

Daniel F. Caruso  
Chairman

# 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](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

August 7, 2007

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

RE: **EM-CING-002-044-131-164-164-070716** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 401 Wakelee Avenue, Ansonia; 259 Commerce Street, East Haven; 626 Spring Street, Southington; 99 Day Hill Road, Windsor; and 1170 Matianuck Avenue, Windsor, Connecticut.

Dear Mr. Levine:

At a public meeting held on July 26, 2007, 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.

The proposed modifications are to be implemented as specified here and in your notice dated July 13, 2007, including the placement of all necessary equipment and shelters within the tower compounds. 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 existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities 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. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to any of 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,



Daniel F. Caruso  
Chairman

DFC/MP/laf

- c: The Honorable James T. DellaVolpe, Mayor, City of Ansonia
- Peter Crabtree, Zoning Enforcement Officer, City of Ansonia
- The Honorable Joseph Maturo, Jr., Mayor, Town of East Haven
- George Mingione, Zoning Enforcement Officer, Town of East Haven
- The Honorable John Barry, Town Council Chairman, Town of Southington
- John Weichsel, Town Manager, Town of Southington
- Mary Hughes, Town Planner, Town of Southington
- The Honorable Donald Trinks, Mayor, Town of Windsor
- R. Leon Churchill, Jr., Town Manager, Town of Windsor
- Mario Zavarella, Town Planner, Town of Windsor
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Thomas J. Regan, Esq., Brown Rudnick Berlack Israels, LLP
- Kenneth C. Baldwin, Esq., Robinson & Cole LLP
- Christine Farrell, T-Mobile
- Jeffrey W. Barbadora, Crown Atlantic Company LLC
- American Tower Corporation
- Stephen Viglione



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

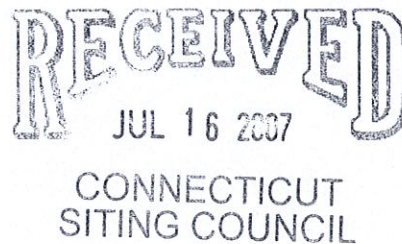
Steven L. Levine  
Real Estate Consultant

EM-CING-002-044-131-164-164-070716

HAND DELIVERED

July 13, 2007

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 5 existing tele-communications facilities located in Ansonia, East Haven, Southington, and Windsor (2)

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 each of the municipalities in which an affected cell site is locate.

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 are summary sheets detailing the planned changes, including power density calculations reflecting the change in the effect of Cingular's operations at each affected site. Also included is documentation of the structural sufficiency of each tower to accommodate the revised antenna configuration.

The changes to the facilities do not constitute modifications as defined in Connecticut General

Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facilities will not be significantly changed or altered. Rather, the planned changes to the facilities fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. In each instance, the height of the overall structure will be unaffected. Modifications to the existing sites include all or some of the following as necessary to bring each 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 noted in the following 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 sites 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**

401 Wakelee Avenue, Ansonia, CT  
Site Number 2091  
Exempt Modifications 3/28/01 and 8/1/02

**Tower Owner/Manager:** American Tower

**Equipment configuration:** Self-Supporting Lattice Tower

**Current and/or approved:** Nine CSS DUO1417 antennas @ 167 ft c.l.  
Nine runs 1 ¼ inch coax  
Six TMA's @ 167 ft

**Planned Modifications:** Remove three existing antennas  
Install three Powerwave 7770 antennas @ 167 ft c.l.  
Install three runs 1 ¼ inch coax (total of 12)  
Install three diplexers @ 167 ft

**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 19.2 % 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 20.7 %.

**Existing**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							13.28
Cingular TDMA *	167	880 - 894	16	100	0.0206	0.5866	3.52
Cingular GSM *	167	880 - 894	2	296	0.0076	0.5867	1.30
Cingular GSM *	167	1900 Band	2	427	0.0110	1.0000	1.10
<b>Total</b>							<b>19.2%</b>

\* Per CSC records.

## Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							13.28
Cingular GSM	167	880 - 894	8	296	0.0305	0.5867	5.20
Cingular GSM	167	1900 Band	2	427	0.0110	1.0000	1.10
Cingular UMTS	167	880 - 894	1	500	0.0064	0.5867	1.10
<b>Total</b>							<b>20.7%</b>

\* Per CSC records.

### Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (American Tower, dated 6/20/07)



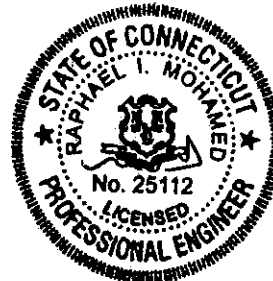
**AMERICAN TOWER™**  
CORPORATION

Level 1 Structural Evaluation <sup>1</sup>		
ATC Site Number & Name	302470, Ansonia Wakelee	Engineering ID: 40463913
Carrier Site Number & Name	2091, Ansonia	
Site Address	401 Wakelee Avenue Ansonia, Connecticut 06401, New Haven County	
Tower Description	196 ft Rohn Self Support Tower	
Standards & Codes <sup>2</sup>	ANSI/TIA/EIA-222-F (1996) 85 mph w/ 0" radial ice 74 mph w/ 1/2" radial ice	2003 International Building Code 115 mph w/ 0" radial ice

Table 1: Existing and Proposed Antenna Configuration				
HEIGHT (ft)	ANTENNA	CARRIER	COAX	STATUS
194	(9) 48" x 12" Panels (3) 72" x 12" Panels on Sector Frame Mounts	Nextel	(12) 1-5/8"	Existing
188	(6) Decibel DB950F65E-M on Sector Frame Mounts	Sprint	(6) 1-5/8"	Existing
178	(6) Decibel 948F85T2E-M (6) Decibel DB844H90 on Sector Frame Mounts	Verizon	(12) 1-5/8"	Existing
167	(6) CSS DUO1417-8686 (6) ADC TMDD1900 on Sector Frame Mounts	Cingular	(6) 1-1/4"	Existing
167	(3) Powerwave 7770-1 (3) Powerwave LGP13519 on Sector Frame Mounts	Cingular	(6) 1-1/4"	Proposed
148	(6) EMS 5' Panels on Sector Frame Mounts	T-Mobile	(12) 1-5/8"	Existing
124	(1) GPS Antenna on Side Arm Mount	Verizon	(1) 1/2"	Existing
104	(2) GPS Antenna on Side Arm Mounts	Verizon	(2) 1/2"	Existing
82	(1) 9.5' Ornni on Stand off Mount	Ansonia Fire Dept.	(1) 1/2"	Existing
76	(1) GPS Antenna on Side Arm Mount	Sprint	(1) 1/2"	Existing

<sup>3</sup> Coax to be installed on an empty tower face.

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



6/20/07

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.

<sup>1</sup> The existing and proposed loads of Table 1 are compared to the tower's current design capacity or previous analysis.

<sup>2</sup> The design wind criteria are compared to the current code requirements.

<sup>3</sup> The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.



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

July 13, 2007

Honorable James T. Della Volpe, Mayor  
City of Ansonia  
City Hall 253 Main St.  
Ansonia, CT 06401-1866

Re: Telecommunications Facility – 401 Wakelee Avenue, Ansonia

Dear Mayor Della Volpe:

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



**CINGULAR WIRELESS  
Equipment Modification**

259 Commerce Street, East Haven, CT  
Site Number 5048  
Former AT&T site  
Petition 634 approved 7/8/03

**Tower Owner/Manager:** Stephen Viglione

**Equipment configuration:** Monopole

**Current and/or approved:** Three Allgon 7250 antennas @ 57 ft c.l. (approved for 6)  
Six runs 7/8 inch coax

**Planned Modifications:** Remove existing antennas  
Install three Powerwave 7770 antennas @ 57 ft  
Install six TMA's @ 57 ft c.l.  
Remove one outdoor cabinet  
Install two additional outdoor cabinets on existing pad

**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 35.7 % 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 43.5 % of the standard.

**Existing**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							24.61
Cingular GSM *	57	1900 Band	4	250	0.1107	1.0000	11.07
<b>Total</b>							<b>35.7%</b>

\* Per CSC records.

### Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							24.61
Cingular GSM	57	1900 Band	2	427	0.0945	1.0000	9.45
Cingular UMTS	57	880 - 894	1	500	0.0553	0.5867	9.43
							43.5%

\* Per CSC records.

#### Structural information:

The attached structural analysis performed for T-Mobile earlier this year demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications. (FWT, Inc., dated 1/16/07)

The 1/07 structural analysis was performed with a loading for Cingular of 12 antennas, 12 TMA's, and a 10' mounting platform. Following the modifications, Cingular will have 3 antennas and 6 TMA's on the mounting platform. This represents far less loading than the 1/07 analysis allocated to Cingular, i.e. 3 of 12 allocated antennas, and 6 of 12 allocated TMA's.

For the reasons given above, Cingular respectfully submits that the 1/07 structural analysis herein provided remains valid for the proposed loading, and that a new analysis is not required for approval of the proposed modifications.



January 16, 2007

Bryan Bakis, P.E.  
T-Mobile  
50 Vision Blvd.  
E. Providence, RI 02914

Ref.: 58-Ft Monopole at CT11623B, CT  
(Bechtel Site: East Heaven, CT)  
Job # J060608002, design # M06-0650, R1

Dear Bryan Bakis:

The above mentioned monopole was previously designed in 2002, under job no: J030902001. It was designed for a basic wind speed of 85 mph no ice and 73 mph with 1/2" radial ice in accordance with the TIA/EIA-222-F Standard.

A structural analysis was performed using FWT's comprehensive "Monopole Design Program" to investigate the adequacy of the existing 58-ft. monopole to support the proposed loading (see attached profile).

The program models the structure as a cantilevered beam subject to transverse (wind) and axial (dead weight) loads. Deflections and secondary moments are calculated and applied to the pole. In one case a basic wind speed of 90 mph with no ice, and in the second case a basic wind speed of 77 mph wind with 1/2" ice.

The results of the analyses showed that the monopole is adequate to support the proposed loading. The existing *Pad & Pier Foundation* designed by FWT (14'x14' with 5'-0"Ø pier) is found to be capable to support the proposed loading.

Based on the preceding results, it is concluded that the tower is adequate to retain the fastest mile basic wind speed rating of 90 mph (or equivalent to 110-mph 3-second gust wind speed per 2003 International Building Code) for the proposed loading condition.

If you have any questions or if we can be of further assistance, please do not hesitate to contact us.

Submitted by:

FWT, Inc.

Sincerely,

  
Fa Wen Lee, PhD, PE  
Engineering Manager

Reviewed By

William B. Mills, PE  
Director of Engineering



JOB DATA		
Page 1 of 1	Job No.	J060608002
By TWL	Design No.	M06-0850, R1
Chk'd By TW	Date	5/31/2002 1:51:19 PM
Pole 58-FT MONOPOLE	Rev. No. 1	Rev. Date 1/9/2007
Site EAST HEAVEN, CT		
Owner BECHTEL CORPORATION		
Ref. No.		
Standard ALSO MEETS 110-MPH 3-SECOND GUST WIND SPEED PER 2003 IBC/AND ACCORDING TO TIA/EIA-222-F 1996		

△ REV 1: GENERAL REVISION

FOR STRESS ANALYSIS ONLY		
LOAD CASES		
CASE 1 90 MPH WITH NO ICE	DESIGN WIND	
CASE 2 77 MPH WITH 1/2" RADIAL ICE	REDUCED WIND WITH ICE	
CASE 3 50 MPH WITH NO ICE	OPERATIONAL WIND	
* THE WIND SPEEDS LISTED ARE FASTEST-MILE WIND SPEEDS.		

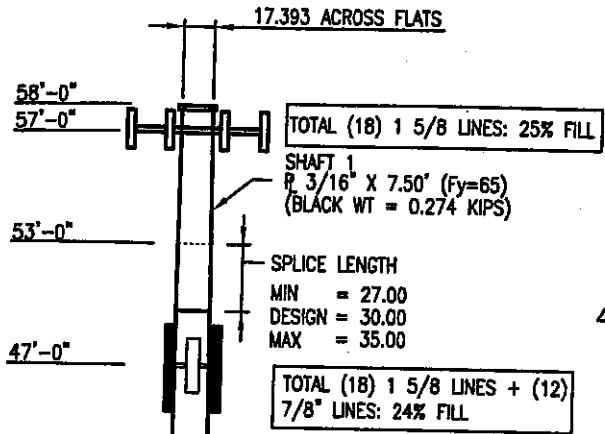
POLE SPECIFICATIONS	
Pole Shape Type:	18-SIDED POLYGON
Taper:	0.224690 IN/FT
Shaft Steel:	ASTM A572 GRADE 65
Base PL Steel:	ASTM A633 GR. E (60 KSI)
Anchor Bolts:	2 1/4" x 7'-0" LONG #18J ASTM A615 GRADE 75
** SHALL MEET CHARPY V-NOTCH TEST: 15 FT.LBS @ -20°F	

ANTENNA LIST		
No.	Elev.	Description
-	TOP	3/4" LIGHTNING ROD
1-3	57.00	(3) 6' X 1' X 2" PANEL ANTENNA (ASSUMED)
4-12	57.00	(9) 6' X 1' X 2" PANEL ANTENNA
13-24	57.00	(12) TMA/DIPLEXER
-	57.00	(1) 10-FT LPS MOUNT (P) W/ SERVICE GRATING
25-27	47.00	(3) APX16PV-16PVL-E PANEL (L=4.4')
28-39	47.00	(12) TMA/DIPLEXER
-	47.00	(3) ANTENNA CLOSE CONTACT MOUNT

E=EXISTING; F=FUTURE; P=PROPOSED  
 STEP BOLTS FULL HEIGHT FROM 9'-6" ABOVE BASE PLATE.  
 ANTENNA FEED LINES RUN INSIDE OF POLE.

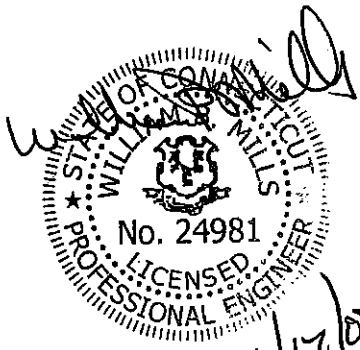
Elevation	90 MPH WIND		50 MPH WIND	
	Lateral Deflection (Inches)	Rotation (sway) (degrees)	Lateral Deflection (Inches)	Rotation (sway) (degrees)
TOP	18.2	2.419	5.6	0.747

SHAFT SECTION DATA					
Shaft Section	Section Length (feet)	Plate Thickness (in.)	Lap Splice (in.)	Diameter Across Flats (inches)	
				@ Top	@ Bottom
1	7.50	0.1875	30.00	17.393	19.078
2	53.00	0.1875		18.141	30.050



- △ CINGULAR E
- CINGULAR F
- CINGULAR F
- CINGULAR F
- T-MOBILE P
- T-MOBILE P
- T-MOBILE P

SHAFT 2  
 R 3/16" X 53.00' (Fy=65)  
 (BLACK WT = 2.566 KIPS)



EXISTING  
 J030902001

0'-0"  
 T/EDN

BASE R 2' X 33.000 SQUARE  
 W/(4) 2.25" ANCHOR BOLTS ON 37.000 B.C.

30.050 ACROSS FLATS

UNFACTORED BASE REACTIONS  
 MOMENT = 389 ft-kips  
 SHEAR = 8.3 kips  
 AXIAL = 7.4 kips



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

July 13, 2007

Honorable Joseph Maturo, Jr., Mayor  
Town Hall 250 Main St.  
East Haven, CT 06512-3004;

Re: Telecommunications Facility – 259 Commerce St., East Haven

Dear Mayor Maturo:

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

**CINGULAR WIRELESS  
Equipment Modification**

626 Spring Street, Southington, CT  
Site Number 5250  
Former AT&T site  
CSC Exempt Modifications 4/12/01, 9/25/02, 3/11/03

**Tower Owner/Manager:** Crown Castle

**Equipment configuration:** Monopole

**Current and/or approved:** Two Allgon 7250 antennas @ 156 ft c.l.  
Eight runs 1 5/8 inch coax

**Planned Modifications:** Remove both existing antennas  
Install two Powerwave 7770 antennas @ 156 ft c.l.  
Install four TMA's @ 156 ft

**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 15.7 % 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 19 % of the standard.

**Existing**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							14.07
Cingular GSM*	158	1900 Band	4	275	0.0158	1.0000	1.58
<b>Total</b>							<b>15.7%</b>

\* Per CSC Records

**Proposed**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							14.07
Cingular GSM	156	1900 Band	4	625	0.0369	1.0000	3.69
Cingular UMTS	156	880 - 894	1	500	0.0074	0.5867	1.26
<b>Total</b>							<b>19.0%</b>

\* Per CSC Records

**Structural information:**

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications. (GDP Assoc., dated 7/10/07)



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

July 13, 2007

John Weichsel, Town Manager  
Town of Southington  
Town Office Bldg., 75 Main Street  
Southington, CT 06489

Re: Telecommunications Facility – 626 Spring Street, Southington

Dear Mr. Weichsel:

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





Date: July 10, 2007

Ben Goodhart  
Crown Castle International  
9105 Monroe Road, Suite 150  
Charlotte, NC 28270  
(704) 321-3845

GPD Associates  
520 South Main St., Suite 2531  
Akron, Ohio 44311  
(330) 572-2226  
[jjohnson@gpdgroup.com](mailto:jjohnson@gpdgroup.com)

**Subject:** Structural Analysis Report

**Carrier Designation** Cingular Co-locate  
Cingular Name: Southington-Florians Pond  
Cingular Number: 5250

**Crown Castle Designation** Crown Castle BU Number: 876334  
Crown Castle Site Name: Southington, Smoron  
Crown Castle JDE Number: 88883

**GPD Associate Designation** GPD Associates Project Number: 2007187.43

**Site Data** 625 Spring Street, Southington, CT 06489  
Latitude 41° 37' 56.86", Longitude 72° 53' 39.28"  
150' Summit Monopole

Dear Mr. Goodhart,

GPD is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the aforementioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 244970, in accordance with application 45825, revision 0. The purpose of the analysis is to determine the suitability of the tower with the proposed extension and with the existing and reserved loading configurations and the addition of the following proposed loading configuration:

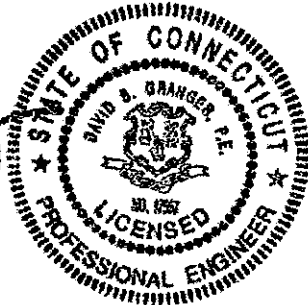
Proposed Elev.156' (2) Powerwave 7770.00 Antennas Pipe Mounted w/ (8) 1-5/8" coax  
(4) Powerwave LGP21401 Diplexers mounted behind the antennas

This analysis has been performed in accordance with the TIA/EIA-222-F standard based upon a wind speed condition of 85 mph and the Connecticut Building Code based on a 100 mph 3 second gust. Based on our analysis we have determined the tower and its foundation are sufficient for the proposed, MLA, existing, and reserved loadings as referenced in Table 1 and Table 2.

We at GPD appreciate the opportunity of providing our continuing professional services to you and Crown Castle International. If you have any questions please do not hesitate to call.

Respectfully submitted,

David B. Granger, P.E.  
Connecticut #: 17557



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## EXECUTIVE SUMMARY

The purpose of this analysis was to verify that the existing structure is capable of carrying the proposed loading configuration as specified by Cingular to Crown Castle International. This report was commissioned by Mr. Ben Goodhart of Crown Castle International.

The existing tower is structurally satisfactory for the proposed loading configuration for a basic wind speed of 100 mph with no radial ice in accordance with TIA/EIA-222-F. The tower rating/capacity is 101.3%.

The foundation reactions, with the proposed loads, were found to be less than the capacity of the existing foundation. Therefore, the foundation is adequate. The foundation rating/capacity is 90.6%.

The existing antennas at 156' shall be removed prior to the installation of the proposed loading and were not considered in the analysis.

## ANALYSIS CRITERIA

The current requirements of TIA/EIA-222-F are for a basic wind speed of 85 mph with ½" of radial ice. A 25% reduction in wind load is allowed when wind and ice are applied simultaneously. TIA/EIA-222-F requires towers within Hartford County, Connecticut be analyzed with an 85 mph wind speed. The Connecticut Building Code requires structures within the vicinity of the tower be analyzed using a 100 mph 3 second gust. In this case, the 85 mph wind speed controls.

Table 1 – Proposed Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount Type	Number Of Feed Lines	Feed Line Size (inches)
156	2 4	Powerwave Powerwave	7770.00 LGP21401 Diplexers		3	1-5/8

Note: All coax are internal to monopole U.N.O.

Table 2 – Existing and Reserved Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount Type	Number Of Feed Lines	Feed Line Size (inches)
156*	2	Decibel	DB932QDG90EM	Pipe Mounted	8	1-5/8
148	9 (Reserved)	EMS Wireless	FV65-14-00NA2	13' LP Platform	9	1-5/8
133	12	ALP	9011	13' LP Platform	12	1-5/8
118	12	Decibel	DB844H90-E-XY	13' LP Platform	12	1-5/8
70	1		GPS Unit		1	1/2

\* See Executive Summary

## TOWER DESCRIPTION

The existing monopole has a 12-sided cross-section and is evenly tapered from 47.1" (flat-flat) at the base to 22" (flat-flat) at the top. It has four major sections connected by slip joints. The structure is galvanized and has no tower lighting.

The tower was originally designed for Sprint Spectrum by Summit Manufacturing, Inc. of West Hazleton, Pennsylvania for an 85 mph wind speed with ½" radial ice (25% reduction) in accordance with TIA/EIA-222-F 1996.

**ANALYSIS PROCEDURE**

**Table 3 – Documents Provided**

Document	Remarks	Reference	Source
Original Tower Drawings	Summit Manufacturing, Inc. Job # 29298-187, dated 3/19/98	Doc ID # 1614569	Crown DMZ

**Analysis Methods**

RISA Tower (Version 4.7.0.2), a commercially available software program, was used to create a three-dimensional model of the tower and calculate member stresses for various dead, live, wind, and ice load cases. All loads were computed in accordance with the ANSI/EIA/TIA-222-F and all local building code requirements. Selected output from the analysis is included in Appendix A.

**Assumptions**

1. Tower and structures were built in accordance with the manufacturer’s specifications.
2. The tower and structures have been maintained in accordance with manufacturer’s specifications.
3. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 & 2 and the referenced drawings.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD Associates should be allowed to review any new information to determine its effect on the structural integrity of the tower.

**ANALYSIS RESULTS**

**Table 4 – Tower Summary**

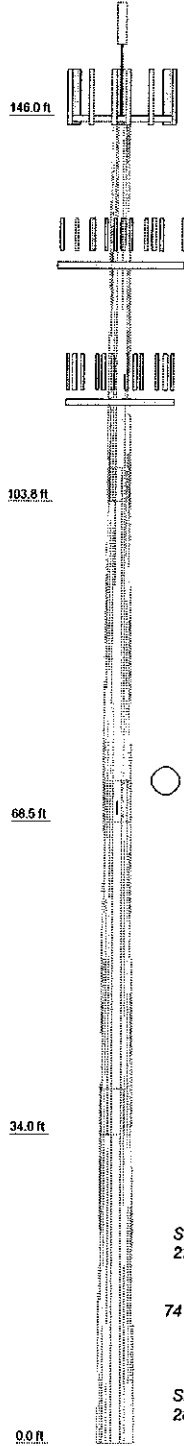
Notes	Member	Strength (KSI)	Capacity	Elevation (feet)	Results
	Pole (L1)	65	55.1%	104 – 146	Pass
	Pole (L2)	65	78.3%	69 – 104	Pass
	Pole (L3)	65	84.7%	34 – 69	Pass
	Pole (L4)	65	101.3%	0 – 34	Pass
	Base Plate	50	85.9%		Pass
	Anchor Rods	100	84.3%		Pass
1	Foundation		90.6%		Pass
<b>Structure Rating: 101.3%</b>					

1) See Appendix E for calculations supporting the percent capacity used.

**Recommended Modifications**

The tower and its foundations are sufficient for the proposed loads and do not require modifications.

Section	1	2	3	4
Length (ft)	42.25	39.00	39.00	39.00
Number of Sides	12	12	12	12
Thickness (in)	0.2500	0.3125	0.3750	0.3750
Lap Splice (ft)			5.00	
Top Dia (in)		28.0150	34.3628	38.8940
Bot Dia (in)		35.8190	41.5680	47.1000
Grade				A607-65
Weight (K)	28.8080	4.3	6.0	6.9



### DESIGNED APPURTENANCE LOADING

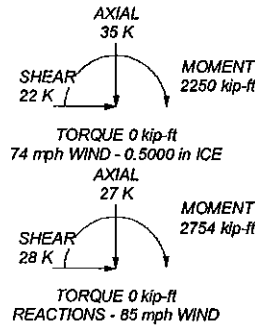
TYPE	ELEVATION	TYPE	ELEVATION
7770.00	156	Valmont 13' Platform w/o Rails	130
7770.00	156	(4) ALP-E-9011	130
(2) LGP21401	156	(4) ALP-E-9011	130
(2) LGP21401	156	(4) ALP-E-9011	130
10'6"x4" Pipe Mount	146	(4) DB844H90E-XY	115
Valmont 13' Platform w/o Rails	146	(4) DB844H90E-XY	115
(3) FV65-14-00NA2	146	(4) DB844H90E-XY	115
(3) FV65-14-00NA2	146	Valmont 13' Platform w/o Rails	115
(3) FV65-14-00NA2	146	Generic GPS	70


### MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

### TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 74 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 60 mph wind.
5. TOWER RATING: 101.3%



 <b>GPD Associates</b> 520 South Main St. Suite 2531 Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	<b>Job: Southington, Smoron BU# 876334</b>		
	Project: 2007187.43		
	Client: Crown Castle	Drawn by: jjohnson	App'd:
	Code: TIA/EIA-222-F	Date: 07/10/07	Scale: NTS
	Path: G:\Telecom\2007187\9\6\ISAM\876334.dwg		Dwg No. E-1

**CINGULAR WIRELESS  
Equipment Modification**

99 Day Hill Road, Windsor, CT  
 Site Number 5139  
 Former AT&T site  
 Town of Windsor P&Z 10/10/00; B.P. 2/26/01  
 Exempt Mods for Nextel 2002 & Town of Windsor 2003

**Tower Owner/Manager:** Cingular

**Equipment configuration:** Monopole

**Current and/or approved:** Twelve Allgon 7184 antennas @ 170 ft c.l.  
 Twelve runs 1 5/8 inch coax

**Planned Modifications:** Remove all existing antennas  
 Install six Powerwave 7770 antennas at 170 ft c.l.  
 Install six TMA's and six diplexers @ 170 ft

**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 9.4 % 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 11 % of the standard.

**Existing**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							8.37
Cingular GSM	170	1900 Band	8	100	0.0100	1.0000	1.00
<b>Total</b>							<b>9.4%</b>

\* Per CSC Records

**Proposed**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							8.37
Cingular GSM	170	1900 Band	3	427	0.0159	1.0000	1.59
Cingular UMTS	170	880 - 894	1	500	0.0062	0.5867	1.06
<b>Total</b>							<b>11.0%</b>

\* Per CSC Records

**Structural information:**

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (Malouf Engineering Intl., dated 7/11/07)



July 11, 2007

Mr. Derek Creaser  
 HUDSON DESIGN GROUP, LLC  
 representing AT&T  
 46 Beechwood Drive  
 North Andover, MA 01845

SUBJECT	<b>FEASIBILITY STRUCTURAL EVALUATION</b>		
Structure:	168 ft <b>Monopole</b>	Summit Manufacturing	
Client/ Site Name /#:	<b>Hudson D.G./ AT&amp;T</b>	<b>5139 Windsor - Day Hill</b>	<b># 5139</b>
Owner/Site Name /#:	AT&T	5137 Windsor - Day Hill	# 5139
MEI Project ID:	<b>CT00803M-07V0</b>		
Location:	99 Day Hill Road Windsor, CT 06095	Hartford County F.A # 10066014	
	LAT	41-52-16 N	LON 72-40-16 W

Malouf Engineering Int'l (MEI), as requested, has performed a feasibility structural evaluation of the above mentioned structure to assess the impact of the changed condition as noted below.

The structural evaluation performed used the following criteria:

CODE / STANDARD	ANSI/TIA-222-F-96 Standard / IBC 2003 Code - CT Building Code	
LOADING CASES	Full Wind:	80 Mph (with No Radial Ice)
	Iced Case:	69 Mph + 0.50" Radial Ice
	Service:	50 Mph

Table 1: Proposed Changed Condition Appurtenances

Elev (ft)	Tenant	Ants Qty	Appurtenance Model / Description	Mount Description	Lines Qty	Line size & Location
168	AT&T	6	LGP 7770 Panels	[exist 14ft LP Platform w/o rails]	[12]	[1-5/8"-(I)] [exist]
*		6	LGP21401 TMA's			
		6	LGP 13519 Diplexers			

\* Note: Existing (12) panel antennas & TMA's are to be removed and replaced with above.

Table 2: Original Design Appurtenances

Elev (ft)	Tenant	Ants Qty	Appurtenance Model / Description	Mount Description	Lines Qty	Line size & Location
168		12	7184.14 Panel Antennas	14' Low Profile Platform		
163		12	ALP 9212 Panel Antennas	14' Low Profile Platform		
148		12	ALP 9212 Panel Antennas	14' Low Profile Platform		
133		12	ALP 9212 Panel Antennas	14' Low Profile Platform		
118		12	ALP 9212 Panel Antennas	14' Low Profile Platform		
103		12	ALP 9212 Panel Antennas	14' Low Profile Platform		

(I) = Internal; (E) = External - as per TIA-222

The information used as source data to represent the existing structure and the related appurtenances is as follows:

Structure & Current Appurtenances	Structure data and design appurtenances loading as per original design data by Summit, ref. job # 29200-1654, design #12007, dated 11/08/00 - Tower designed for <i>Max. Stress at 97.4%</i> .
Changed Condition	As per AT&T /Cingular Wireless RF approval email, dated 04/27/07, Supplied by Hudson Design Group, LLC on 07/03/07.



The subject structure is evaluated for the feasibility of the installation of the proposed changed condition previously noted. The data records furnished were reviewed and the appurtenances loading was evaluated (no computer analysis performed, only relative loading magnitude comparison), in accordance with the TIA-222 Standard provisions and with the agreed limited scope of work terms and the results of this feasibility evaluation are reported. This evaluation is based on information supplied, and therefore, its results are based on and as accurate as that supplied data. MEI has made no independent determination of its accuracy. This existing structure is assumed, for the purpose of this evaluation, to have been properly maintained and to be in good condition with no structural defects and with no deterioration to its capacity ('as-new').

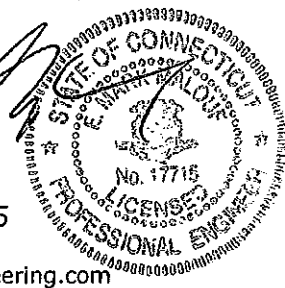
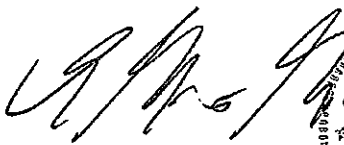
Based on the feasibility structural evaluation of the data provided, the subject structure, including foundation, would meet the minimum requirements of ANSI/TIA 222-F Standard for the proposed changed condition as stated above when considering the structure to have been properly designed for the stated appurtenances. The proposed loading would stress the structure about the same or less than the original design.

Therefore, **the installation of the noted proposed changed condition is structurally acceptable** on this existing structure in accordance with the ANSI/TIA 222-F Standard for the loading considered under the criteria listed and referenced.

MEI appreciates the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or other projects please contact us.

Respectfully submitted,

MALOUF ENGINEERING INT'L, INC.



E. Mark Malouf, PE  
Connecticut #17715  
972-783-2578 ext. 106  
mmalouf@maloufengineering.com



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

July 13, 2007

Peter Souza, Town Manager  
Town of Windsor  
Town Hall 275 Broad St.  
Windsor, CT 06095-0472

Re: Telecommunications Facility – 99 Day Hill Road, Windsor

Dear Mr. Souza:

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



## Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users							0.00
Cingular GSM	97	1900 Band	3	570	0.0653	1.0000	6.53
Cingular UMTS	97	880 - 894	1	500	0.0191	0.5867	3.26
Total							9.8%

### Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (Malouf Engineering Intl., dated 7/10/07)

Town of Windsor  
Planning and Zoning Commission

Site Plan Application #107D and Special Use Application #54B for wireless telecommunications facility at 1170 Matianuck Avenue.

Findings

1. Pursuant to our locational standards set forth in § 2.2.19D of the Zoning Regulations and pursuant to our general requirements, the applicant has sufficiently demonstrated a need for a new wireless telecommunications tower in the vicinity of Exit 36, Interstate 91.
2. Although some residential areas are nearby, a tower height of 110 feet will not have a significant negative impact if the tower design is modified to resemble an evergreen tree.
3. The site plan for the base equipment satisfies our fall zone and other site standards, provided additional screening by evergreen trees is included if determined advisable by the planning department staff.
4. A monopole design capable of accommodating co-located antennas will more likely facilitate optimal co-location, and is therefore preferred over the applicant's flagpole tower design with internal antennae pursuant to Zoning Regulations § 2.2.19C(1), 2.2.19D(1)(b) and 2.2.19D(3)(e).

Decision

Special Use Application #54B for a wireless telecommunications facility at 1170 Matianuck Avenue is approved as presented by the applicant at the public hearing, but with the following modifications and conditions:

- 1) Tower height shall be no greater than 110 feet.
- 2) Tower design shall be modified to a monopole designed to simulate an evergreen tree, using the best materials and design reasonably available for that purpose, and shall allow co-location of external antennae to the fullest extent feasible.
- 3) Final Staff approval including, but not limited to, final landscaping and screening details, and tree camouflage design.
- 4) ~~The applicant shall allow 15 feet of vertical space for public safety antenna placement at or near the top of the tower. Tower must be designed to accommodate windloading for 15-foot high di-pole antenna and space for 7/8-inch coaxial cable. However, if approvals from town and/or state agencies are required for such installation, it shall be the responsibility of the town to obtain such approval(s).~~
- 5) This approval is subject to the general requirements and other provisions of Zoning Regulations § 2.2.19.

Site Plan Application #107D is approved subject to the same findings, conditions and modifications as the approval for Special Use Application #54B.



Town Hall • Windsor, CT 06095-2994

# BUILDING PERMIT APPLICATION

CT-137

PERMIT #: B-0201009

ADDRESS OF WORK LOCATION: 1170 MATIANUCK AVE

TYPE OF PERMIT (Check One)

- BUILDING** (List size or sq. ft.)
  - Foundation \_\_\_\_\_
  - Addition \_\_\_\_\_
  - Acc. Structure \_\_\_\_\_
  - Deck \_\_\_\_\_
  - Roofing/Siding (# Squares) \_\_\_\_\_
  - Pool: Aboveground: \_\_\_\_\_ Inground: \_\_\_\_\_
  - Other \_\_\_\_\_
- ELECTRICAL**
  - S. Change
  - New Residential
  - New Commercial
  - Addition
  - Pool Wiring
  - Temporary Service
  - Low Voltage
  - Other
- PLUMBING**
  - New Residential
  - New Commercial
  - Addition
  - Fire Suppression
  - Water Heater
  - Other
- HVAC**
  - New Residential
  - New Commercial
  - Addition
  - Central Air
  - Replace/Repair
  - Other

New Residential (Total Gross Square Feet) \_\_\_\_\_  
 Residential Renovation \_\_\_\_\_  
 New Commercial (Total Gross Square Feet) 100 SF.  
 Commercial Renovation (Square Feet of Renovated Space) \_\_\_\_\_  
 Signs (size & type) \_\_\_\_\_

DESCRIPTION OF WORK (must fill out for all permits): INSTALLATION OF 110' TREE MONOPOLE AND OUTDOOR COMMUNICATION EQUIPMENT ON A CONCRETE SLAB AT GRACE

Retail Market Value \$ 80,000.00 Fee: \$1,057.00 Work Start Date: ASAP  
 Owner: GENESIS HEALTH VENTURES Applicant: TIM BONANNO GENERAL CONTRACTOR  
 Address: 148 WEST STATE ST. Address: P.O. BOX 83  
KENNETT Square, PA Zip 19348 QUAKER HILL, CT Zip 06375  
 Phone # (Days): 860-563-2341 Phone # (Days): 860-444-1087  
 License #: 901048 Type: MCO Exp.: 6/30/03

I understand that applying for this permit does not guarantee that it will be issued, and no work shall be done prior to the issuance of said permit or the approval of the **Building Official**. I agree to be in compliance with all applicable codes, standards, statutes, and ordinances which may pertain.

Applicant's Signature: [Signature] Print Name: TIM BONANNO Date 7/9/02

STAFF MEMBER Check Pertinent Items and initial:

Zoning OK Taxes OK Worker's Comp. OK Wetlands \_\_\_\_\_  
 Other: \_\_\_\_\_ Septic \_\_\_\_\_ Sewer \_\_\_\_\_ Letter of Authorization \_\_\_\_\_  
 Use Group: U Construction Type: 2 C

Fee:  Check  Cash Transaction/Receipt #: \_\_\_\_\_ Blanket \_\_\_\_\_  
 Special Conditions or Comments: All Work to Meet 1994 State Building Code Permits. Includ #808 114 7 hold Structures  
And 2001 1765 Special Insp. All Site Work Req. Super. Permits - Call For Inspections - Allow 48 Hr. Notice.  
Final list of final letters Req'd by Code Per TP-2 Approved Plans Only

Reviewed & Issued By: [Signature] Date: July 08 2002





July 10, 2007

Mr. Derek Creaser  
 HUDSON DESIGN GROUP, LLC  
 representing AT&T  
 46 Beechwood Drive  
 North Andover, MA 01845

SUBJECT	<b>FEASIBILITY STRUCTURAL EVALUATION</b>		
Structure:	110 ft Pine Pole	Engineered Endeavors / Pine Tree Pole	
Client/ Site Name /#:	Hudson D.G./ AT&T	5137 Windsor South	# 5137
Owner/Site Name /#:	AT&T	5137 Windsor South	# 5137
MEI Project ID:	<b>CT00802M-07V0</b>		
Location:	1170 Matlanuck Avenue Windsor, CT 06095	Hartford County F.A # 10066014	
	LAT	41-50-25.8 N	LON 72-39-59.4 W

Malouf Engineering Int'l (MEI), as requested, has performed a feasibility structural evaluation of the above mentioned structure to assess the impact of the changed condition as noted below.

The structural evaluation performed used the following criteria:

CODE / STANDARD	ANSI/TIA-222-F-96 Standard / IBC 2003 Code - CT Building Code	
LOADING CASES	Full Wind:	80 Mph (with No Radial Ice)
	Iced Case:	69 Mph + 0.50" Radial Ice
	Service:	50 Mph

Table 1: Proposed Changed Condition Appurtenances

Elev (ft)	Tenant	Ants Qty	Appurtenance Model / Description	Mount Description	Lines Qty	Line size & Location
97*	AT&T	3	LGP 7770 Panels	[exist T-arms]	[6]	[7/8"-(I)]
		6	LGP21401 TMA's			[exist]

\* Note: Existing panel antennas & TMA's are to be removed and replaced with above.

Table 2: Original Design Appurtenances

Elev (ft)	Tenant	Ants Qty	Appurtenance Model / Description	Mount Description	Lines Qty	Line size & Location
97		6	7250 Panel Antennas	4' Universal T-Arm Array		
87		12	ALP 9212 Panel Antennas	10' Univ. T-Arm Array		
77		12	ALP 9212 Panel Antennas	10' Univ. T-Arm Array		
50-110			Pine Branches			

(I) = internal; (E) = External - as per TIA-222

The information used as source data to represent the existing structure and the related appurtenances is as follows:

Structure & Current Appurtenances	Structure data and design appurtenances loading as per original design data by EEI, ref. # 10728, dated 4/25/02 - Tower designed for Max. Stress at 96%.
Changed Condition	As per AT&T /Cingular Wireless RF approval email, dated 04/27/07, Supplied by Hudson Design Group, LLC on 07/03/07.



The subject structure is evaluated for the feasibility of the installation of the proposed changed condition previously noted. The data records furnished were reviewed and the appurtenances loading was evaluated (no computer analysis performed, only relative loading magnitude comparison), in accordance with the TIA-222 Standard provisions and with the agreed limited scope of work terms and the results of this feasibility evaluation are reported. This evaluation is based on information supplied, and therefore, its results are based on and as accurate as that supplied data. MEI has made no independent determination of its accuracy. This existing structure is assumed, for the purpose of this evaluation, to have been properly maintained and to be in good condition with no structural defects and with no deterioration to its capacity ('as-new').

Based on the feasibility structural evaluation of the data provided, the subject structure, including foundation, would meet the minimum requirements of ANSI/TIA 222-F Standard for the proposed changed condition as stated above when considering the structure to have been properly designed for the stated appurtenances. The proposed loading would stress the structure about the same or less than the original design.

Therefore, **the installation of the noted proposed changed condition is structurally acceptable** on this existing structure in accordance with the ANSI/TIA 222-F Standard for the loading considered under the criteria listed and referenced.

MEI appreciates the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or other projects please contact us.

Respectfully submitted,

MALOUF ENGINEERING INT'L, INC.

E. Mark Malouf, PE  
Connecticut #17715  
972-783-2578 ext. 106  
mmalouf@maloufengineering.com



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

July 13, 2007

Peter Souza, Town Manager  
Town of Windsor  
Town Hall 275 Broad St.  
Windsor, CT 06095-0472

Re: Telecommunications Facility – 1170 Matianuck Avenue, Windsor

Dear Mr. Souza:

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