

# 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-096-020730 (a/k/a EM-CING-068-096-098-020730)** - Southwestern Bell Mobile Systems LLC d/b/a Cingular Wireless notice of intent to modify an existing telecommunications facility located at 4 Elkington Farm Road, New Milford, Connecticut.

Dear Mr. van Wilgen:

At a public meeting held on November 21, 2002, the Connecticut Siting Council (Council) acknowledged your revision to the previously submitted regulatory exemption to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed revisions to the original modification are to be implemented as specified here and in your notice dated November 13, 2002. The revision to the original modification is 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,

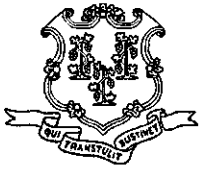


Mortimer A. Gelston

Chairman

MAG/laf

c: Honorable Robert B. Gambino, Mayor, Town of New Milford  
David N. Hubbard, Planning and Econ. Director, Town of New Milford



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November 15, 2002

Honorable Robert B. Gambino  
Mayor  
Town of New Milford  
Town Hall  
10 Main Street  
New Milford, CT 06776

RE: **EM-CING-096-020730** - Southwestern Bell Mobile Systems LLC d/b/a Cingular Wireless notice of intent to modify existing telecommunications facilities located at 4 Elkington Farm Road, New Milford, Connecticut.

Dear Mayor Gambino:

The Connecticut Siting Council (Council) received this follow-up structural analysis, pursuant to the conditional approvals in connection with Cingular's GSM upgrades.

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: David N. Hubbard, Planning & Econ. Director, Town of New Milford

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

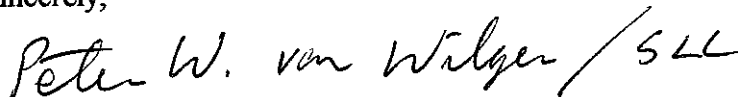
facilities fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

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, with initials "SLL" written at the end of the signature.

Peter W. van Wilgen  
Senior Manager - Construction

Enclosures



Southwestern Bell Mobile Systems, LLC  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7636  
Fax: (860) 513-7190

Steven L. Levine  
*Real Estate Consultant*

### **Follow-up Structural Analyses Per Conditional Approvals**

During the preceding months, the Council has given conditional approval to a number of exempt modification notices in connection with Cingular's GSM upgrade project. The Council has required certification of specified tower tests and/or repairs having been made prior to installation of Cingular's new equipment in some instances. This letter addresses the resolution of several of these conditions.

- Cingular is electing in some cases to reduce proposed tower loading to the extent that existing towers will support the load without strengthening. Confirmations in the form of new tower analyses are attached hereto. The reduced loads will have no effect, however, on power densities or other parameters.
- In other cases, the tower owner/manager has determined that Cingular's relatively minor modifications will not by themselves cause a tower to be overloaded. Confirmations in the form of new tower analyses are attached hereto. These are instances where multiple carriers have future co-location plans for the same tower and all were included in the original analysis. Where appropriate, the tower owner/manager has eliminated proposed modifications by other carriers from the analyses where: 1) the other carriers' proposed modifications are sufficient, by themselves, to cause overloading; 2) the other carriers are not as far advanced in their projects as Cingular and have no critical need to proceed immediately; and 3) the owner/manager has committed to upgrading the tower for the other carriers.
- Other miscellaneous requirements of the Council that have been satisfied are also listed below.

Attached are passing structural reports for the following towers:

1. 15 Dwight Street, North Haven - EM-CING-101-020925

Cingular's plans have been modified so that only six CSS antennas will be installed in the first of two phases. All of the existing antennas will be removed at this time. The tower

passes structural analysis with only 6 CSS antennas, and Cingular will proceed with their installation. Structural re-enforcement is still required for the additional 4 antennas, and Cingular will certify completion of repairs prior to installation of these antennas.

2. 347 East Street, Wolcott - EM-CING-166-020730

Tower passes structural analysis without modification after elimination of AT&T antennas included in original analysis. Per Crown Atlantic, Cingular's modifications can go forward without tower repairs as they are relatively insignificant in terms of tower loading and do not in themselves cause overstressed conditions. AT&T, on the other hand, has not decided whether to proceed with this co-location project and has not sought approvals. Tower modification would be necessary only if AT&T decides to proceed at some later date.

3. 4 Elkington Farm Road, New Milford - EM-CING-096-020730

Tower passes structural analysis without strengthening after elimination of Nextel and Verizon antennas included in original analysis. Per Spectrasite, Cingular's modifications can go forward without tower repairs as they are relatively insignificant in terms of tower loading and do not in themselves cause overstressed conditions. The tower will be strengthened by Spectrasite prior to installation of the Nextel and Verizon equipment.

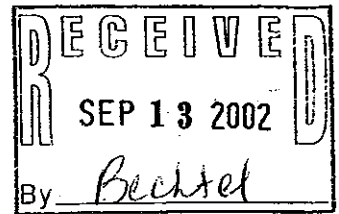
4. 2 Larkin Drive, Middlebury - EM-CING-081-020930 (note: Not 083)

Tower passes structural analysis without strengthening after elimination of unspecified "future" antennas included in original analysis (i.e., 115 ft and 143 ft).

5. Prospect, CT (Bradshaw) - EM-CING-115-020828

Per instructions of the Council, the guy wires have been examined and were found to be in good condition.

Please feel free to call Steve Levine at (860) 513-7730 with questions concerning this matter. Thank you for your consideration.



SpectraSite #2155

RE: CT-0059 [New Milford]
Structural Evaluation of 150' TTT Meyer Monopole
4 Elkington Farm Road
New Milford, CT 06776
Litchfield County

Date: September 6, 2002

SpectraSite Engineering has performed a Level 1 evaluation 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 80 mph without ice and 75% of the wind load with 1/2" radial ice.

Table 1. Existing and Proposed Antennas

Table with 5 columns: ELEVATION (Ft-AGL), ANTENNA, CARRIER, COAX\*, and NOTES. It lists various antenna configurations and their status (Existing, Proposed, or Replacement).

\*Coax to be distributed evenly among faces.

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.

Please contact the undersigned should any questions arise.

Signature of Jason R. Manners, E.I.
Jason R. Manners, E.I.
Engineering Associate
919/466-4833

Professional Engineer seal for Calvin J. Payne, No. 21060, dated 09-09-2002.
Signature of Calvin J. Payne, P.E.
Calvin J. Payne, P.E.
Chief Engineer

1 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.