



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@po.state.ct.us

www.ct.gov/csc

June 12, 2006

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

RE: **EM-CING-004-060517** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 277 Huckleberry Hill Road, Avon, Connecticut.

Dear Mr. Levine:

At a public meeting held on June 7, 2006, the Connecticut Siting Council (Council) acknowledged 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 May 17, 2006, 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,

Pamela B. Katz, P.E.

Chairman

PBK/laf

- c: The Honorable Richard W. Hines, Chairman Town Council, Town of Avon
Steven V. Kushner, Town Planner, Town of Avon
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
Christopher B. Fisher, Esq., Cuddy & Feder LLP



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

May 17, 2006

EM-CING-004-060517

RECEIVED
MAY 17 2006

CONNECTICUT
SITING COUNCIL

Ms. Pam Katz, Chairman, and
Members of the Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

**Notice of Exempt Modification – Existing Sprint Telecommunications Tower Facility at 277
Huckleberry Hill Road, Avon, Connecticut**

Dear Chairman Katz and Members of the Council:

New Cingular Wireless PCS, LLC (“Cingular”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower facility off Huckleberry Hill Road in Avon, Connecticut. Cingular operates under licenses issued by the Federal Communications Commission (“FCC”) to provide cellular and PCS mobile telephone service in Hartford County, which includes the area to be served by Cingular’s proposed installation.

Please accept this letter as notification to the Council, 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 is being sent to the Town Manager of Avon.

Existing Facility

The facility is located at the Town of Avon Landfill at 277 Huckleberry Hill Road. The tower, which lies approximately ½ mile east of CT Route 179, near its fork with CT Route 4, is at coordinates (NAD 83) N 41° 47’ 17” and W 72° 55’ 05”.

The facility is owned and operated by Sprint Sites USA (“Sprint”), with offices at 1 International Blvd, Suite 800, Mahwah, NJ 07495. Sprint leases the land from the Town of Avon.

The Avon facility was initially approved as Council Docket No. 297 on January 24, 2005.

The Huckleberry Hill Road facility consists of a 100-ft laminated wood tower within a 40’ x 40’

fenced compound. At present, only Sprint operates wireless communications equipment at the facility.

Proposed Modifications

As shown on the attached drawings and as further described below, Cingular proposes to install three Powerwave 7770 antennas, or their functional equivalents at a centerline height of 90 feet above ground level. Cingular also proposes to place an 11' 6" x 20' equipment shelter at the base of the tower in the existing compound.

Attached to this Notice are a site location map, a site plan, a tower profile, and a structural analysis report that shows the tower is structurally capable of supporting the proposed Cingular telecommunications equipment.

Statutory Considerations

The changes to the Avon tower facility do not constitute a modification 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) because they will not result in any substantial adverse environmental effect.

1. The height of the overall structure will be unaffected.
2. The proposed changes will not affect the property boundaries. All new construction will take place on property leased by Sprint and within the existing fence.
3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.
4. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower in relation to the operation of the currently proposed antenna array is as follows:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Sprint *	100	1962.5	11	235	0.0929	1.0000	9.29
Cingular	90	880 - 894	6	296	0.0788	0.5867	13.44
Cingular	90	1930 - 1935	3	427	0.0569	1.0000	5.69
Total							28.42%

* Power density parameters from Siting Council records in Docket No. 297.

† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 28.5 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from Cingular's use of the tower facility would thus be within applicable standards.

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

Please feel free to call me at (860) 513-7636 or Christopher Fisher, Esq. at (914) 761-1300 with questions concerning this notice. Thank you for your consideration in this matter.

Respectfully yours,

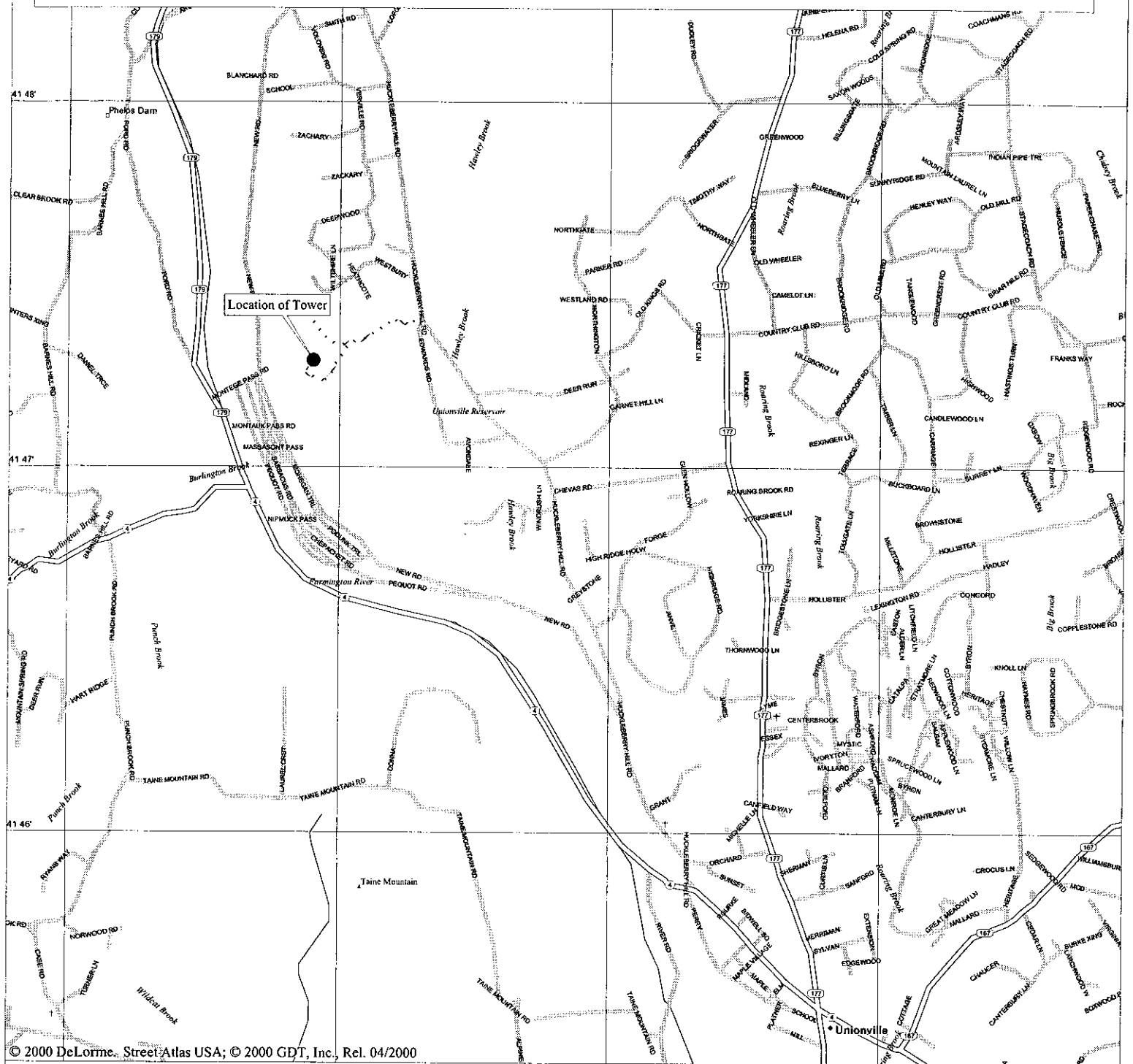
A handwritten signature in blue ink, appearing to read 'S. Levine'.

Steven Levine
Real Estate Consultant

Enclosures

cc: Honorable Philip K. Schenck, Jr., Town Manager, Town of Avon
Michele G. Briggs, Manager of Real Estate
Christopher B. Fisher, Esq.

Avon - Huckleberry Road



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Mag 15.00

Tue May 16 14:26 2006







Scale 1:28,125 (at center)

2000 Feet



1000 Meters



-  Local Road
-  Trail
-  State Route
-  Point of Interest
-  Small Town
-  Summit
-  Cemetery
-  Water

River/Canal



EXISTING SPRINT PCS
ICE BRIDGE

EXISTING SPRINT PCS
EQUIPMENT MOUNTED
ON CONCRETE PAD

EXISTING MUTIMETER
CENTER MOUNTED ON
UTILITY SERVICE
BACKBOARD

EXISTING TELCO
ENCLOSURE MOUNTED
ON UTILITY SERVICE
BACKBOARD

EXISTING 12' WIDE
GRAVEL ACCESS DRIVE

EXISTING 100'-0"
WOOD LAMINATE POLE

FUTURE ICE BRIDGE

PROPOSED CINGULAR
WIRELESS ICE BRIDGE

PROPOSED CINGULAR
WIRELESS GPS ANTENNA

PROPOSED 11'-6"x20'-0"
CINGULAR EQUIPMENT SHELTER

FUTURE EQUIPMENT
SHELTER

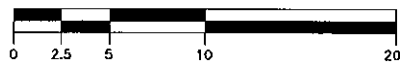
EXISTING 8'-0" HIGH
CHAIN LINK FENCE

FUTURE GENERATOR

EXISTING 40'x40' COMPOUND
WITH GRAVEL TREATMENT.

EXISTING 12'-0" WIDE
DOUBLE LEAF GATE

1 ALTERNATE COMPOUND PLAN
L-1A SCALE: 1" = 10'-0"



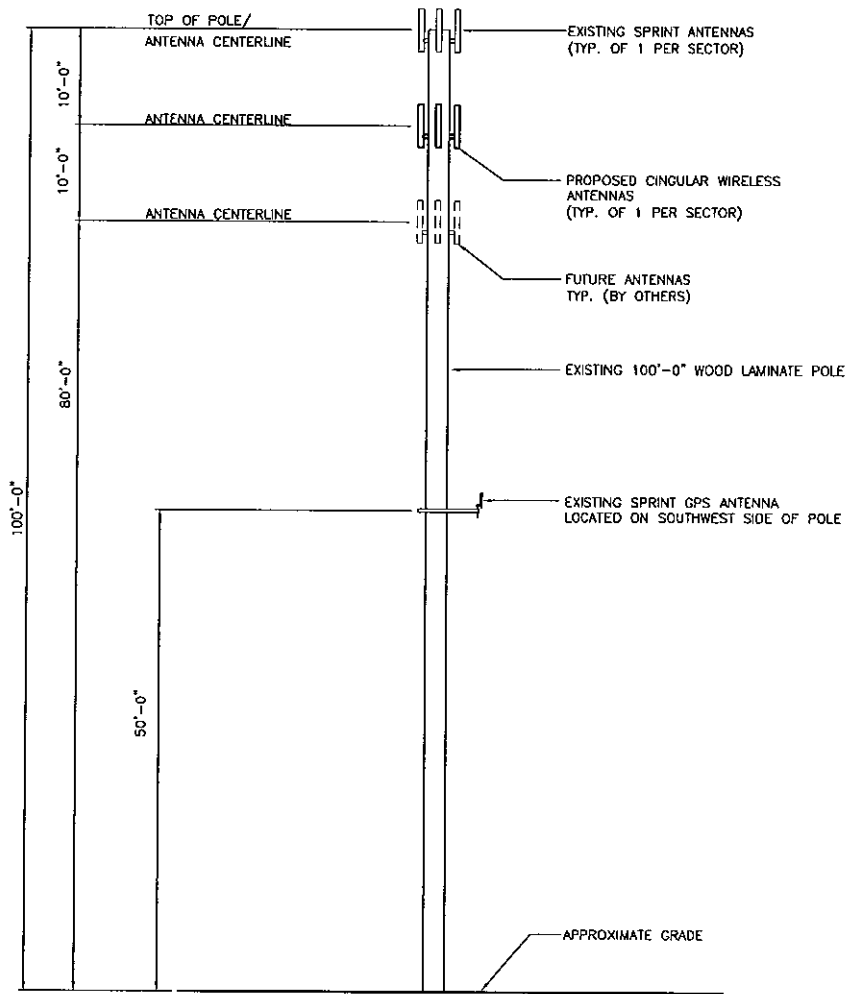
PROJECT NO.
36921835
Designed by:
Drawn by: TM
Checked by:
Approved by:

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

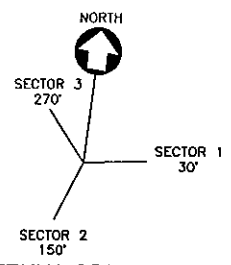
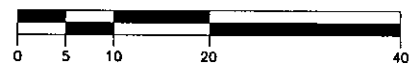
cingular
WIRELESS
WIRELESS COMMUNICATIONS FACILITY
LANDFILL
HUCKLEBERRY HILL
AVON, CONNECTICUT
SITE ADDRESS:

REV.	DATE:	DESCRIPTION
Scale: AS NOTED	Date: 03-27-06	
Job No. CW1 071	File No.	

Dwg. No.
L-1A
Dwg. 1 of 3



1 TOWER ELEVATION
L-2 SCALE: 1" = 20'-0"



ANTENNA ORIENTATION KEY

PROJECT NO.
36921835
Designed by:
Drawn by: TM
Checked by:
Approved by:

URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

cingular
WIRELESS
WIRELESS COMMUNICATIONS FACILITY

SITE ADDRESS:
LANDFILL
HUCKLEBERRY HILL
AVON, CONNECTICUT

REV.	DATE	DESCRIPTION

Scale: AS NOTED Date: 03-27-06
Job No. CW1 071 File No.

Dwg. No.
L-2
Dwg. 2 of 3

1079 N. 204th Avenue
Elkhorn, NE 68022
Ph: 402-289-1888
Fax: 402-289-1861

SEMAAN ENGINEERING SOLUTIONS

**100 ft ELAM Laminated Wood Monopole
Structural Analysis**

**Prepared for:
Sprint Sites USA
1 International Blvd
Mahwah, NJ 07645**

**Site: CT33XC589
Cingular
Avon, CT**



May 15, 2006

Ms. Andrea Gustafson
Sprint Sites USA
1 International Blvd
Mahwah, NJ 07645

Re: Site Number CT33XC589 – Avon, CT.

Dear Ms Gustafson:

We have completed the structural analysis for the existing monopole, located at the above referenced site. The purpose of this analysis is to determine that the existing monopole design is in conformance with the TIA/EIA Rev F standard and local building codes for the proposed antennae loads installation. Refer to the Review and Recommendations section at the end of this report for the analysis results.

Description of Structure:

The structure is a 100 ft ELAM laminated wood Monopole.

Refer to ELAM drawing SPSM-0079.06A1 Rev 3 dated July 29, 2005 for a detailed description of the structure.

Method of analysis:

The tower was analyzed using Semaan Engineering Solutions' software suite for communication structures. The structural analysis is performed using the SAPS finite element engine. The method is 3D, non-linear, which accounts for the second order geometric effects due to the displacements. It also treats guys as exact cable elements and therefore is ideal for guyed towers. The analysis was performed in conformance with **TIA/EIA Rev F and local building codes for a basic wind speed of 80 mph and 1/2" radial ice with reduced wind speed (fastest mile)**. This wind speed is equivalent to a 100 mph 3-second gust wind speed. This is in conformance with the IBC 2003: Section 1609.1.1, Exception (5) and Section 3108.4. Wind is applied to the structure, accessories and antennas.

Structure loading:

The following loads were used in the tower analysis:

Elev (ft)	Qty	Antennas	Mounts	Coax	Carrier
100.0	3	RR90-17-00DP	Flush mounts	(12) 1 5/8"	Sprint
80.0	3	ADFD0920-6565B-0DM	Flush mounts	(6) 1-5/8	Verizon

Proposed Loads:

Elev (ft)	Qty	Antennas	Mounts	Coax	Carrier
90.0	3	Powerwave 7770	Flush mounts	(12) 1-5/8	Cingular

All new access holes shall be reinforced with welded rims that are compatible with the pole and to be sized and supplied by pole manufacturer.

All transmission lines are assumed running outside of pole shaft with a maximum of (4) lines exposed to the wind beyond the width of the pole..

Results of Analysis:

Refer to the attached Computer Summary sheets for detailed analysis results.

Structure:

The existing monopole is structurally capable of supporting the existing and proposed antennas. The maximum structure usage is: 103.7%. The 3.7% overstress is within allowable engineering tolerances.

Foundation:

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	724.60	757.4	104.5

The reactions calculated from the analysis exceed the ones indicated on the original structural design. However, upon reviewing the foundation documents, they were found to be adequate and therefore the foundation will not require modification.

Review and Recommendations:

Based on the analysis results, the existing structure meets the requirements per the TIA/EIA Rev F standards for a basic wind speed of 80 mph and 1/2" radial ice with reduced wind speed.

Wood Pole Spreadsheet (no ice)

Site # CT33XC589
 Address 227 Huckleberry St., Avon, CT
 Pole class =

Pole Parameters

Width (trans) (in) = 26.25
 Top Depth (long) (in) = 12
 Bottom Depth (long) (in) = 30.25
 AGL Height (ft) = 100
 BGL Embed (ft) = 17.5
 Wood Species =
 $S_{bot} (trans) (in^3) =$ 4003.4
 $S_{bot} (long) (in^3) =$ 3474.0

Wind Loads

wind pressure (psf) = $41.54 (80/85)^2 \times 46.9 = 41.54$ for 80 mph

Item	area (sf)	CL elev (ft)	force (lbs)	moment (ft-lbs)
Pole (long)	176.04	42.80	7313	312992
Pole (trans)	218.75	50.00	9087	454344
Sprint (3x5.23/1.4)	11.21	100.00	466	46566
Cingular ((3x5.88+6x.95)/1.4)	16.67	90.00	692	62322
Nextel (3x7.83/1.4)	16.78	80.00	697	55763
Coax (4 1-5/8 exposed)	66.66	50.00	2769	138453

Total (long) = **11937** **616097**

Total (trans) = **13711** **757449**

$f_b (long) (psi) =$ 2128

$f_b (trans) (psi) =$ 2270

Allow. Long. Bend. Stress (psi) = 2053 103.7%

Allow. Trans. Bend Stress (psi) = 2500 90.8%

Site: CT33XC589

M (ft-lbs) =	757449
V (lbs) =	13711.0
h (ft) =	55.24
Allow. Lateral brg. Pressure (psf) =	400
Embedment depth (ft) =	17.50
S_1 =	2333
b (ft) =	5.00
A =	2.75
Min. embed depth (ft) =	15.62



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

May 17, 2006

Honorable Philip K. Schenck, Jr.
Town Manager, Town of Avon
Town Hall, 60 West Main Street
Avon, Connecticut 06001

**Re: Notice of Exempt Modification – Existing Sprint Telecommunications Tower Facility
at 277 Huckleberry Hill Road, Avon, Connecticut**

Dear Mr. Schenck:

New Cingular Wireless PCS, LLC (“Cingular”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 277 Huckleberry Hill Road in Avon, Connecticut. This property is home to the Avon Landfill.

The facility is owned and operated by Sprint Sites USA (“Sprint”), with offices at 1 International Blvd, Suite 800, Mahwah, NJ 07495. Sprint leases the land from the Town of Avon.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73. Please accept this letter as notification to the Town of Avon 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 attached letter fully sets forth the Cingular proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council’s procedures, please contact the undersigned or Mr. Derek Phelps, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Steven Levine
Real Estate Consultant

Enclosure



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@po.state.ct.us

www.ct.gov/csc

May 31, 2006

The Honorable Richard W. Hines
Chairman Town Council
Town of Avon
60 West Main Street
Avon, CT 06001-3743

RE: **EM-CING-004-060517** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 277 Huckleberry Hill Road, Avon, Connecticut.

Dear Mr. Hines:

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.

The Council will consider this item at the next meeting scheduled for June 7, 2006 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by June 6, 2006.

Thank you for your cooperation and consideration.

Very truly yours

S. Derek Phelps
Executive Director

SDP/ap

Enclosure: Notice of Intent

c: Steven V. Kushner, Town Planner, Town of Avon
Philip K. Schenck, Jr., Town Manager, Town of Avon