



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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

August 8, 2002

Peter W. van Wilgen  
SNET Mobility, LLC  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

RE: **EM-CING-054-079-028-121-104-073-109-058-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Colchester, Glastonbury, Griswold, Lisbon, Marlborough, Norwich, Plainfield, and Salem, Connecticut.

Dear Mr. van Wilgen:

At a public meeting held on August 1, 2002, 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 2, 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/laf

c: See attached list.

List Attachment.

- c: Honorable Jenny Contois, First Selectman, Town of Colchester
- Liz Rasmussen, Zoning Enforcement Officer, Town of Colchester
- Honorable Walter Cussan, Town Council Chairman, Town of Glastonbury
- Richard J. Johnson, Town Manager, Town of Glastonbury
- Kenith Leslie, Town Planner, Town of Glastonbury
- Honorable Paul J. Brycki, First Selectman, Town of Griswold
- Mario Tristany, Town Planner, Town of Griswold
- Honorable Thomas W. Sparkman, First Selectman, Town of Lisbon
- Planning and Zoning Official, Town of Lisbon
- Honorable Howard T. Dean, Jr., First Selectman, Town of Marlborough
- Peter F. Hughes, Zoning Enforcement Officer, Town of Marlborough
- Honorable Arthur Lester Lathrop, Mayor, City of Norwich
- Peter Davis, Town Planner, City of Norwich
- William G. Tallman, City Manager, City of Norwich
- Honorable David C. Allard, First Selectman, Town of Plainfield
- Planning and Zoning Official, Town of Plainfield
- Honorable Peter F. Sielman, First Selectman, Town of Salem
- Heidi Samokar, Town Planner, Town of Salem



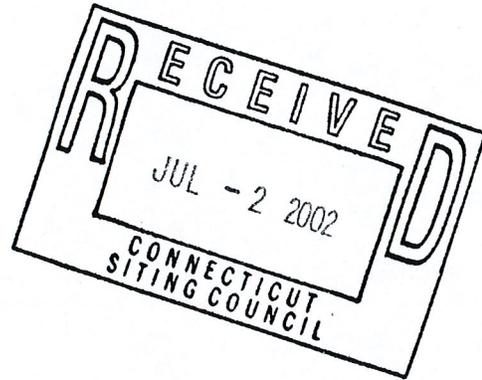
SNET Mobility, LLC  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7730  
Fax: (860) 513-7190

Peter W. van Wilgen  
Senior Manager – Construction

HAND DELIVERED

July 2, 2002

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



Re: SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Glastonbury, Marlborough, Colchester, Salem, Norwich, Lisbon, Plainfield and Griswold

Dear Mr. Gelston:

In order to accommodate technological changes, implement E-911 capability and enhance system performance, SNET Mobility, LLC ("SNET" or "Cingular Wireless") 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).

Mr. Mortimer A. Gelston

July 2, 2002

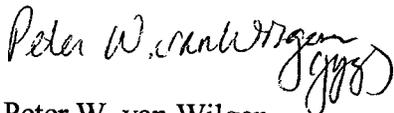
Page 2

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 will require installation of one LMU ("location measurement unit"), approximately 5 inches high, on either the tower, the equipment shelter or the ice bridge. 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,



Peter W. van Wilgen  
Senior Manager - Construction

Enclosures

**CINGULAR WIRELESS**  
**Antenna Modification**

**Site Address:** 20 Mel Road, Lisbon  
Docket No. 124

**Tower Owner/Manager:** Springwich Cellular Limited Partnership;  
managed by SpectraSite Communications, Inc.

**Antenna configuration** Antenna center line – 187'

**Current and/or approved:** 12 ALP 110 11 or comparable

**Planned:** 9 DUO4-8670 or comparable  
6 tower mount amplifiers  
1 LMU (at 46.5')

**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 3.3% 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 4.7%, or an additional 1.4% 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
SNET	187	880 - 894	19	100	0.0195	0.5867	3.3

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
SNET TDMA	187	880 - 894	16	100	0.0165	0.5867	2.8
SNET GSM	187	880 - 894	2	296	0.0061	0.5867	1.0
SNET GSM	187	1930 - 1935	2	427	0.0088	1.0000	0.9
<b>Total</b>							<b>4.7%</b>

**Structural information:** Please see attached.



RE: CT-0039 [Lisbon]  
 Structural Evaluation of 186' Monopole  
 20 Mel Road  
 Lisbon, CT 06351  
 New London County

Date: May 22, 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 TIA/EIA-222-F Standards 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

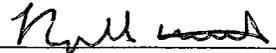
ELEVATION (Ft-AGL)	ANTENNA	CARRIER	COAX*	NOTES
192 189 187	(1) 6' Omni (1) 2' Yagi (9) Swedcom ALP11011 on Platform Mount with Handrails	Cingular	(1) TBD (1) TBD (9) 1-1/4"	Remove Existing
192 189 187 187	(1) 6' Omni (1) 2' Yagi (9) CSS DUO4-8670 (6) CSS ADC Amplifiers on Platform Mount with Handrails	Cingular	(1) TBD (1) TBD (9) 1-1/4"	Proposed Replacement
46.5	(1) Nokia CS72187-01 on Standoff Mount	Cingular	(1) 1/2"	Proposed

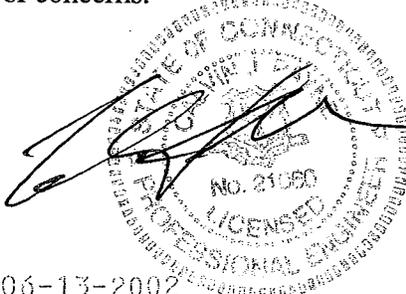
\*Coax installed inside monopole.

The subject tower, and it's 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 do not hesitate to give me a call if you have any questions or concerns.

  
 Raphael Mohamed, P. Eng.  
 Project Engineer

  
 06-13-2002  
 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.