EM-CING-001-032-129-134-142-146-160-020718



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 18, 2002

CONNECTION OF THE PROPERTY OF

SITING COUNCIL

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

Re: <u>SNET Mobility, LLC notice of intent to modify existing telecommunications facilities</u> located in <u>Andover, Coventry, Somers, Stafford Springs, Tolland, Vernon and Willington</u>

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).

- 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

Peter W. van Wil

Senior Manager - Construction

Enclosures

CINGULAR WIRELESS Antenna Modification

Site Address:

Bunker Hill Road, Andover

exempt modification 3/21/01

Tower Owner/Manager:

SpectraSite Communications, Inc.

Antenna configuration

Antenna center line - 137'

Current and/or approved: 12 DB846H80 or comparable

Planned:

9 CSS DUO4-8670 or comparable

6 tower mount amplifiers

1 LMU (at 44.5')

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 6.2% 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 8.8%, or an additional 2.6% of the standard.

Cingular Current

Сотрану	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm²)	Standard Limits (mW/cm²)	Percent of Limit
SNET	137	880 - 894	19	100	0.0364	0.5867	6.2

Cingular Planned

Сотрану	Centerline Hi (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm²)	Standard Limits (mW/cm²)	Percent of Limit
SNET TDMA	137	880 - 894	16	100	0.0307	0.5867	5.2
SNET CSM	137	880 - 894	2	296	0.0113	0.5867	1.9
SNET GSM	137	1930 - 1935	2	427	0.0164	1.0000	1.6
Total				20 2 3 4 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6			8.8%

Structural information:

Please see attached.



RE:

CT-0008 [Andover-Bunker Hill Road]

Structural Evaluation of 178' Summit Monopole

104 Bunker Hill Road Andover, CT 06232 Tolland County Date: May 14, 2002

SpectraSite Engineering has performed a *Level 1 evaluation*¹ 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 ½ radial ice.

Table 1. Existing and Proposed Antennas

ELEVATION (Ft-AGL)	ANTENNA	CARRIER	COAX*	NOTES
180	(12) Allgon 7120.16 on Low Profile Platform Mount	Nextel	(12) 1-1/4" [I]	Existing
169	(6) Decibel DB980H90 on Low Profile Platform Mount	Sprint	(6) 1-5/8" [I]	Existing
158	(12) Decibel DB844H90 on Low Profile Platform Mount	User	(12) 1-5/8" [I]	Existing
148	(4) Aligon 7250.02 (2) EMS/RR90417-02DP 44 - On Low Profile Platform Mount	Voicesfream	(12) L 5/8' III	Proposed
[69]	(12) Decibel DB8461(80) on Low Profile Plafform Mount	Cingular	: (12) 1-1/4) []	4. Removes Lxisting
187	(9) CSS DU(94-8670) (6) CSS ADC Amplifiers on Low Profile Platform Mount	(Gingular, 12	(12) 14 7472 []]	Proposed Replacement
Target 27 cm (Carlotter)	(6)/Allgon 7250 # jet on II-Arm Mounts	AT&T	(12):1474 (0):	Proposed
91 916 445 93 865 27 89 900 956	(1) Nokia CS72187 ()] on Standoff Mount 94	e Cingular	(I) (I)	Proposed

*[I] / [O] represents coax installed inside or outside the monopole, respectively.

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.

Raphael Mohamed, P. Eng.

Project Engineer

Calvin J. Payne, I Chief Engineer

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.