



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

January 20, 2009

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

RE: **EM-CING-060-081204**- New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 2181 (aka 2365) Long Hill Road, Guilford, Connecticut.

Dear Mr. Levine:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 4, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Carl A. Balestracci, Jr., First Selectman, Town of Guilford
Regina Reid, Zoning Enforcement Officer, Town of Guilford
Crown Castle



CONNECTICUT SITING COUNCIL

Affirmative Action / Equal Opportunity Employer

EM-CING-060-081204



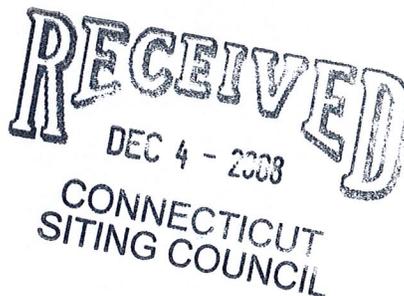
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

Steven L. Levine
Real Estate Consultant

ORIGINAL

HAND DELIVERED

December 4, 2008



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

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 2181 (aka 2365) Long Hill Road, Guilford (owner, Crown Castle)

Dear Chairman Caruso and Members of the Council:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile (GSM) communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility

will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected. Modifications to the existing site include all or some of the following as necessary to bring the site into conformance with the plan:

- Replacement of existing panel antennas with new antennas or, installation of additional antennas of a size required to accommodate UMTS.
- 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.
- Radome enlargement for flagpole and "stick" structures to accommodate larger antennas and additional associated equipment.

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 may be noted in the attachments.

3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.

4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Steven L. Levine
Real Estate Consultant

Attachments

**NEW CINGULAR WIRELESS
Equipment Modification**

2381 (aka 2365) Long Hill Road, Guilford
Site Number 5640
Former AT&T cell site
Docket 238 approved 5/03

Tower Owner/Manager: Crown Castle

Equipment Configuration: Monopole

Current and/or Approved: Three Allgon 7250 panel antennas @ 170 ft AGL
Six runs 1 5/8 inch coax cable
Concrete pad with outdoor equipment cabinets

Planned Modifications: Remove all existing antennas
Install new low profile platform
Install six Powerwave 7770 antennas (or equivalent) @ 167 ft
Install six TMA's and six diplexers @ 167 ft
Install six additional lines 1 5/8 inch coax
Remove one existing outdoor cabinet
Install one new 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 11.6 % 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 12.6 % 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 *							7.82
AT&T GSM *	170	1900 Band	12	250	0.0373	1.0000	3.73
Total							11.6%

* 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 *							7.82
AT&T UMTS	167	880 - 894	1	500	0.0064	0.5867	1.10
AT&T GSM	167	1900 Band	2	427	0.0110	1.0000	1.10
AT&T GSM	167	880 - 894	4	296	0.0153	0.5867	2.60
Total							12.6%

* Per CSC records

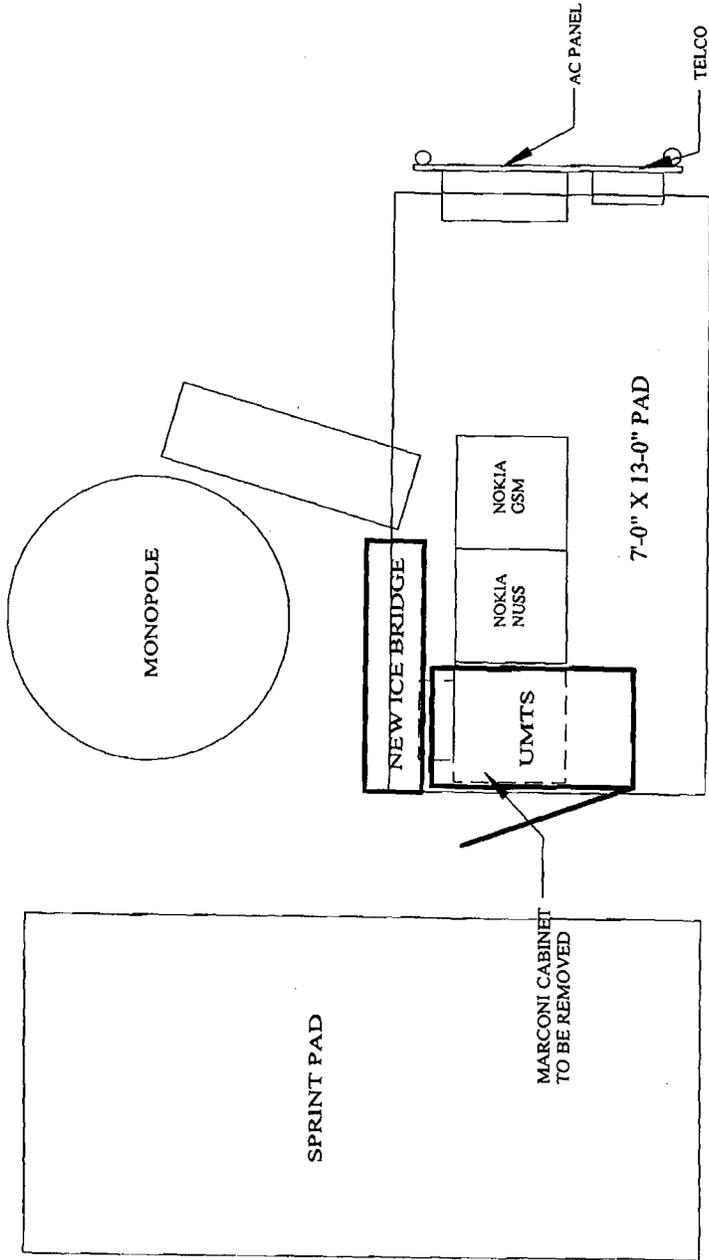
Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed equipment modifications. (GPD Associates, 12/2/08)



SITE NUMBER
5640
SITE NAME
Guilford East

TITLE:	EQUIPMENT PLAN
MISC. INFO:	
DWG. BY:	SGB
DATE:	07/07/08
SCALE:	N.T.S.
SHEET:	1 OF 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

December 4, 2008

Honorable Carl A. Balestracci, Jr.
1st Selectman, Town of Guilford
Town Hall 31 Park Street
Guilford, CT 06437

Re: Telecommunications Facility – 2381 Long Hill Rd

Dear Mr. Balestracci:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“AT&T”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes AT&T’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure

Date: December 02, 2008

Andrew Bazinet
Crown Castle USA Inc.
349 West Commercial Street, Suite 2630
East Rochester, NY 14445
(585) 899-3442



GPD ASSOCIATES

GPD Associates
520 South Main Street, Suite 2531
Akron, OH 44311
(330) 572-2100
bdaugherty@gpdgroup.com

Subject: Structural Analysis Report

Carrier Designation: AT&T Mobility Co-Locate
Carrier Site Number: 5640
Carrier Site Name: Guilford-Long Hill Road

Crown Castle Designation: Crown Castle BU Number: 876381
Crown Castle Site Name: Ward
Crown Castle JDE Job Number: 111860
Crown Castle Work Order Number: 242993

Engineering Firm Designation: GPD Associates Project Number: 2008283.13

Site Data: 2365 Long Hill Rd, Guilford, CT 06437, New Haven County
Latitude 41° 20' 47.34", Longitude -72° 43' 23.15"
176 Foot EEI Monopole Tower

Dear Mr. Andrew Bazinet,

GPD Associates is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above mentioned 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 312334, in accordance with application 70504, revision 2.

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:

LC5: Existing + Proposed Equipment

Note: See Table I and Table II for the proposed and existing loading, respectively.

Sufficient Capacity

The analysis has been performed in accordance with the TIA/EIA-222-F and the Connecticut Building Code standard based upon a wind speed of 85 mph fastest mile.

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

Respectfully submitted by:

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

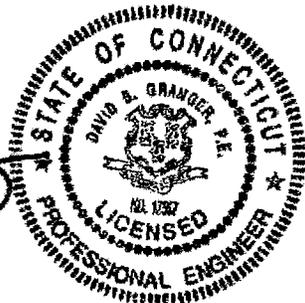


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1) INTRODUCTION

The existing 176' monopole has 18 sides and is evenly tapered from 54" (flat-flat) at the base to 16.5" (flat-flat) at the top. The structure is galvanized and has no tower lighting.

The tower was originally designed for Sprint PCS by Engineering Endeavors Incorporated of Mentor, Ohio in July of 2003. The tower was originally designed for a basic wind speed of 90 mph with 1/2" of radial ice in accordance with TIA/EIA-222-F.

2) ANALYSIS CRITERIA

The structural analysis was performed for this tower in accordance with the requirements of the Connecticut Building Code and TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a fastest mile wind speed of 85 mph with no ice, 73.6 mph with 0.5 inch ice thickness and 60 mph under service loads.

Table 1 - Proposed Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
167	167	6	Powerwave	7770.00	6	1-5/8	1
		6	Powerwave	LGP21401 TMA's			
		6	Powerwave	LGP21901 Diplexers			
		1	PIROD	13' LP Platform			

Notes:

- 1) See Appendix B for proposed coax layout.

Table 2 - Existing and Reserved Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
176	177	6	Decibel	DB950G40E-M	6	1-5/8	
	176	1		13' LP Platform			
167	167	3	Allgon	7250.00	6	1-5/8	1
153	156	3	Decibel	932QD65T2EM	12	1-5/8	
		6	Remec	S20057A-1 TMA's			
	153	1		13' Platform			
50	51	1	Lucent	KS24019-L112A GPS	1	1/2	

Notes:

- 1) Antennas to be removed and replaced by proposed. Feed lines to remain.

Table 3 - Design Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
177.5	177.5	1	Dapa	Low Profile Platform		
		12		48000		
167.5	167.5	1	Dapa	Low Profile Platform		
		12		48000		
157.5	157.5	1	Dapa	Low Profile Platform		
		12		48000		

3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Remarks	Reference	Source
Original Tower Drawings	EEl Job #: 11561, dated 7/7/03	Doc ID # 1613550	Crown DMZ
Foundation Drawings	EEl Job #: 11561, dated 7/7/03	Doc ID # 1614617	Crown DMZ
Geotechnical Report	JGI Project #: 03362G, dated 6/25/03	Doc ID # 1532993	Crown DMZ
Design Calculations	EEl Job #: 11561, dated 7/7/03	Doc ID # 1614660	Crown DMZ

3.1) Analysis Method

RISATower (version 5.3.0.1), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. 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 specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) When applicable, transmission cables are considered as structural components for calculating wind loads as allowed by TIA/EIA-222-F.

This analysis may be affected if any assumptions are not valid or have been made in error. GPD Associates should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 5 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail	
L1	176 - 144.25	Pole	TP23.65x16.5x0.1875	1	-5.95	701.52	53.5	Pass	
L2	144.25 - 94.58	Pole	TP34.33x22.4868x0.3125	2	-11.90	1698.59	63.1	Pass	
L3	94.58 - 46.953	Pole	TP44.3x32.6285x0.375	3	-20.88	2634.22	61.8	Pass	
L4	46.953 - 0	Pole	TP54x42.1966x0.375	4	-33.80	3318.18	66.4	Pass	
							Summary		
							Pole (L4)	66.4	Pass
							Rating =	66.4	Pass

Table 6 - Tower Component Stresses vs. Capacity - LC1

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods		57.4%	Pass
1	Base Plate		92.4%	Pass
1	Base Foundation Reinforcement		61.8%	Pass

Structure Rating (max from all components) =	92.4%
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Notes:

- 1) See "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) A factor of 1.3 is taken off the reaction entered in the Caisson Program to compare to the RISA Reactions.

4.1) Recommendations

The designs of the tower and its foundation are sufficient to support the proposed loading and do not require modification.

5) DISCLAIMER OF WARRANTIES

GPD ASSOCIATES has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD ASSOCIATES in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. All tower components have been assumed to only resist dead loads when no other loads are applied. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

GPD ASSOCIATES does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD ASSOCIATES provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation, if any, that should be considered in the structural analysis.

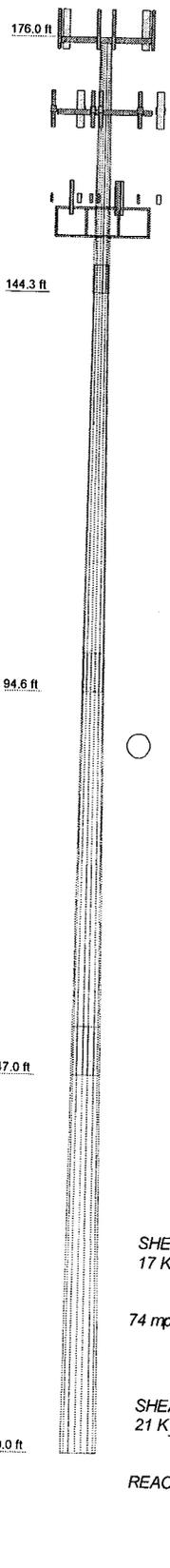
The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable 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.

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.

GPD ASSOCIATES makes no warranties, expressed and/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.

APPENDIX A
RISA TOWER OUTPUT

Section	1	2	3	4
Length (ft)	31.75	53.17	52.46	53.04
Number of Sides	18	18	18	18
Thickness (in)	0.1875	0.3125	0.3750	0.3750
Lap Splice (ft)	3.50	4.83	6.08	10.3
Top Dia (in)	16.5000	22.4888	32.6285	42.1986
Bot Dia (in)	23.6500	34.3300	44.3000	54.0000
Grade			A572-65	
Weight (K)	1.3	5.0	6.1	10.3



DESIGNED APPURTENANCE LOADING

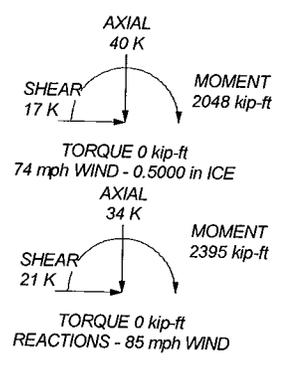
TYPE	ELEVATION	TYPE	ELEVATION
(2) DB950G40E-M w/Mount Pipe	176	(2) LGP21401	167
(2) DB950G40E-M w/Mount Pipe	176	PIROD 13' Low Profile Platform (Monopole)	167
(2) DB950G40E-M w/Mount Pipe	176	(2) S20057A-1	153
PIROD 13' Low Profile Platform (Monopole)	176	PIROD 13' Platform w/handrails (Monopole)	153
(2) 7770.00 w/ Mount Pipe	167	(2) S20057A-1	153
(2) 7770.00 w/ Mount Pipe	167	932QDG65T2EM w/Mount Pipe	153
(2) 7770.00 w/ Mount Pipe	167	932QDG65T2EM w/Mount Pipe	153
(2) LGP21901	167	932QDG65T2EM w/Mount Pipe	153
(2) LGP21401	167	932QDG65T2EM w/Mount Pipe	153
(2) LGP21901	167	(2) S20057A-1	153
(2) LGP21401	167	KS24019-L112A	50
(2) LGP21901	167	2'-0" - STANDOFF	50

MATERIAL STRENGTH

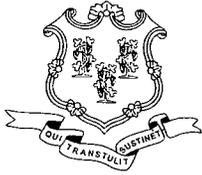
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in New Haven 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: 66.4%



 <p>GPD Associates 520 South Main Street, Suite 2531 Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572 2101</p>	Job: Ward BU# 876381
	Project: 2008283.13
	Client: Crown Castle USA Inc Drawn by: bdaugherty App'd:
	Code: TIA/EIA-222-F Date: 12/02/08 Scale: NTS
	Path: G:\Telecom\2008283.13\RISA\876381.rvt Dwg No. E-1



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

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www.ct.gov/csc

December 8, 2008

The Honorable Carl A. Balestracci, Jr.
First Selectman
Town of Guilford
Town Hall
31 Park Street
Guilford, CT 06437

RE: **EM-CING-060-081204**- New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 2181 (aka 2365) Long Hill Road, Guilford, Connecticut.

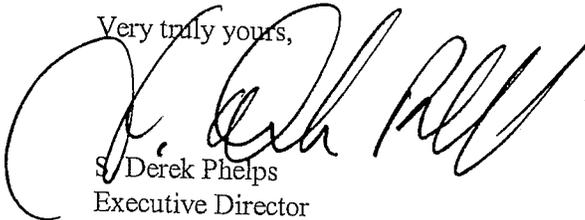
Dear Mr. Balestracci:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by December 22, 2008.

Thank you for your cooperation and consideration.

Very truly yours,



S/ Derek Phelps
Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Regina Reid, Zoning Enforcement Officer, Town of Guilford