

EM-CING-001-090114



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

ORIGINAL

Steven L. Levine
Real Estate Consultant

HAND DELIVERED

January 14, 2009

RECEIVED
JAN 14 2009

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

CONNECTICUT
SITING COUNCIL

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 104 Bunker Hill Road (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**

104 Bunker Hill Road, Andover
Site Number 1122
Exempt Modifications approved 3/01 and 8/02

Tower Owner/Manager: American Tower

Equipment Configuration: Monopole

Current and/or Approved: Nine CSS DUO-1417-8686 panel antennas @ 137 ft AGL
Six TMA's and three diplexers @ 137 ft
Nine runs 1 ¼ inch coax cable
Equipment Shelter

Planned Modifications: Remove all existing antennas, TMA's, and diplexers
Install six Powerwave 7770 antennas (or equivalent) @ 137 ft
Install six TMA's and six diplexers @ 137 ft
Install three additional lines 1 ¼ 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 23.4 % 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 21.8 % of the standard.

Existing

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 *							14.62
AT&T TDMA *	137	880 - 894	16	100	0.0307	0.5867	5.22
AT&T GSM *	137	1900 Band	2	427	0.0164	1.0000	1.64
AT&T GSM *	137	880 - 894	2	296	0.0113	0.5867	1.93
Total							23.4%

* Per CSC records

Proposed

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 *							14.62
AT&T UMTS	137	880 - 894	1	500	0.0096	0.5867	1.63
AT&T GSM	137	1900 Band	2	427	0.0164	1.0000	1.64
AT&T GSM	137	880 - 894	4	296	0.0227	0.5867	3.87
Total							21.8%

* Per CSC records

Structural information:

The attached structural analysis demonstrates that the tower has adequate structural capacity to accommodate the proposed modifications. (American Tower, 11/26/08)



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January 14, 2009

Honorable Robert F. Burbank
1st Selectman, Town of Andover
Town Office Bldg. 17 School Rd.
Andover, Connecticut 06232
Re: Telecommunications Facility – 104 Bunker Hill Road

Dear Mr. Burbank:

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 : 178 ft Summit Monopole
ATC Site Name : Andover Bunker Hill Road, CT
ATC Site Number : 302472
Proposed Carrier : AT&T Mobility
Carrier Site Name : Andover – Bunker Hill #1122
Carrier Site Number : N/A
County : Tolland
Engineering Number : 42685521
Date : November 24, 2008
Usage : 82%
Portholes Required : No

Submitted by:
Michael Davenport, E.I.
Design Engineer

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



11/26/08

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 178 ft. Summit Monopole located at 104 Bunker Hill Rd., Andover, CT 06232, Tolland County (ATC Site No. 302472). The tower was originally designed and manufactured by Summit (Paul J. Ford Drawing No. 29200-028, dated January 14, 2000).

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: 85.0 mph (Fastest Mile)
 Radial Ice: 73.6 mph (Fastest Mile) w/ 1/2" ice
 Code: TIA/EIA-222-F / 2003 IBC Criteria per Section 1609.1.1, Exception (5) and Section 3108.4 / 2005 CT Supplements & 2008 CT Amendments

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
180.0	3	72" x 12" Panels	Low Profile Platform	(12) 1 5/8"	Sprint Nextel
	9	Allgon 7120.16.05.00			
168.0	6	Decibel DB980H90A-KL	Low Profile Platform	(6) 1 5/8"	
160.0	1	GPS	Flush	(1) 1/2"	Verizon
158.0	12	48" x 12" Panels	Low Profile Platform	(12) 1 5/8"	
148.0	2	EMS RR90-17-02DP	Low Profile Platform	(12) 1 5/8"	T-Mobile
	4	Allgon 7250.02			

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
137.0	6	Powerwave 7770.00	Low Profile Platform	(12) 1 1/4"	AT&T Mobility
	6	Powerwave LGP21401			
	6	Powerwave LGP21903			

Install proposed coax inside monopole.

Results

The maximum structure usage is: 82%

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	4,675.0	3,879.0	83
Shear (kips)	35.5	30.2	85

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 2003 IBC with 2005 CT Supplement and 2008 Amendment 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 919-466-5147.

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.

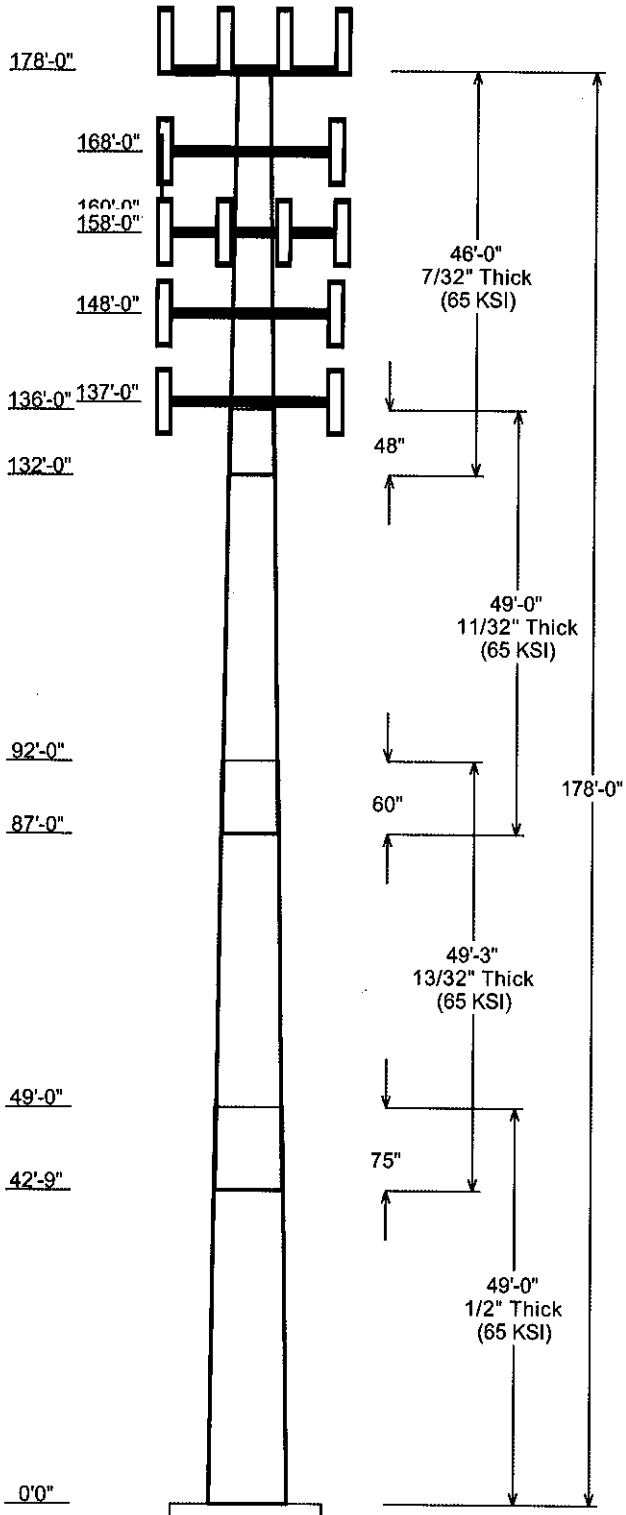
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

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.

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Job Information	
Pole: 302472	Code: TIA/EIA-222 Rev F
Description: 178' Summit Monopole	
Client: AT&T Mobility	
Location: Andover Bunker Hill Road, CT	
Shape: 18 Sides	Base Elev (ft): 0.00
Height: 178.00 (ft)	Taper: 0.207008(in/ft)

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)	
		Across Top	Flats Bottom					
1	49.000	46.76	56.91	0.500	0.000	0.207008	65	
2	49.250	38.67	48.87	0.406 Slip Joint	75.000	0.207008	65	
3	49.000	30.25	40.40	0.344 Slip Joint	60.000	0.207008	65	
4	46.000	22.00	31.52	0.219 Slip Joint	48.000	0.207008	65	

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
178.000	180.000	3	72" x 12" Panels	
178.000	180.000	9	Allgon 7120.16.05.00	
178.000	178.000	1	Low Profile Platform	
168.000	168.000	6	Decibel DB980H90A-KL	
168.000	168.000	1	Low Profile Platform	
160.000	160.500	1	GPS	
158.000	158.000	1	Low Profile Platform	
158.000	158.000	12	48" x 12" Panels	
148.000	148.000	1	Low Profile Platform	
148.000	148.000	2	EMS RR90-17-02DP	
148.000	148.000	4	Allgon 7250.02	
137.000	137.000	6	Powerwave 7770.00	
137.000	137.000	6	Powerwave LGP21401	
137.000	137.000	6	Powerwave LGP21903	
137.000	137.000	1	Low Profile Platform	

Linear Appurtenance				
Elev (ft) From	To	Description	Exposed To Wind	
0.000	137.0	1 1/4" Coax	No	
0.000	148.0	1 5/8 Coax	No	
0.000	158.0	1 5/8 Coax	No	
0.000	160.0	1/2" Coax	No	
0.000	168.0	1 5/8 Coax	No	
0.000	178.0	1 5/8 Coax	No	

Load Cases	
No Ice	85.00 mph Wind with No Ice
Ice	73.61 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	3879.02	30.24	47.41
Ice	3280.84	24.87	54.16
Twist/Sway	1344.06	10.46	47.45

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)