



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

Internet: 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-105-105-106-137-139-070706** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 61-2 Boggy Hole Road, Old Lyme; 125 Mile Creek Road, Old Lyme; Middlesex Turnpike, Old Saybrook; 40 Taugwonk Road, Stonington; and 44 Feyler Place, Suffield, 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 6, 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 Timothy C. Griswold, First Selectman, Town of Old Lyme
- Ann Brown, Zoning Enforcement Officer, Town of Old Lyme
- The Honorable William S. Brown, First Selectman, Town of Stonington
- Jason Vincent, Town Planner, Town of Stonington
- The Honorable Michael A. Pace, First Selectman, Town of Old Saybrook
- Christine Nelson, Town Planner, Town of Old Saybrook
- The Honorable Scott R. Lingenfelter, First Selectman, Town of Suffield
- Phil Chester, Planning Consultant, Town of Suffield
- 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
- Ken Thomas, Wireless Solutions
- Crossroads Site Management LLC



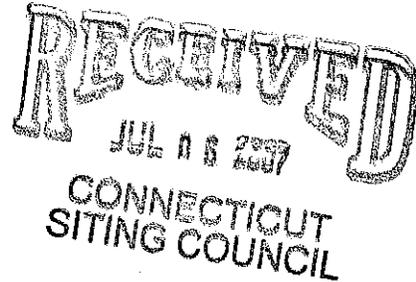
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

EM-CING-105-105-106-137-139-070706

Steven L. Levine
Real Estate Consultant

HAND DELIVERED

July 6, 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 telecommunications facilities located in Old Lyme (2), Old Saybrook, Stonington, and Suffield

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**

61-2 Boggy Hole Road, Old Lyme
Site Number 2198
Exempt Modifications 3/22/00 and 8/15/02

Tower Owner/Manager: Wireless Solutions

Equipment configuration: Monopole

Current and/or approved: Nine CSS DUO1417 antennas @ 145 ft c.l.
Nine runs 1 5/8 inch coax
Six TMA's / three diplexers @ 145 ft

Planned Modifications: Remove three existing antennas
Install three Powerwave 7770 antennas @ 145 ft c.l.
Install three additional diplexers @ 145 ft (total of 6)
Install three additional runs 1 5/8 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 8.2 % 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 9.7 % 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 *							5.01
Cingular GSM *	145	880 - 894	2	296	0.0101	0.5867	1.73
Cingular GSM *	145	1900 Band	2	427	0.0146	1.0000	1.46
Total							8.2%

* Per CSC Records

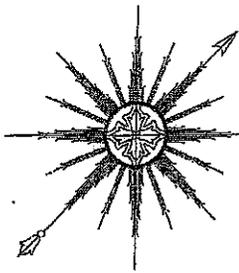
Proposed

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 *							5.01
Cingular GSM	145	880 - 894	2	296	0.0101	0.5867	1.73
Cingular GSM	145	1900 Band	2	427	0.0146	1.0000	1.46
Cingular UMTS	145	880 - 894	1	500	0.0086	0.5867	1.46
Total							9.7%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed revisions. (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: 175'± Monopole Tower, Old Lyme, CT
Cingular Site #2198; Old Lyme Boggy Hole Road

Dear Derek,

All-Points Technology Corporation, P.C. (APT) evaluated the 175' monopole tower located at 62-1 Boggy Hole Road in Old Lyme, Connecticut for antenna changes proposed by Cingular Wireless. APT did not visit the site; this evaluation relied on information provided by others, which included the tower structural design by Engineered Endeavors, Inc. dated June 21, 2002, 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 1-5/8" lines, assumed to be installed inside the pole. The existing six ADC CG-1900W850 tower-mounted amplifiers, three ADC diplexers and nine 1-5/8" feed lines will remain.

My evaluation indicates that the tower is capable of supporting Cingular's proposed antenna changes and associated appurtenances. The proposed installation meets original design loads and the anticipated stress levels in the tower and foundation will be significantly less than design capacity. The structural capacity of the monopole will not be diminished due to the 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

CT198270 Old Lyme itr 6-29-07.doc





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 6, 2007

Honorable Timothy C. Griswold
1st Selectman, Town of Old Lyme
Town Hall 52 Lyme St.
Old Lyme, CT 06371

Re: Telecommunications Facility – Boggy Hole Road, Old Lyme

Dear Mr. Griswold:

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

**CINGULAR WIRELESS
Equipment Modification**

125 Mile Creek Road, Old Lyme
Site Number 2235
Exempt Modification 4/15/04

Tower Owner/Manager: Verizon

Equipment configuration: Monopole

Current and/or approved: Nine CSS DUO1417 antennas @ 136ft c.l.
Nine runs 1 5/8 inch coax
Six TMA's / three diplexers @ 136ft

Planned Modifications: Remove three existing antennas
Install three Powerwave 7770 antennas @ 136 ft c.l.
Install three additional diplexers @ 136 ft (total of 6)
Install three additional runs 1 5/8 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 8.1 % 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 10.6 % 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 *							4.57
Cingular GSM *	137.5	880 - 894	2	296	0.0113	0.5867	1.92
Cingular GSM *	137.5	1900 Band	2	427	0.0162	1.0000	1.62
Total							8.1%

* Per CSC Records

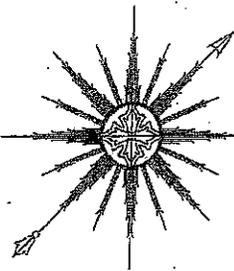
Proposed

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 *							5.32
Cingular GSM	136	880 - 894	2	296	0.0115	0.5867	1.96
Cingular GSM	136	1900 Band	2	427	0.0166	1.0000	1.66
Cingular UMIS	136	880 - 894	1	500	0.0097	0.5867	1.66
Total							10.6%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed revisions. (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: 160'± Monopole Tower, Old Lyme, CT
Cingular Site #2235; Old Lyme South

Dear Derek,

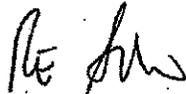
All-Points Technology Corporation, P.C. (APT) evaluated the 160' monopole tower located at 125 Mile Creek Road in Old Lyme, Connecticut for antenna changes proposed by Cingular Wireless. APT did not visit the site; this evaluation relied on information provided by others, which included the tower structural design by Summit Manufacturing, LLC dated December 6, 2001, 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 1-5/8" lines, assumed to be installed inside the pole. The existing six ADC CG-1900W850 tower-mounted amplifiers, three ADC diplexers and nine 1-5/8" feed lines will remain.

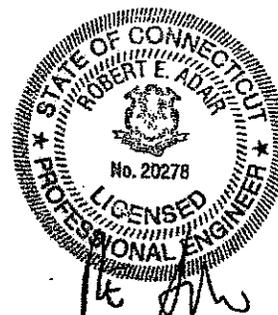
My evaluation indicates that the tower is capable of supporting Cingular's proposed antenna changes and associated appurtenances. The proposed installation meets original design loads and the anticipated stress levels in the tower and foundation will be significantly less than design capacity. The structural capacity of the monopole will not be diminished due to the 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

CT198300 Old Lyme South ltr 6-29-07.doc





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 6, 2007

Honorable Timothy C. Griswold
1st Selectman, Town of Old Lyme
Town Hall 52 Lyme St.
Old Lyme, CT 06371

Re: Telecommunications Facility – 125 Mile Creek Road, Old Lyme

Dear Mr. Griswold:

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**

Middlesex Turnpike, Old Saybrook, CT
Site Number 5394
Former AT&T Wireless Cell Site
Exempt Modification 6/25/02

Tower Owner/Manager: Crossroads Communications of Old Saybrook

Equipment configuration: Guyed lattice tower

Current and/or approved: Three Allgon 7250 antennas @ 145 ft c.l.
Six runs 1¼ inch coax
Three outdoor cabinets on existing concrete pad

Planned Modifications: Remove all three existing antennas
Install three Powerwave 7770 antennas at 145 ft c.l.
Install six TMA's at 145 ft
Remove one outdoor cabinet
Install one new outdoor cabinet for UMTS
Install new gate in fence to permit cabinet doors to open

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 12.5 % 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 13.7 % 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 *							10.75
Cingular GSM *	145	1900 Band	4	250	0.0171	1.0000	1.71
Total							12.5%

* Per CSC Records; Typical values for former AT&T installation

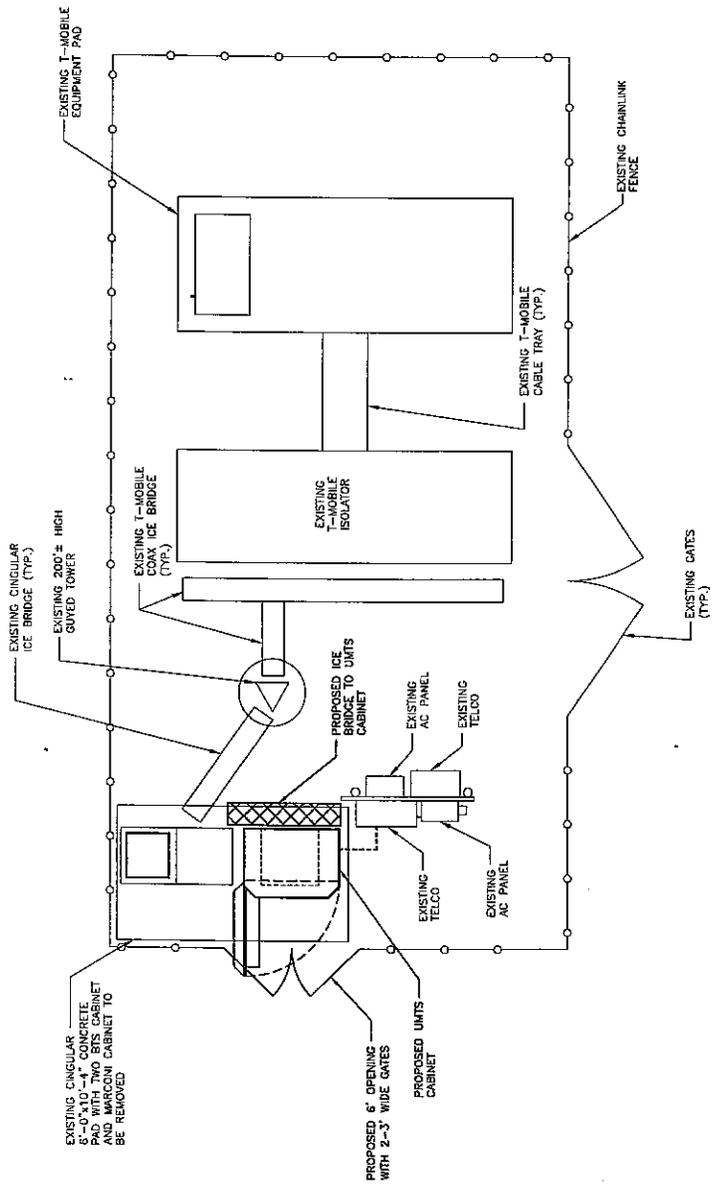
Proposed

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 *							10.75
Cingular GSM	145	1900 Band	2	427	0.0146	1.0000	1.46
Cingular UMTS	145	880 - 894	1	500	0.0086	0.5867	1.46
Total							13.7%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower has sufficient structural capacity to accommodate the proposed modifications. (Paul J. Ford & Co., dated June 29, 2007)



**COMPOUND PLAN
OUTDOOR UNITS**
SCALE: 3/8"=1'-0"



 HUDSON DESIGN GROUP 4 REDWOOD DR., TEL: 678 237 2322 ALPHARETTA, GA TEL: 678 236 6888	 184 ROCKINGHAM ROAD, UNIT A LINDSEYBERRY, NH 03053	SITE NUMBER: 5394 SITE NAME: NORTH OLD SAYBROOK RT. 9 MIDDLESEX TURNPIKE OLD SAYBROOK, CT 06475 MIDDLESEX COUNTY	 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067	1. 06/16/07 CONSTRUCTION PLAN AL. DR. BY:	CINGULAR WIRELESS COMPOUND PLAN OUTDOOR UNITS
				2. 08/24/07 ISSUED FOR CONSTRUCTION AL. DC. DR. BY:	CON NUMBER: 5394.01 DRAWING BY: AL.
SCALE: NOT SHOWN		REVISIONS:	DESIGNER: AMMER	DATE:	SHEET NUMBER: C-1



PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
250 East Broad Street • Suite 1500 • Columbus, Ohio 43215

Structural Analysis Report

PJF Project No.: **A00007-T127**

Structure: Existing 200-ft Guyed Tower

Manufacturer: Utility Tower

Location: Old Saybrook, Connecticut

Site Name: North Old Saybrook

Site Number: 5394

Prepared For:

Hudson Design Group

46 Beechwood Drive
North Andover, MA 01845

Attn: Jean Marshall

June 28, 2007



Analyzed by:
Madhukar Ozarker
Project Engineer
mozarker@pjfweb.com

Reviewed by:
Kevin P. Bauman, P.E.
Department Manager
kbauman@pjfweb.com

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Executive Summary

Design Standard:

Paul J. Ford and Company has analyzed the existing North Old Saybrook tower in accordance with the Telecommunications Industry Association Standard TIA/EIA-222-F for the following design wind velocities:

*85 mph Basic Wind Velocity without ice
74 mph Basic Wind Velocity with 0.5" radial ice*

Section 3108.4 of the International Building Code states: "Towers shall be designed to resist wind loads in accordance with TIA/EIA-222."

Antenna Loads:

The existing 200-ft guyed tower was analyzed for the following antenna and coax loading:

Status	Elev.	Antenna	Coax
Existing	168'	(3) EMS RR90-17-02DP w/boosters	(6) 7/8"
Existing	168'	(3) MHA Amplifiers	-
Existing	156'	(3) EMS RR90-17-02DP w/boosters	(6) 7/8"
Existing	156'	(3) MHA Amplifiers	-
Proposed	145'	(3) Powerwave Technologies 7770	(6) 7/8"
Proposed	145'	(6) TMAs -- LGP2140X	(1) 1/2"

Stresses:

When the existing tower is analyzed in accordance with the above mentioned code requirements to support the proposed antenna load it is stressed to 99% of its safe capacity. The tower meets the minimum code requirements as it now stands.

Existing Foundations:

We were not able to calculate the capacity of the existing foundations without a site-specific geotechnical report and the original drawings indicating the size of the foundations below grade.



Tower History:

The North Old Saybrook guyed tower was originally designed and constructed by Utility Tower. Paul J. Ford and Company was not supplied with the original drawings. Paul J Ford and Company analyzed this tower in 2002 based on the information given in Mohawk Tower Inc. tower inspection report dated 6/22/2000. The tower was then modified in 2002 based on the tower modification drawings prepared by Paul J Ford and Company (Job # 34802-317).

Project Description:

Hudson Design Group has asked Paul J. Ford and Company to provide a structural analysis of the existing 200-ft guyed tower located in Old Saybrook, Connecticut. In this analysis, we considered the replacement of the existing (3) Allgon 7250.03 antennas with (3) new Powerwave Technologies 7770 antennas, (6) tower mounted amplifiers and adding (1) ½" coax at an elevation of 145 ft.

Proposed Antenna and Feedline Loading:

Our structural analysis was completed considering the following antenna and feedline loading:

Status	Elev.	Antenna	Coax
Existing	168'	(3) EMS RR90-17-02DP w/boosters	(6) 7/8"
Existing	168'	(3) MHA Amplifiers	-
Existing	156'	(3) EMS RR90-17-02DP w/boosters	(6) 7/8"
Existing	156'	(3) MHA Amplifiers	-
Proposed	145'	(3) Powerwave Technologies 7770	(6) 7/8"
Proposed	145'	(6) TMAs – LGP2140X	(1) ½"

Note: The antenna feedlines are assumed to be placed as indicated on the attached tower sketches.

Structural Analysis:

Our structural analysis of this tower was completed according to the recommendations of the "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures", TIA/EIA-222-F. This standard recommends a minimum basic design wind velocity of 85 mph (measured at 33-ft above grade) for Middlesex County. If ice accumulation is considered, this standard allows a reduced design wind velocity of 74 mph with simultaneous 0.5" solid radial ice accumulation. The guyed tower was analyzed as a three-dimensional space truss using finite element software.

Results:

Our structural analysis of the existing North Old Saybrook tower indicates that the leg at elevation 60' – 40' is stressed to 99% of its safe capacity. This is the structural component that controls the capacity of the tower.

We were not able to calculate the capacity of the existing foundations with the information provided to us.



PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
250 East Broad Street · Suite 1500 · Columbus, Ohio 43215

Page 4 of 5
June 28, 2007
PJF# A00007-T127
Old Saybrook, Connecticut
Hudson Design Group
North Old Saybrook
5394

Conclusion:

Paul J. Ford and Company performed a structural analysis of the existing North Old Saybrook tower in accordance with the Telecommunications Industry Association Standard TIA/EIA-222-F. Our analysis indicates that the tower is adequate as it now stands to safely support the proposed antenna loading without the need for any modifications.

We were not able to calculate the capacity of the existing foundations without a site-specific geotechnical report and the original drawings indicating the size of the foundations below grade.

We hope that this analysis satisfies your current needs. If you have any questions concerning our analysis, or if we can be of further service to you, please feel free to contact us at (614) 221-6679.

Sincerely,
Paul J. Ford and Company

Madhukar Ozarker
Project Engineer



PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
250 East Broad Street • Suite 1500 • Columbus, Ohio 43215

Page 5 of 5
June 28, 2007
PJF# A00007-T127
Old Saybrook, Connecticut
Hudson Design Group
North Old Saybrook
5394

**STANDARD CONDITIONS FOR FURNISHING OF PROFESSIONAL ENGINEERING SERVICES ON
EXISTING STRUCTURES BY PAUL J. FORD AND COMPANY**

- 1) Paul J. Ford and Company has not performed a site visit to verify the tower member sizes or the antenna/coax loading. If the existing conditions are not as represented on these drawings, we should be contacted immediately to evaluate the significance of the deviation.
- 2) No allowance was made for any damaged, missing, or rusted members. The analysis of this tower assumes that no physical deterioration has occurred in any of the structural components of the tower and that all the tower members have the same load carrying capacity as the day the tower was erected.
- 3) It is not possible to have all the very detailed information to perform a very thorough analysis of every structural sub-component of an existing tower. The structural analysis by Paul J. Ford and Company verifies the adequacy of the main structural members of the tower. Paul J. Ford and Company provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc.
- 4) The structural integrity of the existing tower foundation can only be verified if exact foundation sizes and soil conditions are known. Paul J. Ford and Company will not accept any responsibility for the adequacy of the existing foundations unless the foundation sizes and a soils report are provided.
- 5) It is the owner's responsibility to determine the amount of ice accumulation, if any, that should be considered in the structural analysis.
- 6) This tower has been analyzed according to the minimum design wind loads recommended by the Telecommunications Industry Association Standard TIA/EIA-222-F. If the owner or local or state agencies require a higher design wind load, Paul J. Ford and Company should be made aware of this requirement.
- 7) The attached sketches are a schematic representation of the tower and foundation that we have analyzed. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions and for the proper fit and clearance in the field.
- 8) Miscellaneous items such as antenna mounts etc. have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.



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 6, 2007

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

Re: Telecommunications Facility – Middlesex Turnpike, 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

**CINGULAR WIRELESS
Equipment Modification**

40 Taugwonk Road, Stonington, CT
Site Number 2054
Docket 121; Exempt Modifications 2/15/90, 10/19/00, and 10/7/02

Tower Owner/Manager: Cingular Wireless

Equipment configuration: Monopole

Current and/or approved: Nine CSS DUO1417 antennas @ 153 ft c.l.
Nine runs 7/8 inch coax
Six TMA's and three diplexers @ 153 ft

Planned Modifications: Remove all nine existing antennas
Install six Powerwave 7770 antennas at 153 ft c.l.
Install three diplexers (total of 6)
Remove all runs 7/8 inch coax
Install twelve runs 1 5/8 inch coax

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 14.4 % 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 11.5 % 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 *							7.28
Cingular GSM *	152	880 - 894	16	100	0.0249	0.5867	4.24
Cingular GSM *	152	880 - 894	2	296	0.0092	0.5867	1.57
Cingular GSM *	152	1900 Band	2	427	0.0133	1.0000	1.33
Total							14.4%

* Per CSC Records

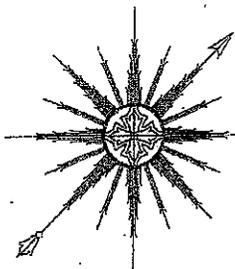
Proposed

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 *							7.28
Cingular UMTS	153	880 - 894	1	500	0.0077	0.5867	1.31
Cingular GSM	153	1900 Band	2	427	0.0131	1.0000	1.31
Cingular GSM	153	880 - 894	2	296	0.0091	0.5867	1.55
Total							11.5%

* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed revisions. (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: 150'± Monopole Tower, Stonington, CT
Cingular Site #2054; Stonington

Dear Derek,

All-Points Technology Corporation, P.C. (APT) evaluated the 150' monopole tower located at 40 Taugwonk Road in Stonington, Connecticut for antenna changes proposed by Cingular Wireless. APT did not visit the site; this evaluation relied on information provided by others, which included a structural analysis by SpectraSite dated September 17, 2002, recent tower photographs, and antenna changes proposed by Cingular Wireless.

Cingular Wireless proposes to replace their existing nine CSS DUO1417-8686 panel antennas and nine 7/8" feed lines with six Powerwave 7770 panel antennas, six LGP 13519 diplexers, and twelve 1-5/8" lines, assumed to be installed inside the pole. The existing six ADC CG-1900W850 tower-mounted amplifiers will remain. The proposed changes represent a reduction in wind and dead loads on the structure compared to current loads. The structural capacity of the monopole 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

CT198260 Stonington ltr 6-29-07.doc





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 6, 2007

Honorable William S. Brown
1st Selectman, Town of Stonington
Town Hall 152 Elm St.
Stonington, CT 06378-0352

Re: Telecommunications Facility – 40 Taugwonk Road, Stonington

Dear Mr. Brown:

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**

44 Ff Tyler Road, Suffield, CT
Site Number 1138
Petition 538; Exempt Modifications 1/17/02 and 6/3/02

Tower Owner/Manager: Crown Castle

Equipment configuration: Monopole

Current and/or approved: Nine CSS DUO1417 antennas @ 107 ft c.l.
Nine runs 1 5/8 inch coax
Six TMA's

Planned Modifications: Remove three existing antennas
Install three Powerwave 7770 antennas @ 107 ft c.l.
Install three additional runs 1 5/8 inch coax (total of 12)
Install three duplexers @ 107 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 48.2 % 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 42.3 % 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 *							33.79
Cingular TDMA *	107	880 - 894	16	100	0.0502	0.5867	8.56
Cingular GSM *	107	880 - 894	2	296	0.0186	0.5867	3.17
Cingular GSM *	107	1930 - 1970	2	427	0.0268	1.0000	2.68
Total							48.2%

* 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 *							33.79
Cingular GSM	107	880 - 894	2	296	0.0186	0.5867	3.17
Cingular GSM	107	1900 Band	2	427	0.0268	1.0000	2.68
Cingular UMTS	107	880 - 894	1	500	0.0157	0.5867	2.68
Total							42.3%

* Per CSC Records

Structural information:

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

Date: June 20, 2007



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

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

Subject: Structural Analysis Report

Carrier Designation Cingular Co-locate
Cingular Name: Suffield-Flyer Road
Cingular Number: 1138

Crown Castle Designation Crown Castle BU Number: 801486
Crown Castle Site Name: CT Suffield 2
Crown Castle JDE Number: 88767

GPD Associate Designation GPD Associates Project Number: 2007186.30

Site Data 44 Fyler Place, Suffield, CT 06078
Latitude 41° 58' 49.7", Longitude 72° 39' 26.2"
109' FWT Monopole

Dear Ms. Morales,

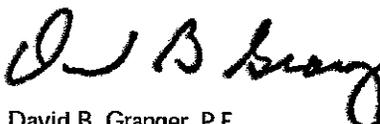
GPD is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the aforementioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 241952, in accordance with application 45469, revision 2. 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:

Elev. 110' (3) Powerwave 7770.00 Antennas on an existing 14' LP Platform w/ (3) 1-5/8" coax
(6) Powerwave LGP13519 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 105 mph 3 second gust. Based on our analysis we have determined the tower and its foundation are sufficient for the proposed, 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

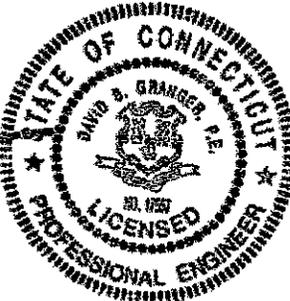


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EXECUTIVE SUMMARY

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 Ms. Eva Morales of Crown Castle International.

The existing tower is structurally satisfactory for the proposed loading configuration for a basic wind speed of 85 mph with ½" radial ice (25% reduction) in accordance with TIA/EIA-222-F. The tower rating/capacity is 50.2%.

Foundation reactions, with the proposed loads, were found to be 80.0% of the original design reactions. If the existing foundation was properly designed for the original reactions, it is our opinion that the foundation is adequate.

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 105 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)
107	3 6	Powerwave Powerwave	7770.00 LLGP13519 Dplxers		3	1-5/8

Note: See Appendix C for proposed coax layout.

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)
110	9 6	CSS ADC	DUO1417-8686 DB 800/1900 FB MSTHD	13' LP Platform	9	1-5/8
92	6 (Reserved) 6	Antel Decibel	WPA-80090/4CF DB948F85T2E-M	13' LP Platform	6 6	1-5/8 1-5/8
83	12	Decibel	DB844H90-XY	13' LP Platform	12	1-5/8
74	6 3 (Reserved)	Decibel Decibel	DB9780H90T2E-M DB9780H90T2E-M	13' LP Platform	6 3	1-5/8 1-5/8

* See Executive Summary

TOWER DESCRIPTION

The existing monopole has an 18-sided cross-section and is evenly tapered from 48.075" (flat-flat) at the base to 23.476" (flat-flat) at the top. It has three major sections connected by a slip joint, and a flange plate at 95'. The structure is galvanized and has no tower lighting.

The tower was originally designed for Crown Castle by Fort Worth Tower of Fort Worth, Texas for an 80 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	Fort Worth Tower Job #: J020227005, dated 2/12/02	Doc ID # 823124	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	11.5%	95 – 109	Pass
	Pole (L2)	65	39.2%	48 – 95	Pass
	Pole (L3)	65	50.2%	0-48	Pass
	Base Plate	60	38.6%		Pass
	Anchor Bolts	100	43.8%		Pass
	Foundation	80.0% of Original Design			Pass
Structure Rating: 80.0%					

Recommended Modifications

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

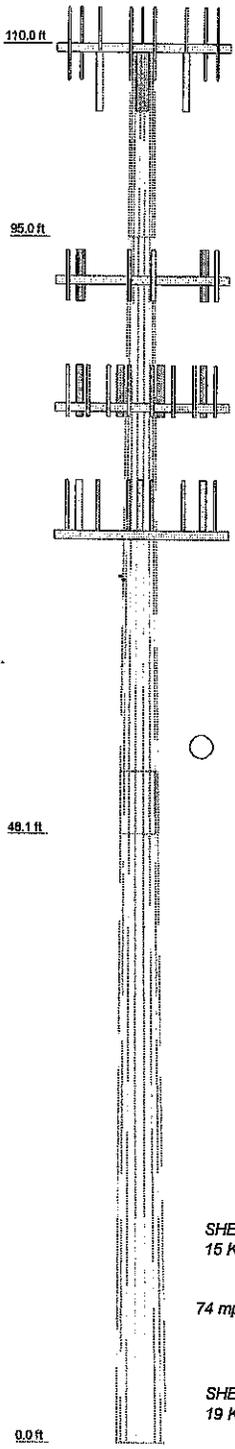
DISCLAIMER OF WARRANTIES

The engineering services rendered by GPD ASSOCIATES in connection with this Structural Analysis are limited to a computer analysis of the tower structure, size and capacity of its members. GPD ASSOCIATES does not analyze the fabrication, including welding, except as included in this report.

The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD Associates, but are beyond the scope of this report.

GPD ASSOCIATES makes no warranties, expressed or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD ASSOCIATES will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD ASSOCIATES pursuant to this report will be limited to the total fee received for preparation of this report.

Section	1	2	3
Length (ft)	15.00	46.52	56.00
Number of Stiles	18	18	18
Thickness (in)	0.1875	0.3125	0.3750
Lap Splice (ft)		4.32	
Top Dia (in)	23.4780	26.7150	35.8084
Bot Dia (in)	26.7150	37.5790	48.0790
Grade		A572-65	
Weight (K)	0.6	5.0	8.9



DESIGNED APPURTENANCE LOADING

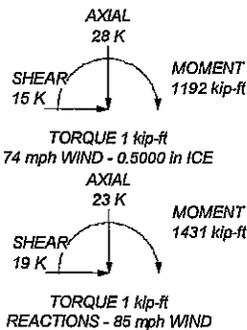
TYPE	ELEVATION	TYPE	ELEVATION
Valmont 13' Platform w/o Rails	110	(2) WPA-80090/4CF w/Mount Pipe	92
(3) DUO1417-8686	110	(2) WPA-80090/4CF w/Mount Pipe	92
(3) DUO1417-8686	110	(2) WPA-80090/4CF w/Mount Pipe	92
(3) DUO1417-8686	110	(2) DB946F8T2E-M w/Mount Pipe	92
7770.00 w/Mount Pipe	110	(2) DB946F8T2E-M w/Mount Pipe	92
7770.00 w/Mount Pipe	110	(2) DB946F8T2E-M w/Mount Pipe	92
(2) DB8001900 FB MSTHD	110	Valmont 13' Platform w/o Rails	82
(2) DB8001900 FB MSTHD	110	(4) DB844H90-XY w/Mount Pipe	82
(2) DB8001900 FB MSTHD	110	(4) DB844H90-XY w/Mount Pipe	82
(2) LGP13519	110	(4) DB844H90-XY w/Mount Pipe	82
(2) LGP13519	110	Valmont 13' Platform w/o Rails	72
(2) LGP13519	110	(3) DB978H90T2E-M	72
Valmont 13' Platform w/o Rails	92	(3) DB978H90T2E-M	72
		(3) DB978H90T2E-M	72

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 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: 50.2%



 GPD GROUP Consulting Engineers	GPD Associates 520 South Main St. Suite 2531 Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2101	Job: CT Suffield BU# 801486 Project: 2007186.30 Client: Crown Castle Code: TIA/EIA-222-F Path: G:\Telecom\200718630\RES\801486.dwg	Drawn by: jjohnson Date: 06/19/07 Scale: NTS Dwg No: E-1
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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 6, 2007

Honorable Scott R. Lingenfelter
1st Selectman, Town of Suffield
Town Hall 83 Mountain Rd.
Suffield, CT 06078

Re: Telecommunications Facility – 44 Ff Tyler Road, Suffield

Dear Mr. Lingenfelter:

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