



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

December 24, 2002

Peter W. van Wilgen  
Southwestern Bell Mobile Systems, LLC  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

RE: **EM-CING-042-083-090-118-021113** - Southwestern Bell Mobile Systems LLC d/b/a Cingular Wireless notice of intent to modify existing telecommunications facilities located in East Hampton, Middletown, New Canaan, and Ridgefield, Connecticut.

Dear Mr. van Wilgen:


At a public meeting held on December 19, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify the existing Ridgefield telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies. The East Hampton, Middletown and New Canaan sites were previously acknowledged on November 21, 2002.

The proposed modifications are to be implemented as specified here and in your notices dated November 15, 2002 and November 26, 2002. 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. 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,

  
Mortimer A. Gelston  
Chairman

MAG/DM/laf

c: Honorable Rudolph P. Marconi, First Selectman, Town of Ridgefield  
Oswald Inglese, Town Planner, Town of Ridgefield



FACSIMILE TRANSMITTAL SHEET

TO: DAVE MARTIN FROM: STEVE LEVINE  
 COMPANY: CSC DATE: 11-26-02  
 FAX NUMBER: 827-2950 TOTAL NO. OF PAGES INCLUDING COVER: 2  
 PHONE NUMBER: \_\_\_\_\_ SENDER'S REFERENCE NUMBER: \_\_\_\_\_  
 RE: \_\_\_\_\_ YOUR REFERENCE NUMBER: \_\_\_\_\_

URGENT  FOR REVIEW  PLEASE COMMENT  PLEASE REPLY  PLEASE RECYCLE

NOTES/COMMENTS:

RIDGEFIELD STRUCTURAL  
 EM - CING - 118 - 021113 (TABLED FOR STRUCTURAL)

Thanks.  
 - Steve



# SpectraSite

RE: CT-0053 [Ridgefield]  
Structural Evaluation of 66' Wood Pole  
10 Catoonah Street  
Ridgefield, CT 06877  
Fairfield County

Date: November 25, 2002

SpectraSite Engineering has performed a *Level 1 evaluation*<sup>1</sup> for the above-noted tower. The evaluation was based on the requirements of the TIA/EIA-222-F Standard for a basic wind speed of 85 mph without ice and 75% of the wind load with 1/2" radial ice.

Table 1. Existing and Proposed Antennas

ELEVATION (Ft-AGL)	ANTENNA	CARRIER	COAX*	NOTES
72	(2) Decibel ASP-973 w/ Standoff Mounts	Cingular	(2) 7/8"	Existing
58	(3) EMS RS90-12-00A2 w/ Flush Mounts	Cingular	(9) 7/8"	Proposed

\*Coax flush mounted to outside of pole.

The subject tower and foundation are *adequate* to support the above stated loads and *in conformance* with the requirements of TIA/EIA-222-F Standard.

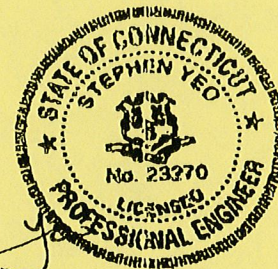
The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

Should any questions arise concerning this report please contact the undersigned.

Ashley Miller  
Engineering Associate  
(919) 466-5527

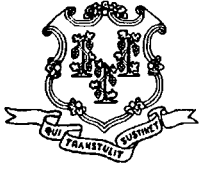
11-25-2002

Stephen Yeo, P.E.  
Structural Design Manager



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Connecticut.

<sup>1</sup> Level 1 evaluation means:  
• the applied (existing and proposed) loads (Table 1) on the tower are compared to the original design loads,  
• the design wind criteria is compared to the recent code requirements.



# 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](mailto:siting.council@po.state.ct.us)

Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

November 22, 2002

Peter W. van Wilgen  
Southwestern Bell Mobile Systems, LLC  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

RE: EM-CING-042-083-090-118-021113 - Southwestern Bell Mobile Systems LLC d/b/a Cingular Wireless notice of intent to modify existing telecommunications facilities located in East Hampton, Middletown, New Canaan, and Ridgefield, Connecticut.

Dear Mr. van Wilgen:

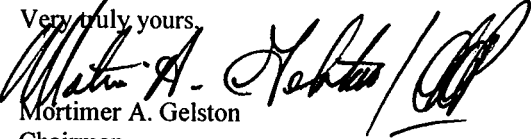
At a public meeting held on November 21, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify three of the four existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies. The East Hampton acknowledgement is conditioned on the foundation be reinforced in accordance with the recommendations of the URS engineering report dated November 11, 2002. The Ridgefield site has been tabled and will be presented at a future Council meeting when a structural analysis has been received.

The proposed modifications are to be implemented as specified here and in your notice dated November 13, 2002. 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 sites that would not increase tower heights, extend the boundaries of the tower site, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power density 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. Any additional change to 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.

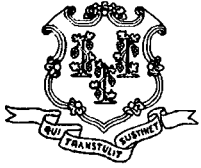
Very truly yours,

  
Mortimer A. Gelston  
Chairman

MAG/DM/laf

List Attachment

- c: Honorable Donald Markham, Chairman Town Council, Town of East Hampton
- Alan H. Bergren, Town Manager, Town of East Hampton
- James Carey, Zoning Enforcement Officer, Town of East Hampton
- Honorable Domenique S. Thornton, Mayor, City of Middletown
- Planning and Zoning Official, City of Middletown
- Honorable Richard P. Bond, First Selectman, Town of New Canaan
- Hiram Peck III, Town Planner, Town of New Canaan
- Honorable Rudolph P. Marconi, First Selectman, Town of Ridgefield
- Oswald Inglese, Town Planner, Town of Ridgefield



# STATE OF CONNECTICUT

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Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

November 14, 2002

Honorable Rudolph P. Marconi  
First Selectman  
Town of Ridgefield  
400 Main Street  
Ridgefield, CT 06877

RE: **EM-CING-042-083-090-118-021113** - Southwestern Bell Mobile Systems LLC d/b/a Cingular  
Wireless notice of intent to modify existing telecommunications facilities located in East  
Hampton, Middletown, New Canaan, and Ridgefield, Connecticut.

Dear Mr. Marconi:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to  
Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting tentatively scheduled for November 21, 2002, at  
1:30 p.m., in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps  
Executive Director

SDP/slm

Enclosure: Notice of Intent

c: Oswald Inglese, Town Planner, Town of Ridgefield

EM-CING-042-083-090-118-021113



Southwestern Bell Mobile Systems, LLC  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7730  
Fax: (860) 513-7190

Peter W. van Wilgen  
Senior Manager - Construction

HAND DELIVERED

November 13, 2002

**RECEIVED**  
NOV 13 2002  
CONNECTICUT  
SITING COUNCIL

Mr. Mortimer A. Gelston, Chairman  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: Southwestern Bell Mobile Systems, LLC notice of intent to modify existing telecommunications facilities located in East Hampton, Middletown, New Canaan, and Ridgefield; with structural updates for North Haven (EM-CING-101-020925); Wolcott (EM-CING-166-020730); New Milford (EM-CING-096-020730); Middlebury (EM-CING-081-020930); and Prospect (EM-CING-115-020828).

Dear Mr. Gelston:

In order to accommodate technological changes, implement E-911 capability and enhance system performance, Southwestern Bell Mobile Systems, LLC ("SNET" or "Cingular Wireless"; formerly SNET Mobility, LLC) plans to modify the antenna configurations at 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 located.

Attached are summary sheets detailing the planned changes, including power density calculations reflecting the change in the effect of Cingular's operations at each 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. The height of the overall structure will be unaffected. At almost all sites, new panel antennas approximately the same size will replace those previously installed. Tower mount amplifiers, approximately 5" x 9" x 13", will be added to the platform on which the panel antennas are mounted to enhance signal reception at the cell site. In addition, the mandated provision of E-911 capability *may* require installation of one LMU ("location measurement unit"), approximately nine inches high, on either the tower, the equipment shelter, or the ice bridge. At this writing, however, it appears that the new panel antennas will serve this purpose as well. One GPS receive-only antenna will be attached to the equipment shelter at each site. None of the 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.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. Radio frequency power density will increase due to use of additional channels broadcasting at higher power. 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) 513-7730 with questions concerning this matter. Thank you for your consideration.

Sincerely,

Handwritten signature of Peter W. van Wilgen in cursive, with a slash and the initials 'SW' at the end.

Peter W. van Wilgen  
Senior Manager - Construction

Enclosures



**CINGULAR WIRELESS  
Antenna Modification**

10 Catoonah Street, Ridgefield  
Exempt Mod. approved 8/30/94

**Tower Owner/Manager:** Spectrasite

**Antenna configuration** Antenna center lines - see below

**Current and/or approved:** Two 14-ft ASPD973 Whip Antennas at 72 ft c.l.

**Planned:** Two 14-ft ASPD973 Whip Antennas at 72 ft c.l.  
3 EMS RS90-12-00A2 panels at 58 ft c.l.  
Fairfield County – no tower mount amplifiers, etc.

**Power Density:**

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 11.8 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 28.0 %, or an additional 16.2 % of the standard.

**Cingular Current**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Cingular TDMA	72	880 - 894	10	100	0.0694	0.5867	11.8

**Cingular Planned**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Cingular TDMA	72	880 - 894	10	100	0.0694	0.5867	11.8
Cingular GSM	58	880 - 894	3	296	0.0949	0.5867	16.2
<b>Total</b>							<b>28.0%</b>

**Structural information:**

SBMS will submit a favorable structural analysis of the monopole prior to mounting the panel antennas.



**Southwestern Bell Mobile Systems, LLC**  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7730  
Fax: (860) 513-7190

**Peter W. van Wilgen**  
*Senior Manager - Construction*

November 13, 2002

Hon. Rudolph P. Marconi  
1<sup>st</sup> Selectman, Town of Ridgefield  
Town Hall, 400 Main St.,  
Ridgefield, Connecticut 06877

Re: Telecommunications facility – 10 Catoonah Street

Dear Mr. Marconi:

In order to meet the requirements for improved E-911 capability and to implement a more advanced telecommunications system, Southwestern Bell Mobile Systems, LLC, a/k/a Cingular Wireless ("SBMS" or "Cingular"; formerly SNET Mobility, LLC) will be changing its antenna configuration at certain cell sites. Cingular will install panel antennas on the tower in addition to the existing whip antennas. 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 fully describes Cingular's proposal. 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) 513-7730 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Peter W. van Wilgen  
Senior Manager – Construction

Enclosure

SOUTHWESTERN BELL MOBILE  
SYSTEMS, LLC d/b/a CINGULAR  
WIRELESS

EM-CING-042-083-090-118-021113

*(65 Midwood Farm Road, East Hampton;  
290 Preston Avenue, Middletown;  
135 Main Street New Canaan;  
and  
10 Catoonah Street, Rigdefield.)*