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-043-059-076-089-089-106-070703** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 1455 Forbes Street, East Hartford; 68 Groton Long Point Road, Groton; 8 Old Route 79, Madison; 167 Lester Street, New Britain; 200 Stanley Street, New Britain; and 170 Ingham Hill Road, Old Saybrook, 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 2, 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 Melody A. Currey, Mayor, Town of East Hartford
Michael J. Dayton, Town Planner, Town of East Hartford
The Honorable Harry A. Watson, Mayor, Town of Groton
Kevin Quinn, Zoning Enforcement Officer, Town of Groton
The Honorable Thomas S. Scarpati, First Selectman, Town of Madison
Marilyn M. Ozols, Planning & Zoning Administrator, Town of Madison
The Honorable Timothy T. Stewart, Mayor, City of New Britain
Steven P. Schiller, Director of Planning, City of New Britain
The Honorable Michael A. Pace, First Selectman, Town of Old Saybrook
Christine Nelson, Town Planner, Town of Old Saybrook
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
Spectrasite Communications
SBA Inc.

cingular raising the bar™ The new at&t Your world. Delivered.

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-043-059-076-089-089-106-070703

HAND DELIVERED

July 2, 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 6 existing telecommunications facilities located in East Hartford, Groton, Madison, New Britain (2), and Old Saybrook

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

1455 Forbes Street, East Hartford, CT
Site Number 5276
Former AT&T site
Petition 535 approved 5/21/02

Tower Owner/Manager: Crown Castle

Equipment configuration: Monopole with pipe mount

Current and/or approved: Three Allgon 7250 antennas @ 120 ft c.l.
Six runs 1 1/4 inch coax
Three outdoor cabinets on existing concrete slab

Planned Modifications: Remove existing antennas
Install three Powerwave 7770 antennas at 120 ft c.l.
Install six TMA's @ 120 ft
Install additional 6 x 6 ft concrete slab
(see attached site plans)
Install one additional outdoor cabinet for UMTS

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 43.3 % 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 48.3 % 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 *							41.35
Cingular GSM *	120	1900 Band	8	98	0.0196	1.0000	1.96
Total							43.3%

* Per CSC Records

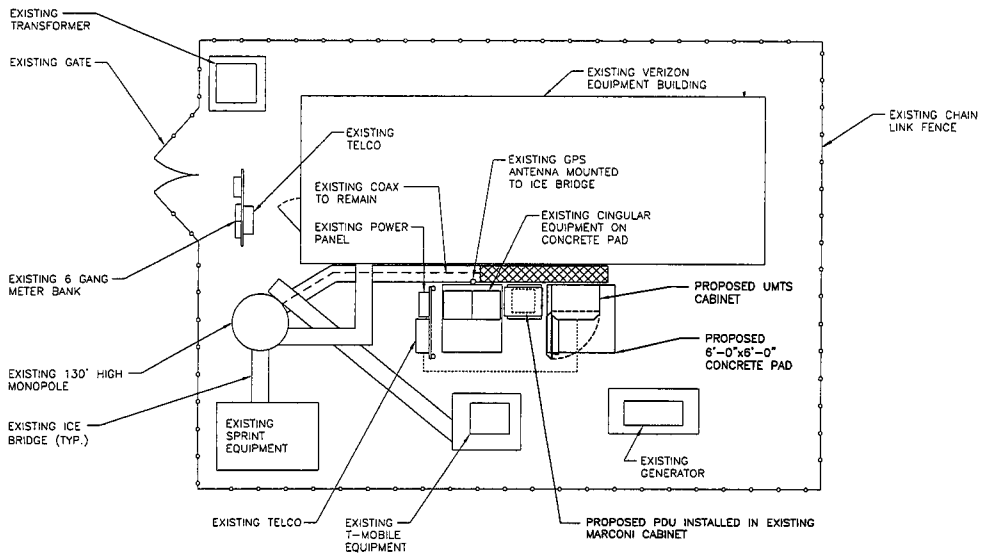
Proposed

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 *							41.35
Cingular GSM	120	1900 Band	3	640	0.0479	1.0000	4.79
Cingular UMTS	120	880 - 894	1	500	0.0125	0.5867	2.13
Total							48.3%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (Morrison Hershfield, dated 6/26/07)



COMPOUND PLAN
OUTDOOR UMTS

SCALE: 3/16"=1'-0"

0 2'-8" 5'-4" 10'-8" 16'-0"

Hudson Design Groupllc
46 BEECHWOOD DR N. ANDOVER MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5086

SAI communications
184 ROCKINGHAM ROAD, UNIT A
LONDONDERRY, NH 03053

SITE NUMBER: 5276
SITE NAME: EAST HARTFORD SOUTH
1455 FORBES AVENUE
EAST HARTFORD, CT 06118
HARTFORD COUNTY

cingular WIRELESS
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	06/25/07	CONSTRUCTION FINAL	RH	DC	DRS
0	05/01/07	ISSUED FOR CONSTRUCTION	RH	DC	DRS

SCALE: NOT SHOWN | DESIGNED BY: RH | DRAWN BY: RH

STATE OF CONNECTICUT
No. 24178
LICENSED PROFESSIONAL ENGINEER

CINGULAR WIRELESS
COMPOUND PLAN
UMTS (OUTDOOR)

JOB NUMBER	DRAWING NUMBER	REV
5276.01	C-1	1

June 26, 2007

Mitch West
Crown Castle International
46 Broadway
Albany, NY 12202
518-433-6242

Morrison Hershfield
66 Perimeter Center East, Ste 600
Atlanta, GA 30346
770-379-8500
www.morrisonhershfield.com

Subject: Structural Analysis Report

Carrier Designation	**Cingular Wireless Co-Locate**	
	Carrier Site Number:	***5276***
	Carrier Site Name:	***East Hartford-Forbes Avenue***
Crown Castle Designation	**Crown Castle BU Number:**	***806376***
	Crown Castle Site Name:	***HRT 100 943239***
	Crown Castle JDE Job No.:	***N/A***
Engineering Firm Designation	**MHC Project Number:**	***6073000 / CN0-827R1***
Site Data	**1455 Forbes Street, East Hartford, CT / Hartford County**	
	Latitude 41-43-53.3 Longitude -72-36-28.0	
	130 Foot Monopole Tower	

Dear Mr. West,

Morrison Hershfield is pleased to submit this **"Structural Analysis Report"** to determine the structural adequacy 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 No. 239692. The purpose of the analysis is to determine the suitability of the tower with the addition of Cingular's proposed antenna installation of three (3) Powerwave 7770.00 panel antennas with six (6) 1-1/4" feedlines at 120 ft (replacing three (3) existing Allgon 7250.03 panel antennas and six (6) 1-5/8" feedlines at 118 ft) when combined with the existing and reserved equipment on the structure. This analysis has been performed in accordance with the TIA/EIA 222-F standard based upon a fastest-mile wind speed condition of 80 mph with 1/2" radial ice, meeting the requirements of Section 3108.4 of the 2003 International Building Code.

Based on our analysis, we have determined that the tower and foundation **are sufficient** for the proposed loading

We at *Morrison Hershfield* appreciate the opportunity of providing our continuing professional services to you and Crown Castle International. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

STATE OF CONNECTICUT
CHOON HONG TAN
No. 22092
LICENSED
PROFESSIONAL ENGINEER

6-26-07

C. H. David Tan, P.E. (CT No. 22092)
Senior Engineer

TABLE OF CONTENTS

INTRODUCTION

Morrison Hershfield, as requested by Crown Castle International, has carried out an analysis of the 130 ft monopole tower referenced in this report. The tower was originally designed by Valmont in 1991. Valmont designed the necessary modifications for the addition of a 20 ft tower extension in 2001. It is located at 1455 Forbes Street, East Hartford, CT in Hartford County.

ANALYSIS CRITERIA

The structural analysis was performed for this tower in accordance with the requirements of TIA/EIA-222-F using a fastest mile wind speed of 80 mph and 1/2" radial ice for Hartford County, meeting the requirements of 2003 International Building Code.

Information available at the time of analysis included the tower manufacturer's drawings, foundation drawings, existing and proposed antenna details, and a soils report for the site (refer to Table 3). Also provided was a structural analysis performed by Valmont that detailed the tower modifications for the 20 ft tower extension. This information was sufficient for an analysis of the tower, subject to the conditions stated in the "Assumptions" section of this report.

Table 1 – Proposed Antenna and Cable Information

Center Line Elev. (feet)	Num Ants.	Antenna Manufacturer	Antenna Model	Mount Manufacturer	Mount Model	Num. Feed Lines	Feed Line
120	3	Powerwave	7770.00	+		6	1-1/4"
120	6	Powerwave	LGP21401 TMAs			-	-

Table 2 – Existing and Reserved Antenna and Cable Information

Center Line Elev. (feet)	Num Ants.	Antenna Manufacturer	Antenna Model	Mount Manufacturer	Mount Model ++	Num. Feed Lines	Feed Line
118	3	-	+++	-	Flush Mount	-	-
109 *	6	Decibel	DB844G65ZAXY	-	Platform	6	1-5/8"
109 *	6	Decibel	DB948F85T2E-M			6	1-5/8"
97	6	Decibel	DB980H90E-M	-	Platform	6	1-5/8"
97*	3					3	1-5/8"
87	3	EMS	RR90-17-02DP	-	(3) Low Profile T-Arms **	6	1-5/8"
87 *	6					12	1-5/8"
87 *	3	Ericsson	KRY 112 71 TMAs			-	-

Notes:
Any discrepancies in loading from Tables 1 and 2 should be brought to Morrison Hershfield's attention; results of this analysis cannot be used if the loading is substantially different. Refer to Appendix B for cable routing.

* Reserved antennas.

** In order to accommodate the reserved loading at 87 ft, this analysis assumes that the three (3) existing stand-off mounts will be replaced with three (3) T-arm mounts.

\+ Proposed antennas to be installed on the existing flush mounts at 118 ft.

++ Where no specific model is given, antenna mount details have been assumed based on photographs.

+++ For the analysis, three (3) existing Allgon 7250.03 panels are removed and replaced with the proposed loading at 120 ft.

ANALYSIS PROCEDURE

Available Documentation

Crown Castle provided Morrison Hershfield with portions of various documents to assist in our analysis. These documents are listed in Table 3.

Table 3 – Documents Provided

Document	Remarks	Reference	Source
Valmont Drawings (dated 11/12/91)	Tower manufacturer's drawings	Crown doc no. 262386	CCI Sites
Valmont Structural Analysis (dated 8/8/01)	Tower modification design	Crown doc no. 645113	CCI Sites
SAC Engineering (dated 11/30/91)	Foundation drawings	Crown doc no. 262389	CCI Sites
Dr. Clarence Welti, PE, PC Project Name 1455 Forbes Street (dated 11/11/91)	Geotechnical report	Crown doc no. 262381	CCI Sites

Analysis Methods

As required by Crown Castle International, RISA Tower, a commercially available software program for the analysis of telecommunication towers, was used to create a three-dimensional model of the tower and calculate member stresses for various load cases. Selected output from the analysis is included in Appendix A.

Assumptions

The following assumptions were made in order to perform this analysis:

1. The tower and structures were built and have been maintained in accordance with the manufacturer's specifications and are in good condition.
2. Modifications to the original tower have been properly installed and maintained as per design and are in good condition.
3. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and in the cable routing drawing in Appendix B.
4. The foundation is capable of supporting the original foundation design loads.

Exceptions to the foregoing assumptions are stated explicitly in this report. The analysis may be affected if any of the assumptions are not valid or have been made in error. In such an event, Morrison Hershfield shall be permitted to review any new information in order to determine its effect on the structural adequacy of the tower.

ANALYSIS RESULTS

Summary results of our structural analysis are presented in Tables 4 and 5 below. Selected listings from the computer analysis are provided in Appendix A. The results show that the **tower is in conformance** with the requirements of the relevant standards for the proposed loading. The foundation capacity is based on a comparison of the base reactions with the original design reactions. The foundation may therefore, by comparison, be considered to be adequate for the existing and proposed loading.

Table 4 – Tower Component Stresses vs. Capacity

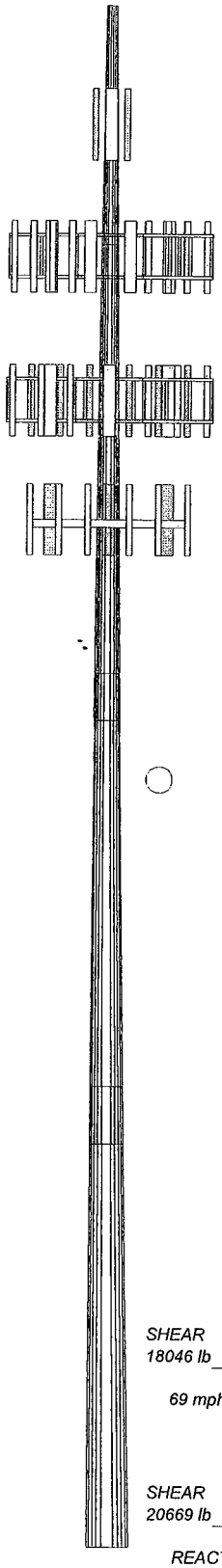
Section No.	Elevation	Combined Stress Ratio	Allowable Stress Ratio	Percent Capacity Used
1	110 – 130 ft	0.15	1.333	12.0
2	70 – 110 ft	0.97	1.333	73.7
3	34.1 – 70 ft	1.07	1.333	81.0
4	0 – 34.1 ft	1.08	1.333	81.7
Anchor Bolts – Tension Stress				73.6
Base Plate – Bending Stress				43.6

Table 5 – Tower Foundation Results

Load Type	Original Design	Current Analysis	% Ratio to Original
Compression (kip)	20.0	23.0	115 % *
Moment (kip-ft)	1947	1631	84 %
Shear (kip)	24.2	20.7	86 %

* The compression overload has been evaluated and determined to be acceptable.

Section	1	2	3	4
Length (ft)	20.00	40.00	39.92	39.00
Number of Sides	12	12	12	12
Thickness (in)	0.1875	0.2500	0.3125	0.3438
Lap Splice (ft)		4.00	4.92	
Top Dia (in)	10.5250	15.5250	24.0304	32.1602
Bot Dia (in)	15.5250	25.5310	34.0150	41.9000
Grade			A572-65	
Weight (lb) 12062.2	527.5	2221.8	3924.0	5388.9



DESIGNED APPURTENANCE LOADING

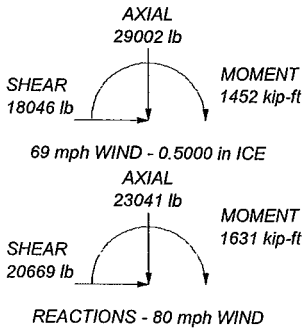
TYPE	ELEVATION	TYPE	ELEVATION
7770.00 (P)	120	(2) DB948F85T2E-M (E)	109
7770.00 (P)	120	13.5 ft Platform	97
7770.00 (P)	120	(3) DB980H90E-M (E/R)	97
(2) LGP21401 (P)	120	(3) DB980H90E-M (E/R)	97
(2) LGP21401 (P)	120	(3) DB980H90E-M (E/R)	97
(2) LGP21401 (P)	120	(3) Low Profile T-Arms (R)	87
(3) Flush Mounts	118	(3) RR90-17-02DP (E/R)	87
13.5 ft Platform	109	(3) RR90-17-02DP (E/R)	87
(2) DB844G65ZAXY (E)	109	(3) RR90-17-02DP (E/R)	87
(2) DB844G65ZAXY (E)	109	Ericsson KRY 112 71 (R)	87
(2) DB844G65ZAXY (E)	109	Ericsson KRY 112 71 (R)	87
(2) DB948F85T2E-M (E)	109	Ericsson KRY 112 71 (R)	87
(2) DB948F85T2E-M (E)	109		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for a 80 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 69 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 81.7%



Morrison Hershfield Corporation
66 Perimeter Center East, Suite 600
Atlanta, GA 30346
Phone: (770) 379-8500
FAX: (770) 379-8501
Consulting Engineers

Job: 6073000 / CN0-827R1			
Project: Crown# 806376 / HRT 100 943239			
Client: Crown Castle International	Drawn by: JReynolds	App'd:	
Code: TIA/EIA-222-F	Date: 06/26/07	Scale: NTS	
Path:		Dwg No. E-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 2, 2007

Honorable Melody A. Currey
Mayor, Town of East Hartford
Town Hall 740 Main St.
East Hartford, CT 06108-3114

Re: Telecommunications Facility – 1455 Forbes Avenue, East Hartford

Dear Mayor Currey:

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

68 Groton Long Point Road, Groton, CT
Site Number 2164
Exempt Modifications 12/20/94, 11/21/96, and 9/5/02

Tower Owner/Manager: Town of Groton

Equipment configuration: Self-supporting lattice tower

Current and/or approved: Nine CSS DUO1417 antennas @ 133 ft c.l.
Nine runs 1 1/4 inch coax
Six TMA's / three diplexers

Planned Modifications: Remove three CSS antennas
Install three Powerwave 7770 antennas at 133 ft c.l.
Install three additional diplexers @ 133 ft (total of 6)
Install three additional runs 1 1/4 inch coax (total of 12)

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 24.1 % 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 22.3 % 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 *							14.76
Cingular TDMA *	133	880 - 894	16	100	0.0325	0.5867	5.54
Cingular GSM *	133	880 - 894	2	296	0.0120	0.5867	2.05
Cingular GSM *	133	1900 Band	2	427	0.0174	1.0000	1.74
Total							24.1%

* 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 *							14.76
Cingular UMTS	133	880 - 894	1	500	0.0102	0.5867	1.73
Cingular GSM	133	1900 Band	2	427	0.0174	1.0000	1.74
Cingular GSM	133	880 - 894	4	296	0.0241	0.5867	4.10
Total							22.3%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications. (All-Points Technology Corp., dated 6/29/07)

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

June 29, 2007

Hudson Design Group, LLC
46 Beechwood Drive
North Andover, MA 01845

Attn: Derek Creaser
Re: 140' Self-Supporting Tower, Groton, CT
Cingular Site #2164; New London-Groton PD

Dear Derek,

All-Points Technology Corporation, P.C. (APT) evaluated the 140' self-supporting tower located at the Groton Police Station at 68 Groton Long Point Road in Groton, Connecticut for antenna changes proposed by Cingular Wireless. APT previously visited the tower site and performed a structural analysis for Verizon Wireless dated November 22, 2004. This evaluation also relied on information provided by others, which included recent tower photographs and antenna changes proposed by Cingular Wireless.

Cingular Wireless proposes to replace three of their existing nine CSS DUO1417-8686 panel antennas with three Powerwave 7770 panel antennas, three LGP 13519 diplexers, and three additional 1-1/4" lines. The existing six ADC CG-1900W850 tower-mounted amplifiers, three ADC diplexers and nine 1-1/4" feed lines will remain. APT recommends new feed lines be stacked on existing lines.

My evaluation indicates that the tower is capable of supporting Cingular's proposed antenna changes and associated appurtenances. The proposed changes represent an insignificant change in wind and dead loads on the structure compared to current loads. The structural capacity of the tower will not be diminished due to Cingular's proposed changes.

We appreciate this opportunity to provide our services to you. Please call if you have any questions.

Sincerely,
All-Points Technology Corporation, P.C.

Robert E. Adair, P.E.
Principal

CT198290 New London-Groton PD ltr 6-29-07.doc

☐ 3 SADDLEBROOK DRIVE • KILLINGWORTH, CONNECTICUT 06419 • PHONE: 860-663-1697 • FAX: 860-663-0935
☒ 150 OLD WESTSIDE ROAD • NORTH CONWAY, NEW HAMPSHIRE 03860 • PHONE/FAX: 603-356-5214

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 2, 2007

Mr. Mark Oefinger, Town Manager
Town of Groton
Town Hall 45 Fort Hill Rd.
Groton, CT 06340-4394

Re: Telecommunications Facility – 68 Groton Long Point Road, Groton

Dear Mr. Oefinger:

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

8 Old Route 79, Madison, CT
Site Number 2178
Exempt Modifications 4/12/00 and 7/11/02

Tower Owner/Manager: American Tower

Equipment configuration: Monopole

Current and/or approved:
Nine CSS DUO1417 antennas @ 132 ft c.l.
Nine runs 7/8 inch coax
Six TMA's / three diplexers @ 132 ft
Decommissioned AT&T antennas at 106 ft AGL

Planned Modifications:
Remove all nine existing antennas
Install six Powerwave 7770 antennas @ 132 ft c.l.
Remove three diplexers
Install six new diplexers @ 132 ft
Remove all nine runs 7/8 inch coax
Install twelve runs 1 5/8 inch coax
Remove decommissioned AT&T antennas

Decommissioning / Removal of AT&T Antennas

Cingular hereby gives notice that it has decommissioned the existing AT&T antennas at the 106 ft level of the tower (nominally 110 ft). These antennas will be removed from the tower when the UMTS work is performed. Associated coax cables inside the tower will be left in place because, unlike other decommissioning scenarios, Cingular continues to lease this level of the tower and anticipates use for the cables in the future.

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 44.1 % 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 37.3 % 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 *							34.30
CingularTDMA *	130	880 - 894	16	100	0.0340	0.5867	5.80
Cingular GSM *	130	880 - 894	2	296	0.0126	0.5867	2.15
Cingular GSM *	130	1900 Band	2	427	0.0182	1.0000	1.82
Total							44.1%

* 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 *							31.70
Cingular GSM	132	880 - 894	2	296	0.0122	0.5867	2.08
Cingular GSM	132	1900 Band	2	427	0.0176	1.0000	1.76
Cingular UMTS	132	880 - 894	1	500	0.0103	0.5867	1.76
Total							37.3%

* Per CSC Records, with AT&T component removed.

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications, even including the decommissioned AT&T equipment to be removed (see above). (American Tower Co., dated 5/22/07)

302540-JTP
5/21/2007

AMERICAN TOWER®
CORPORATION

Level 1 Structural Evaluation [1]		
ATC Site Number & Name	**302540, Madison CT 6**	Engineering ID: **40480011**
Carrier Site Number & Name	~~1021,~~ **Madison PD** Site No. 2178	
Site Address	8 Old 79 Madison, Connecticut 06443, New Haven County	
Tower Description	**148 ft Summit Monopole**	
Standards & Codes [2]	ANSI/TIA/EIA-222-F (1996) **85 mph w/ 0" radial ice** **74 mph w/ ½" radial ice**	2003 International Building Code **110 mph w/ 0" radial ice**

Table 1: Existing and Proposed Antenna Configuration

HEIGHT (Ft)	ANTENNA	CARRIER	COAX	[I]/[O] [a]	STATUS
150	(2) 10' Omni (1) 10' Dipole on Low Profile Platform	Town of Braford	(3) 7/8"	I	Existing
149	(9) 48" x 12" Panels (3) 72" x 12" Panels on Low Profile Platform	Nextel	(12) 1-5/8"	I	Existing
140	(9) Decibel DB844H90 (6) Decibel DB948F85T2EM on Low Profile Platform	Verizon	(15) 1-5/8"	I	Existing
132	**(6) Powerwave 7770-2** **(6) Powerwave LGP 13519** **on Low Profile Platform**	**Cingular**	**(12) 1-5/8"**	**I**	**Proposed**
120	(6) EMS RV90-17-02DP on Low Profile Platform	T-Mobile	(12) 1-5/8"	I	Existing
106	(3) 48" Panels on Flush Mounts	AT&T	(6) 1-1/4"	I	Existing
96	(9) 72" x 12" Panels on Low Profile Platform	Sprint	(9) 1-5/8"	I	Existing
35	(1) GPS Antenna on Standoff Mount	Sprint	(1) 1/2"	O	Existing

[a] *[I] / [O] denotes coax installed inside or outside of monopole respectively.*

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

STATE OF CONNECTICUT
RAPHAEL I. MOHAMED
No. 25112
LICENSED
PROFESSIONAL ENGINEER

5/22/07

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.

[1] The existing and proposed loads of *Table 1* are compared to the tower's current design capacity or previous analysis.
[2] The design wind criteria are compared to the current code requirements.
[3] 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 2, 2007

Honorable Thomas S. Scarpati
1st Selectman, Town of Madison
Madison Town Campus 8 Campus Dr.
Madison, CT 06443-2563

Re: Telecommunications Facility – 8 Old Route 79, Madison

Dear Mr. Scarpati:

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

167 Lester Street, New Britain, CT
Site Number 5379
Former AT&T site
Exempt Modification 4/25/02

Tower Owner/Manager: Crown Castle

Equipment configuration: Monopole

Current and/or approved: Four Allgon 7250 antennas @ 186 ft c.l.
Eight runs 1 5/8 inch coax

Planned Modifications: Remove three existing antennas
Install three Powerwave 7770 antennas at 186 ft c.l.
Install six TMA's @ 186 ft
Install additional 5 x 6 ft concrete slab for cabinets
(see attached site plans)
Install two additional outdoor cabinets

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 12.4 % 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 14.4 % 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 *							11.33
Cingular GSM *	187	1900 Band	4	250	0.0103	1.0000	1.03
Total							**12.4%**

* Per CSC Records

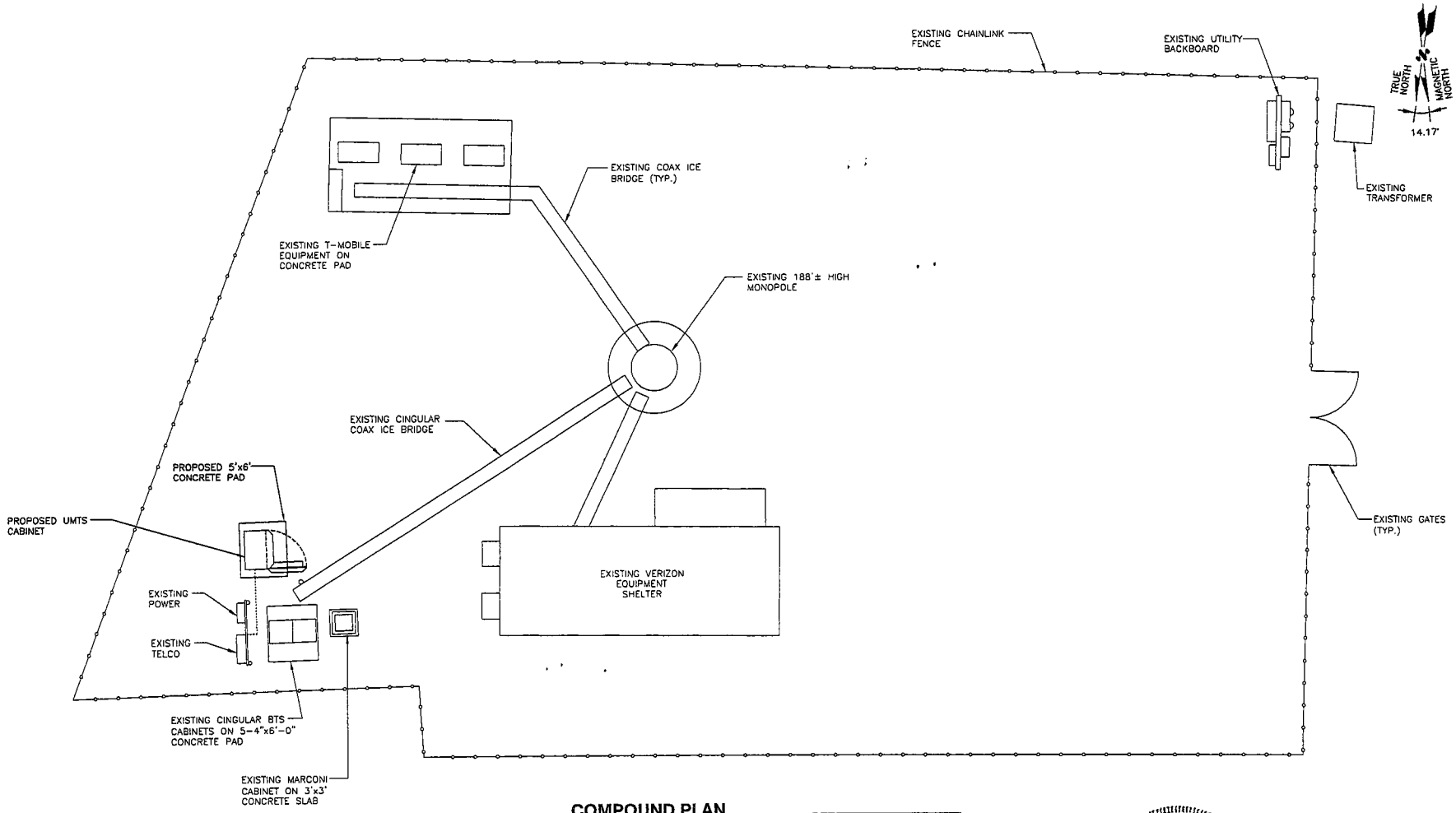
Proposed

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 *							11.33
Cingular GSM	186	1900 Band	5	427	0.0222	1.0000	2.22
Cingular UMTS	186	880 - 894	1	500	0.0052	0.5867	0.89
Total							14.4%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (PSG Engineering, dated 5/27/07)



COMPOUND PLAN
OUTDOOR UMTS

SCALE: 3/16"=1'-0"

0 2'-8" 5'-4" 10'-8" 16'-0"

STATE OF CONNECTICUT — No. 24178 — LICENSED PROFESSIONAL ENGINEER

Hudson Design Groupe LLC
46 BEECHWOOD DR. N. ANDOVER, MA 01845
TEL: (978) 557-5553 FAX: (978) 336-5586

SAI communications
184 ROCKINGHAM ROAD, UNIT A
LONDONDERRY, NH 03053

SITE NUMBER: 5379
SITE NAME: NEW BRITAIN EAST
178 LESTER STREET
NEW BRITAIN, CT 06053
HARTFORD COUNTY

cingular WIRELESS
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	08/24/07	CONSTRUCTION FINAL	AL	DC	DPH
0	05/04/07	ISSUED FOR CONSTRUCTION	AL	DC	DPH

SCALE: NOT SHOWN | DESIGNED BY: AL | DRAWN BY: AL

CINGULAR WIRELESS

COMPOUND PLAN
OUTDOOR UMTS

JOB NUMBER	DRAWING NUMBER	REV
5379.01	C-1	1

Date: **May 27, 2007**

Eva Morales
Crown Castle International
46 Broadway
Albany, NY 12204
(518) 433-6250

PSG Engineering, Ltd.
8206 Forest Gate Drive
Sugar Land, TX 77479

Phone: (281) 343-7099
Fax: (281) 343-7127

Subject: **Analysis Structural Report**

Carrier Designation	***Cingular Wireless*** **Co-Locate** **Carrier Site Number:** *"5379"* **Carrier Site Name:** *"New Britain-Lester Street"*
Crown Castle Designation	**Crown Castle BU Number:** *803175* **Crown Castle Site Name:** *CT NEW BRITAIN 3 CAC 803175* **Crown Castle JDE Job Number:** *88765*
Engineering Firm Designation	**PSG Engineering Project Number:** *0701H133-A060188*
Site Data	**Lester Road, New Britain, CT, Hartford County** **Latitude *41° 41' 11.8"*, Longitude *-72° 45' 27.8"*** *188* **Foot -** *Monopole* **Tower**

Dear Ms. Morales,

PSG Engineering, Ltd. 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 240559, in accordance with application 45765, revision 1.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC1: Existing + Reserved + Proposed Equipment **Sufficient Capacity**
Note: See Table 1 and Table 2 for the proposed and existing/reserved loading.

The analysis has been performed in accordance with the TIA/EIA 222-F standard based upon a wind speed of 80 mph fastest mile (100 mph 3-second gust).

We at *PSG Engineering, Ltd.* appreciate the opportunity of providing our continuing professional services to you and Crown Castle International. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

Oscar Pedraza, P.E.
President

STATE OF CONNECTICUT
OSCAR PEDRAZA
No. 21292
LICENSED
PROFESSIONAL ENGINEER

5/29/07

1) INTRODUCTION

The tower superstructure analysis is based on the original tower design by Paul J. Ford and Company for Summit Manufacturing, LLC dated December 11, 2000 (TIA/EIA-222-F: 85 mph and 74 with 1/2" radial ice). Since it cannot be determined which one of the two provided foundation design alternatives was built, the tower substructure analysis is based on a comparison with the original design base reactions.

2) ANALYSIS CRITERIA

This tower is designed using the TIA/EIA-222-F standard.
The following design criteria apply:

- Basic wind speed of 80 mph.
- Nominal ice thickness of 0.5000 in.
- Ice density of 56 pcf.
- A wind speed of 69 mph is used in combination with ice.
- Deflections calculated using a wind speed of 50 mph.
- Feedline torque is considered.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.333

Table 1 – Proposed (P) Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
190	*CASE A*					
	3(P)	Powerwave Technologies	7770.00	-	-	-
	6(P)		LGP21401			
	**CASE B (Controlling Load Case)*					
	12(R)	Standard	MLA Antenna	Low Profile Platform w/Handrail (1)	12(R) (Internal)	1 5/8
	6(R)	Powerwave Technologies	LGP21401			

*Note: Controlling Load Case results shown in Table 5 and Appendix A.

Table 2 – Installed (I) and Reserved (R) Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
**190	**4(I)	**Allgon	**7184	Low Profile Platform w/Handrail (1)	8(I) (Internal)	1 5/8
177	-	-	-	Low Profile Platform (1)	-	-
163	6(I)+3(R)	EMS Wireless	RR90-17-02DP	Low Profile Platform (1)	12(I)+6(R) (Internal)	1 5/8
	6(I)	Standard	TMA			
147	6(I)	Antel	WPA-80090/4CF	Low Profile Platform (1)	12(I) (Internal)	1 5/8
	6(I)	Decibel	DB948F85T2E-M		1(I) (Internal)	1/2

**Note: Installed antennas will be removed and replaced with proposed loads. Installed mount and coax lines will remain to support proposed loading.

Table 3 – Original Tower Manufacturer Design Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
190	12	Standard	60"x12"x3" Panel	Platform w/Handrail (1)	Not Available (Internal)	
177	12	Standard	60"x12"x3" Panel	Platform w/Handrail (1)		
162	12	Standard	60"x12"x3" Panel	Platform w/Handrail (1)		
147	12	Standard	60"x12"x3" Panel	Platform w/Handrail (1)		

3) ANALYSIS PROCEDURE

Table 4 – Documents Provided

Document	Remarks	Reference	Source
Original Tower Design	Summit Manufacturing	679659	Crown Site Data Manager
CAD Level Drawing(s)	188',177',162',147' Level Drawing(s)	-	Crown CAD Dept.

3.1) Analysis Method

RISATower (Version 4.7.2.1), 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 222F or the local building code requirements. Selected output from the analysis is included in Appendix A.

3.2) 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 the manufacturer's specifications.
3. The configuration of antennas, transmission cables, mounts, and other appurtenances are as specified in Tables 1 and 2 and the Level drawing(s) listed in Table 4.
4. When applicable, transmission cables are considered to be structural components for calculating wind loads, as allowed by TIA/EIA-222F.

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

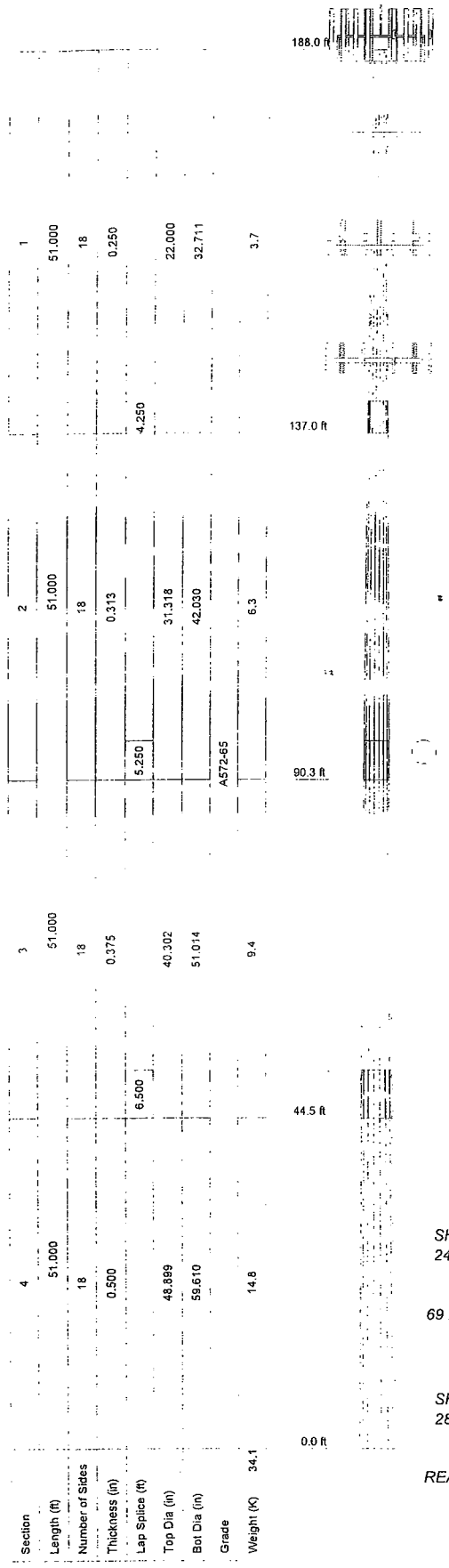
4) ANALYSIS RESULTS

Table 5 – Tower Component Stresses vs. Capacity – LC1

Notes	Component	Elevation (ft)	% Capacity	Pass/Fail
RISA Tower Analysis Summary:(Monopole)				
			Summary	
Notes:	Component	Elevation	% Capacity	Pass/Fail
	L1	188 - 137	65.6	Pass
	L2	137 - 90.25	82.6	Pass
	L3	90.25 - 44.5	80.2	Pass
	L4	44.5 - 0	65.1	Pass
Individual Components:				
Notes:	Component	Elevation	% Capacity	Pass/Fail
	Base Plate	-	72.8	Pass
	Anchor Bolts	-	76.0	Pass
	Base Foundation (Compared w/ Design Loads)	-	81.6	Pass
Structure Rating (max from all components) =				**82.6%**

4.1) Recommendations (if applicable)

No modifications are necessary.



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Generic C-2 Lightning Spur	192	(2) TMA	163
(2) LGP2140X (TMA)	190	(3) RR90-17-02DP w/Mount Pipe	163
(4) Cingular MLA Panel Antenna w/Mount Pipe	190	(2) TMA	163
		(3) RR90-17-02DP w/Mount Pipe	163
(2) LGP2140X (TMA)	190	(2) TMA	163
(4) Cingular MLA Panel Antenna w/Mount Pipe	190	(3) RR90-17-02DP w/Mount Pipe	163
		PiROD 13' Low Profile Platform (Monopole)	162
(2) LGP2140X (TMA)	190		
(4) Cingular MLA Panel Antenna w/Mount Pipe	190	(2) WPA-80090/4CF w/Mount Pipe	147
		(2) DB948F85T2E-M w/Mount Pipe	147
PiROD 13' Platform w/handrails (Monopole)	188	(2) WPA-80090/4CF w/Mount Pipe	147
		(2) DB948F85T2E-M w/Mount Pipe	147
(2) Mount Pipe (2"x72")	177	(2) WPA-80090/4CF w/Mount Pipe	147
(2) Mount Pipe (2"x72")	177	PiROD 13' Low Profile Platform (Monopole)	147
PiROD 13' Low Profile Platform (Monopole)	177		
(2) Mount Pipe (2"x72")	177	(2) DB948F85T2E-M w/Mount Pipe	147

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for a 80 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 69 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 82.6%

AXIAL
56 K

SHEAR
24 K

MOMENT
3321 kip-ft

TORQUE 0 kip-ft
69 mph WIND - 0.500 in ICE

AXIAL
47 K

SHEAR
28 K

MOMENT
3796 kip-ft

TORQUE 0 kip-ft
REACTIONS - 80 mph WIND

PSG Engineering, Ltd.
245 Commerce Green Blvd., Suite 240
Sugar Land, TX 77478
Phone: 281.265.3444
FAX: 281.265.3454

Job: ***PSG Engineering Project Number: 0701H133-A06018***
Project: ***(803175) (CT NEW BRITAIN 3 CAC 803175)***
Client: Crown Castle International Drawn by: PSG App'd:
Code: TIA/EIA-222-F Date: 05/27/07 Scale: NTS
Path: N:\Production\0701H133\803175.eri Dwg No. E-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 2, 2007

Honorable Timothy T. Stewart, Mayor
City of New Britain
City Hall 27 West Main St.
New Britain, CT 06051-2298

Re: Telecommunications Facility – 167 Lester Street, New Britain

Dear Mayor Stewart:

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

200 Stanley Street, New Britain, CT
Site 5194
Former AT&T site
Petition 544 dated 2/14/02

Tower Owner/Manager: Crown Castle

Equipment configuration: Monopole

Current and/or approved: Three Allgon 7250 antennas @ 195 ft c.l.
Six runs 1 5/8 inch coax

Planned Modifications: Remove all three existing antennas
Install three Powerwave 7770 antennas @ 195 ft c.l.
Install six TMA's @ 195
Install additional 6 x 6 ft concrete slab for cabinets
(see attached site plans)
Install two additional outdoor cabinets

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 14.1 % 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 16.8 % 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 *							13.33
Cingular *	195	1900 Band	8	100	0.0076	1.0000	0.76
Total							14.1%

* Per CSC Records

Proposed

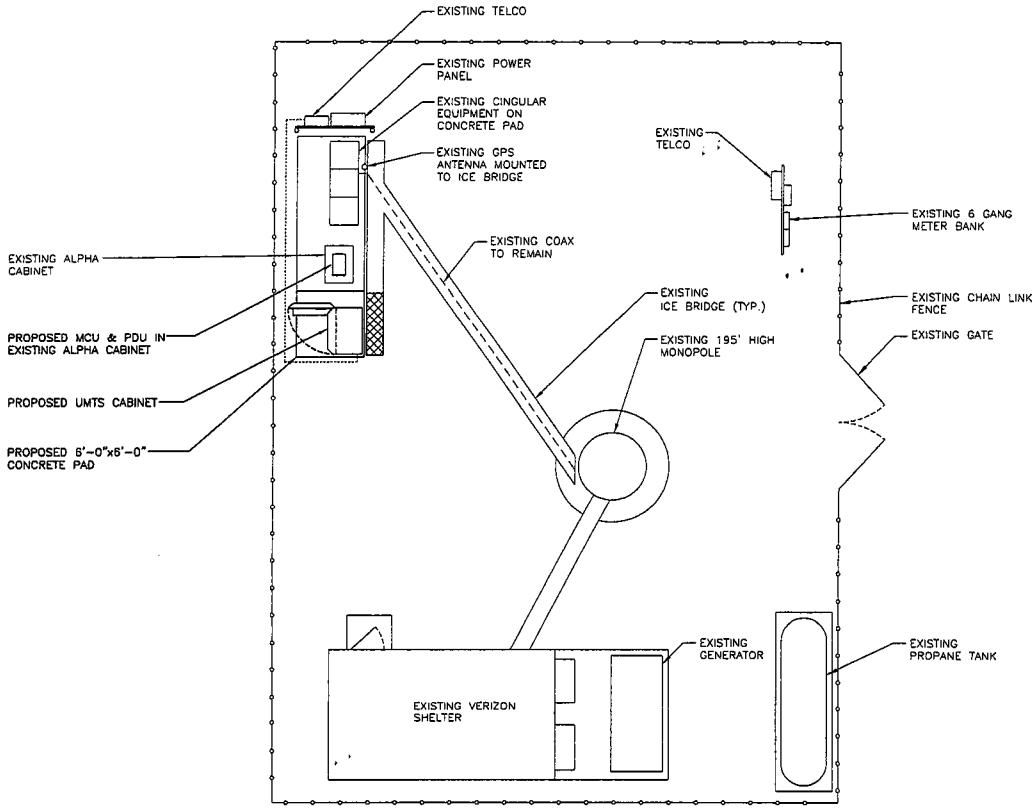
Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
Other Users *							13.33
Cingular GSM	195	1900 Band	5	570	0.0269	1.0000	2.69
Cingular UMTS	195	880 - 894	1	500	0.0047	0.5867	0.81
Total							16.8%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (PSG Engineering, dated 3/23/06)

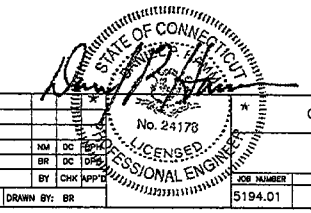
The 2006 structural analysis allocates loading for 12 antennas to Cingular, but we are proposing to mount and operate only 3. Installation of 6 proposed TMA's represents a substitution for the 9 uninstalled antennas. We respectfully submit, therefore, that the proposed modifications are within the analyzed loading parameters. Consequently, the 2006 analysis is still valid for the proposed tower loading.



COMPOUND PLAN
OUTDOOR UMTS

SCALE: 3/16"=1'-0"

0 2'-8" 5'-4" 10'-8" 16'-0"



Hudson Design Group LLC
46 BEECHWOOD DR. N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

SAI communications
184 ROCKINGHAM ROAD, UNIT A
LONDONDERRY, NH 03053

SITE NUMBER: 5194
SITE NAME: NEW BRITAIN SE
200 STANLEY STREET
NEW BRITAIN, CT 06051
HARTFORD COUNTY

cingular WIRELESS
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	06/25/07	CONSTRUCTION FINAL	NM	DC	DPS
0	04/24/07	ISSUED FOR CONSTRUCTION	BR	DC	DPS

SCALE: NOT SHOWN | DESIGNED BY: BR | DRAWN BY: BR

CINGULAR WIRELESS

COMPOUND PLAN
UMTS (OUTDOOR)

JOB NUMBER	DRAWING NUMBER	REV
5194.01	C-1	1

March 23, 2006

Veronica Harris
Crown Castle International
1200 McArthur Blvd.
Mahwah, NJ 07430
(201) 236-9094

PSG Engineering, Ltd.
8206 Forest Gate Drive
Sugar Land, TX 77479

Phone: (281) 343-7099
Fax: (281) 343-7127

Subject: **Structural Analysis Report**

Carrier Designation	***Verizon Wireless* Co-Locate** **Carrier Site Number:** *"HRT2129"* **Carrier Site Name:** *"New Britain-4"*
Crown Castle Designation	**Crown Castle BU Number:** *803843* **Crown Castle Site Name:** *CT NEW BRITAIN 4 CAC 803843* **Crown Castle JDE Job Number:** *71179*
Engineering Firm Designation	**PSG Engineering Project Number:** *0601H115-A060195*
Site Data	**Stanley Street, New Britain, CT, Hartford County** **Latitude *41°-39'-16.4"*, Longitude *-72°-46'-09.59".*** *195* **Foot -** *Monopole* **Tower**

Dear Ms. Harris,

PSG Engineering, Ltd. 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 *204344*. The purpose of the analysis is to determine the suitability of the tower with the addition of the proposed equipment listed in Table 1 of this report when combined with the existing and reserved equipment on the structure. This analysis has been performed in accordance with the TIA/EIA 222-F standard based upon a wind speed condition of 80 mph.

Based on our analysis we have determined the tower and foundation ***ARE*** sufficient for the proposed loading.

All proposed equipment shall be installed in accordance with Crown Castle Drawing Number(s): 803843_A_100.DWG.

We at *PSG Engineering* appreciate the opportunity of providing our continuing professional services to you and Crown Castle International. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

STATE OF CONNECTICUT
OSCAR PEDRAZA
No. 21292
LICENSED
PROFESSIONAL ENGINEER

Oscar Pedraza, P.E.
President

3/22/06

INTRODUCTION

This tower was designed by Paul J. Ford and Company for Summit Manufacturing, LLC on April 24, 2001 per TIA/EIA-222-F using a basic wind speed of 80 mph and 69 mph with ½" radial ice.

ANALYSIS CRITERIA

This tower is designed using the TIA/EIA-222-F standard.
The following design criteria apply:

- Basic wind speed of 80 mph.
- Nominal ice thickness of 0.5000 in.
- Ice density of 56 pcf.
- A wind speed of 69 mph is used in combination with ice.
- Deflections calculated using a wind speed of 50 mph.
- Feedline torque is considered.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.333

Table 1 – Proposed (P) Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
102	6(P)	Antel	WPA-80090/4CF	-	-	-

Table 2 – Installed (I) and Reserved (R) Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
195	3(I)	Allgon	7250.02	Low Profile Platform (1)	6(I)+6(R) (Internal)	1 5/8
	9(R)	Dapa	58210			
185	-	-	-	Low Profile Platform (1)	-	-
*102	*6(I)	*Swedcom	*ALP-E 9011-DIN	T-Arm w/ work platform (3)	12(I) (Internal)	1 5/8
	6(I)	Decibel	DB948F85T2E-M			

*Note: Installed (6) Swedcom antennas will be removed and replaced with proposed loads. Installed (6) Decibel antennas, coax lines, and mount will remain.

Table 3 – Original Tower Manufacturer Design Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
195	12	Standard	Panel Antenna	14' Low Platform	Not Available (Internal)	
185	12	Standard	Panel Antenna	14' Low Platform		
175	12	Standard	Panel Antenna	14' Low Platform		
165	1	Standard	Microwave Dish	Dish Mount		
155	12	Standard	Panel Antenna	(3) 14' T-Arm Mounts		
145	12	Standard	Panel Antenna	(3) 14' T-Arm Mounts		
135	1	Standard	Microwave Dish	Dish Mount		

ANALYSIS PROCEDURE

Table 4 – Documents Provided

Document	Remarks	Reference	Source
Original Tower Design	Summit Manufacturing	925033	Crown Site Data Manager
Crown Castle Application	Application ID: 30133 Revision 1	-	Crown Regional Office
CAD Level Drawing(s)	193',185',100' Level Drawing(s)	-	Crown CAD Dept.

Analysis Methods

RISATower (Version 4.0.0.00), 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 222F or the local building code requirements. Selected output from the analysis is included in Appendix A.

Assumptions

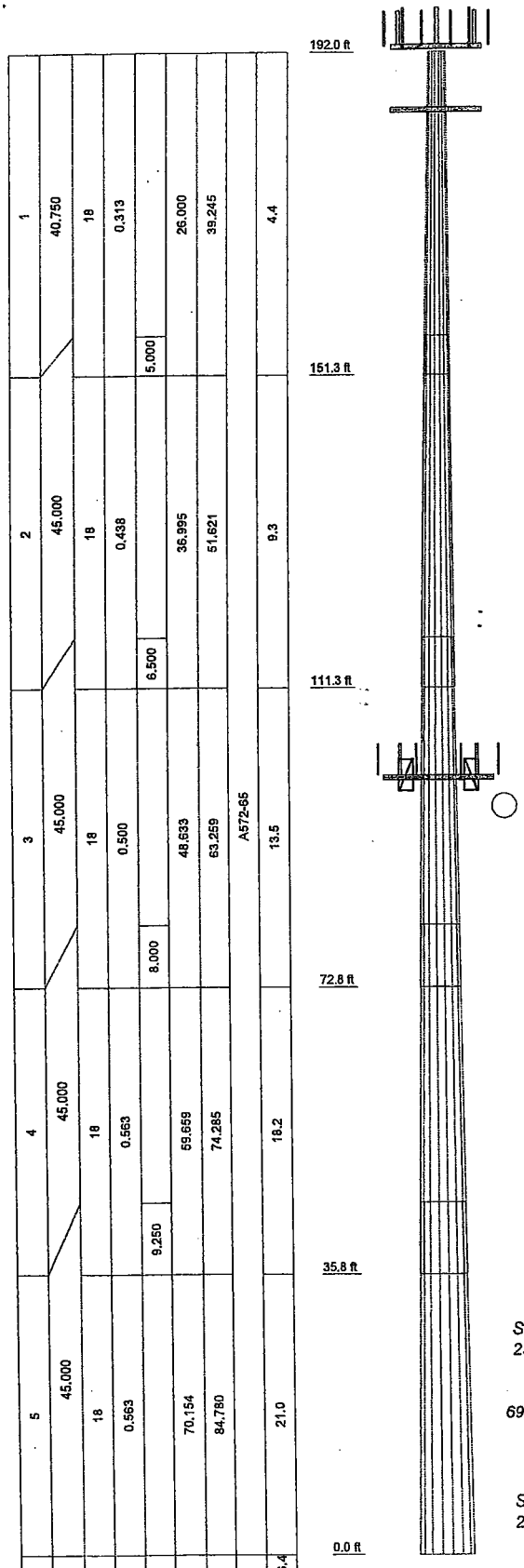
1. Tower and structures were built in accordance with the manufacturer's specifications.
2. The tower and structures have been maintained in accordance with manufacturer's specifications.
3. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2.
4. When applicable, transmission cables are considered to be structural components for calculating wind loads, as allowed by TIA/EIA-222F.

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

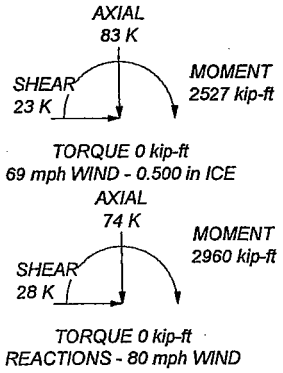
ANALYSIS RESULTS

Table 5 – Tower Section Capacity

Section Number	Elevation (feet)	Percent Capacity Used	Pass / Fail
1	192 - 151.25	14.0	Pass
2	151.25 - 111.25	15.9	Pass
3	111.25 - 72.75	18.6	Pass
4	72.75 - 35.75	19.9	Pass
5	35.75 - 0	22.8	Pass
Anchor Bolts		35.0	Pass
Base Plate		25.5	Pass
Base Foundation (Compared with original design loads)		≤32.5	Pass



Section	1	2	3	4	5
Length (ft)	40.750	45.000	45.000	45.000	45.000
Number of Sides	18	18	18	18	18
Thickness (in)	0.313	0.438	0.500	0.563	0.563
Lap Splice (ft)	5.000	6.500	8.000	9.250	
Top Dia (in)	26.000	36.995	48.633	59.659	70.154
Bot Dia (in)	39.245	51.621	63.259	74.285	84.780
Grade	A572-65				
Weight (K) 66.4	4.4	9.3	13.5	18.2	21.0



APPURTENANCES

TYPE	ELEVATION	TYPE	ELEVATION
(3) 58210 w/Mount Pipe	195	(2) WPA-80090/4CF w/Mount Pipe	102
7250.02 w/Mount Pipe	195	(2) DB948F85T2E-M w/Mount Pipe	102
(3) 58210 w/Mount Pipe	195	(2) WPA-80090/4CF w/Mount Pipe	102
7250.02 w/Mount Pipe	195	(2) DB948F85T2E-M w/Mount Pipe	102
(3) 58210 w/Mount Pipe	195	(2) WPA-80090/4CF w/Mount Pipe	102
7250.02 w/Mount Pipe	195	5' Standoff T-Arm (14' face width)	100
PIROD 13' Low Profile Platform (Monopole)	193	T1520KTA Monopole T-Arm Work Support	100
(4) Mount Pipe (2"x72")	185	5' Standoff T-Arm (14' face width)	100
(4) Mount Pipe (2"x72")	185	T1520KTA Monopole T-Arm Work Support	100
(4) Mount Pipe (2"x72")	185	5' Standoff T-Arm (14' face width)	100
PIROD 13' Low Profile Platform (Monopole)	185	T1520KTA Monopole T-Arm Work Support	100
(2) DB948F85T2E-M w/Mount Pipe	102		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for a 80 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 69 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 25.9%

PSG Engineering, Ltd.
245 Commerce Green Blvd., Suite 240
Sugar Land, TX 77478
Phone: 281.265.3444
FAX: 281.265.3454

Job: *PSG Engineering Project Number: 0601H115-A06019*			
Project: *(803843) (CT NEW BRITAIN 4 CAC 803843)*			
Client: Crown Castle International	Drawn by: Oscar Pedraza	App'd:	
Code: TIA/EIA-222-F	Date: 03/24/06	Scale: NTS	
Path: C:\Documents and Settings\opedraza.PSG\Desktop\Temp\0601H115\803843.eri		Dwg No. E-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 2, 2007

Honorable Timothy T. Stewart, Mayor
City of New Britain
City Hall 27 West Main St.
New Britain, CT 06051-2298

Re: Telecommunications Facility – 200 Stanley Street, New Britain

Dear Mayor Stewart:

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

170 Ingham Hill Road, Old Saybrook, CT
Site Number 2019
Docket 51.2; Exempt Mods 9/26/85 and 7/11/02

Tower Owner/Manager: Cingular

Equipment configuration: Monopole

Current and/or approved: Nine CSS DUO1417 antennas @ 154 ft c.l.
Nine runs 1¼ inch coax
Six TMA's / three diplexers @ 154 ft

Planned Modifications: Remove three existing antennas
Install three Powerwave 7770 antennas at 154 ft c.l.
Install three additional diplexers at 154 ft (total of 6)
Install three runs 1 ¼ inch coax (total of 12)

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 18.9 % 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 17.2 % 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 *							11.91
CingularTDMA *	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							18.9%

* 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 *							10.95
Cingular GSM	154	880 - 894	4	296	0.0180	0.5867	3.06
Cingular GSM	154	1900 Band	3	427	0.0194	1.0000	1.94
Cingular UMTS	154	880 - 894	1	500	0.0076	0.5867	1.29
Total							17.2%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications. (All-Points Technology Corp., dated 6/27/07)

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

STRUCTURAL ANALYSIS REPORT
150' MONOPOLE TOWER
OLD SAYBROOK, CONNECTICUT

Prepared for
Hudson Design Group, LLC

Cingular Site #2019

June 27, 2007

APT Project #CT198240

☐ 3 SADDLEBROOK DRIVE • KILLINGWORTH, CONNECTICUT 06419 • PHONE: 860-663-1697 • FAX: 860-663-0935
☒ 150 OLD WESTSIDE ROAD • NORTH CONWAY, NEW HAMPSHIRE 03860 • PHONE/FAX: 603-356-5214

STRUCTURAL ANALYSIS REPORT
150' MONOPOLE TOWER
OLD SAYBROOK, CONNECTICUT
prepared for
Hudson Design Group, LLC

EXECUTIVE SUMMARY:

All-Points Technology Corporation, P.C. (APT) performed a structural analysis of this 150-foot monopole tower located at 170 Ingham Hill Road in Old Saybrook, Connecticut. The analysis was performed for Cingular Wireless's replacement of three panel antennas on an existing low-profile platform at 150'.

Our analysis indicates the tower meets the requirements of the Connecticut State Building Code and TIA-222 with the proposed changes. The base foundation could not be evaluated, as information on its design or construction was not available to APT.

INTRODUCTION:

A structural analysis of this communications tower was performed by APT for Hudson Design Group, LLC. The tower is located at 170 Ingham Hill Road in Old Saybrook, Connecticut. APT did not visit the tower site. This analysis relied solely on information provided by others, which included recent photographs, a structural analysis report by URS Corporation dated April 19, 2005, and proposed antenna changes.

The structure is a 150-foot, galvanized steel, 4-section monopole of unknown manufacturer. The analysis was conducted using the following antenna inventory (proposed antenna changes shown in **bold** text):

Antenna	Elev.	Mount	Coax.
(3) antennas inside 6' x 16" canister	162'	10' pipe extension	(6) 1-1/4"
(6) DUO1417-8686, **(3) 7770.0 panels,** (6) TMAs, **(6) Diplexers, (3) Bias-Ts** [1]	154'	13' low-profile platform	**(12)** 1-1/4"
4' grid dish	150'	On above platform	7/8"
(3) BXA-185090/8, (6) ALP-E 9011 panels	133'	13' low-profile platform	(12) 1-5/8"
FM antenna, no radome	71'	4' sidearm	1/2"
6' yagi	22'	3' sidearm	1/2"

[1] Currently nine DUO1417-8686 antennas, nine 1-1/4" lines and six TMAs installed.

STRUCTURAL ANALYSIS:

Methodology:
The structural analysis was done in accordance with the Connecticut State Building Code and TIA/EIA-222, Revision F (TIA), Structural Standards for Steel Antenna Towers and Antenna Supporting Structures.

The analysis was conducted using a 85 mph fastest mile wind speed (equivalent to 105 mph 3-second gust) and one-half inch of radial ice over the structure and associated appurtenances. The TIA Standard requires a basic wind speed of 85 miles per hour for Middlesex County, Connecticut.

Two loading conditions were evaluated in accordance with TIA/EIA-222-F to determine tower capacity. The more demanding of the two cases is used to calculate tower capacity:

- Case 1 = Wind Load (without ice) + Tower Dead Load
- Case 2 = 0.75 Wind Load (with ice) + Ice Load + Tower Dead Load

The TIA/EIA standard permits a one-third increase in allowable stresses for towers less than 700-feet tall. Allowable stresses of tower members were increased by one-third when computing the tower capacity values shown below.

Analysis Results:
Our analysis determined the tower will support the proposed antenna changes. The following table summarizes the capacity of the monopole based on combined axial and bending stresses:

Elevation	Capacity
110'-150'	81%
70'-110'	91%
35'-70'	93%
0'-35'	92%
Base plate	100%

The base foundation could not be evaluated, as information on its design or construction was not available to APT.

Base reactions imposed with the proposed antenna changes were calculated to be as follows:

Compression:	22 kips
Total Shear:	19 kips
Overturning Moment:	1877 ft-kips

CONCLUSIONS AND SUGGESTIONS:

As detailed above, our analysis indicates that the existing 150' monopole tower located at 170 Ingham Hill Road in Old Saybrook, Connecticut meets the requirements of the Connecticut State Building Code and TIA-222 with Cingular Wireless's proposed antenna changes.

The base foundation could not be evaluated, as information on its design or construction was not available to APT.

LIMITATIONS:

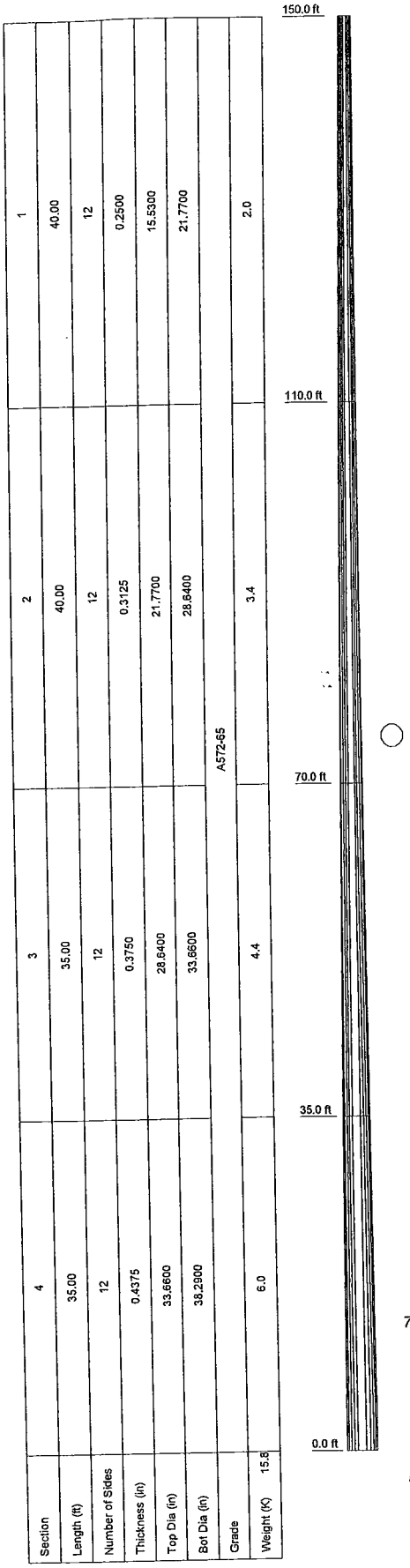
This report is based on the following:

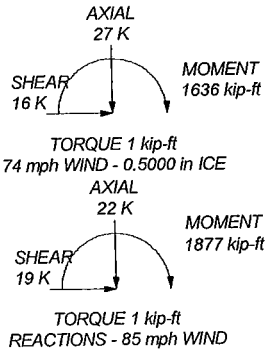
1. Tower is properly installed and maintained.
2. All members are in new condition.
3. All bolts are in place and are properly tightened.
4. Tower is in plumb condition.
5. Material yield stress values as follows:
   Monopole: 65 ksi
   Base plate: 50 ksi
   Anchor bolts: 75 ksi

All-Points Technology Corporation, P.C. (APT) is not responsible for any modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

1. Adding or relocating antennas.
2. Installing antenna mounts or waveguide cables.
3. Extending tower.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.





DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' x 16" shroud	161	7770.00	150
10'x4 1/2" Pipe Mount	155	4' grid dish	150
7770.00	150	(2) ALP-E 9011-DIN	133
(2) 1900 TMA	150	(2) ALP-E 9011-DIN	133
(2) 1900 TMA	150	(2) ALP-E 9011-DIN	133
(2) 1900 TMA	150	13' low-profile platform	133
LGP 13519	150	BXA-185090/8CF	133
LGP 13519	150	BXA-185090/8CF	133
LGP 13519	150	BXA-185090/8CF	133
(2) DUO1417-8686	150	4' sidearm	71
(2) DUO1417-8686	150	FM antenna	71
(2) DUO1417-8686	150	3' sidearm	22
13' low-profile platform	150	6' Yagi	22
7770.00	150		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
2. Tower is also designed for a 74 mph basic wind with 0.50 in ice.
3. Deflections are based upon a 50 mph wind.
4. Antennas not shown for clarity.
5. TOWER RATING: 92.9%

All-Points Technology Corp.
150 Old Westside Road
North Conway, NH 03860
Phone: 603-496-5853
FAX: 603-356-5214

Job: ***150' Monopole Tower***			
Project: ***CT198240 Old Saybrook***			
Client: HDG; Cingular Site #2019	Drawn by: Robert E. Adair, P.E.	App'd:	
Code: TIA/EIA-222-F	Date: 06/27/07	Scale: NTS	
Path:		Dwg No. E-1	

The new  at&t
Your world. Delivered.

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 2, 2007

Honorable Michael A. Pace
1st Selectman, Town of Old Saybrook
Town Hall, 302 Main St.
Old Saybrook, CT 06475

Re: Telecommunications Facility – 170 Ingham Hill Road, Old Saybrook

Dear Mr. Pace:

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