existing" power density corresponded to on-site field measurements of only 12.5 % MPE, it is reasonable to conclude that a field measurement corresponding to the somewhat lower "Proposed" figure would also be on the same order of magnitude, i.e., approximately 12.5 % MPE.

Existing – Per FCC OET Bulletin No. 65 Model

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							86.00
AT&T TDMA *	65	880 - 894	16	100	0.1362	0.5867	23.21
AT&T GSM *	65	1900 Band	2	427	0.0727	1.0000	7.27
AT&T GSM *	65	880 - 894	2	296	0.0504	0.5867	8.59
Total							125.1%

* Per CSC records

Proposed – Per FCC OET Bulletin No. 65 Model

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 *							86.00
AT&T UMTS	65	880 - 894	1	500	0.0426	0.5867	7.25
AT&T GSM *	65	1900 Band	2	427	0.0727	1.0000	7.27
AT&T GSM *	65	880 - 894	4	296	0.1008	0.5867	17.17
Total							117.7%

* Per CSC records

Structural information:

The attached structural analysis demonstrates that the tower has sufficient structural capacity to accommodate the proposed equipment modifications. (American Tower, 5/12/09)



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

May 21, 2009

Honorable Gordon M. Ridgway
1st Selectman, Town of Cornwall
Town Office 26 Pine Street
Cornwall, CT 06753

Re: Telecommunications Facility – Mohawk Mountain Road

Dear Mr. Ridgway:

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 (“AT&T”) 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 AT&T’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 AT&T’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



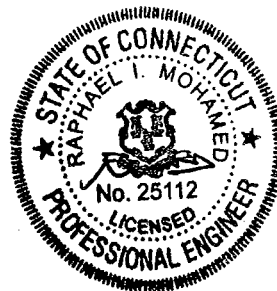
AMERICAN TOWER

Structural Analysis Report

Structure : 65 ft Self Supported Tower
ATC Site Name : Cornwall CT, CT
ATC Site Number : 88009
Proposed Carrier : AT&T Mobility
Carrier Site Name : Cornwall
Carrier Site Number : 1025
County : Litchfield
Engineering Number : 43367921
Date : May 12, 2009
Usage : 37% Legs, 63% Diagonals,
41% Horizontals

Submitted by:
Christopher L. Jolly, E.I.
Design Engineer

American Tower Engineering Services
400 Regency Forest Drive
Cary, NC 27518
Phone: 919-468-0112



5/13/09

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 65 ft Self Supported Tower located at the end of Mohawk Mountain Road, Cornwall, Connecticut, 06759, Litchfield County (ATC Site No. 88009). The tower dimensions and member sizes are based on a previous structural by CSEI (ATC Eng. No. 26472221, dated September 19, 2006).

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition.

Basic Wind Speed: 80 mph (Fastest Mile)
 Radial Ice: 69 mph (Fastest Mile) w/ 1/2" ice
 Code: TIA/EIA-222-F / 2006 IBC Section 1609.1.1, Exception (4) and Section 3108.4 / 2005 & 2008 CT Supplement

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
75.0	3	Decibel ASP-950	Platform w/ Pipe Extensions on top of Fire Warden Cab	(3) 7/8"	Sprint Nextel
72.0	1	8' Yagi		(1) 7/8"	State of CT
	1	10' Dipole		(1) 7/8"	
70.0	12	EMS RR65-19-02DP		(12) 1 1/4"	Sprint Nextel
	6	14" x 9" TTA	--		
48.0	1	Andrew P3F-52-N7A	Dish	(1) 1 5/8"	Verizon Wireless
	6	Antel LPA-80063/6CF	Platform w/ Pipe Extensions	(6) 1 5/8"	
	6	Antel LPA-185063/12CF		(6) 1 5/8"	
	3	TTA		--	Alltel
	3	Decibel 776QNB120EXM		(12) 7/8"	
37.5	--	--	Platform	--	--

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
65.0	6	Allgon 7770.00	Platform w/ Pipe Extensions on top of Fire Warden Cab	(12) 1 1/4" (3) 1/2"	AT&T Mobility
	6	Powerwave LGP21902			
	6	Powerwave LGP21401			
	6	Powerwave 7020.00 Dual Band			

Stack proposed coax in same location as existing.

Results

The maximum structure usage is: 63%

Leg Forces	Original Design Reactions	Current Analysis Reactions	% Of Design
Uplift (Kips)	60.0	43.3	72
Axial (Kips)	113.9	60.7	53

The structure base reactions resulting from this analysis are acceptable when compared to the reactions shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Conclusion

Based on the analysis results, the structure meets the requirements per TIA/EIA-222-F and 2006 IBC standards. The tower and foundation can support the existing and proposed antennas with the TX line distribution as described in this report.

If you have any questions or require additional information, please call 919-465-6545.

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

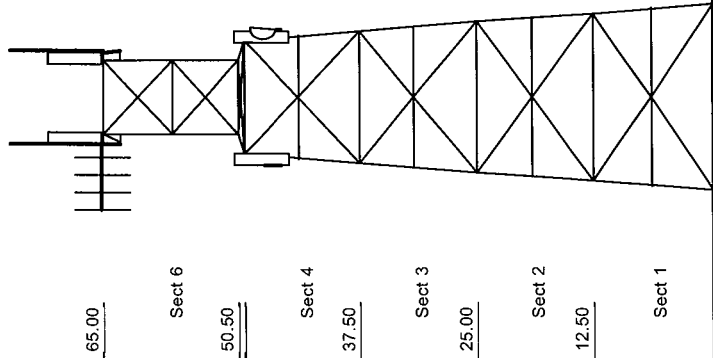
Copyright Semaan Engineering Solutions, Inc
 Loads: 80 mph no ice
 69 mph w/ 1/2" radial ice

Job Information		
Tower : 88009	Location : Cornwall CT, CT	Base Width : 19.72 ft
Code: TIA/EIA-222 Rev F	Shape : Square	Top Width : 8.00 ft
Client: AT&T Mobility		

Sections Properties			
Section	Leg Members	Diagonal Members	Horizontal Members
1 - 2	SAE 33ksi 6X6X0.625	SAU 36ksi 3X4X0.25	DAL 36ksi 3X2.5X0.25
3	SAE 33ksi 6X6X0.5	SAU 36ksi 3.5X3X0.25	DAL 36ksi 3.5X3X0.3125
4	SAE 33ksi 6X6X0.5	SAE 36ksi 3.5X3.5X0.25	DAL 36ksi 3.5X3X0.3125
5	SAE 33ksi 6X6X0.5	SAE 36ksi 5X5X0.25	SAE 36ksi 5X5X0.25
6	SAE 33ksi 5X5X0.5	SAE 36ksi 3X3X0.25	SAE 36ksi 3.5X3.5X0.25

Discrete Appurtenance			
Elev (ft)	Type	Qty	Description
65.00		6	Powerwave 7020.00 Dual Band RE
65.00		6	Powerwave LGP21401
65.00	Panel	6	Powerwave LGP21902
65.00		6	Allison 7770.00
65.00	Panel	6	14' x 9" TTA
65.00	Panel	12	EMS RR65-19-02DP
65.00	Whip	1	10' Dipole
65.00	Yagi	1	8' Yagi
65.00	Whio	3	Decibel ASP-950
65.00	Panel	1	Fire Warden Cab
50.00	Platform	1	Large Flat Platform
48.00	Panel	3	Decibel 776QNB120EXM
48.00	Panel	3	TTA
48.00	Panel	6	Antel LPA-185063/12CF
48.00	Panel	6	Antel LPA-80063/6CF
48.00	Dish	1	Andrew P3F-52-N7A
37.50	Platform	1	Platform

Linear Appurtenance			
Elev (ft)	From	To	Qty Description
0.000	65.000	1	Wave Guide
0.000	65.000	1	Climbing Ladder
0.000	65.000	2	7/8" Coax
0.000	65.000	3	7/8" Coax
0.000	65.000	12	1 5/8" Coax
0.000	65.000	12	1 1/4" Coax
0.000	48.000	12	7/8" Coax
0.000	48.000	3	1/2" Coax
0.000	48.000	12	1 5/8" Coax
0.000	48.000	1	1 5/8" Coax



Uplift 43.33 k Moment 1,414.85 ft-k
 Vert 60.67 k Total Down 29.64 k
 Horiz 13.15 k Total Shear 31.60 k