

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

Web Site: www.ct.gov/csc

February 4, 2004

Michele G. Briggs
Manager of Real Estate
Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-028-040123** - Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 29 Mahoney Road, Colchester, Connecticut.

Dear Ms. Briggs:

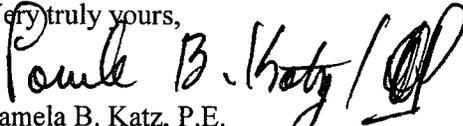
At a public meeting held on February 3, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated January 23, 2004. 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,



Pamela B. Katz, P.E.

Chairman

PBK/laf

- c: Honorable Jenny Contois, First Selectman, Town of Colchester
Mary Ann Sadosky, Zoning Enforcement Officer, Town of Colchester
Sheila R. Becker, Regional Director of Compliance, SBA, Inc.
Christopher B. Fisher, Esq., Cuddy & Feder LLP
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae LLP

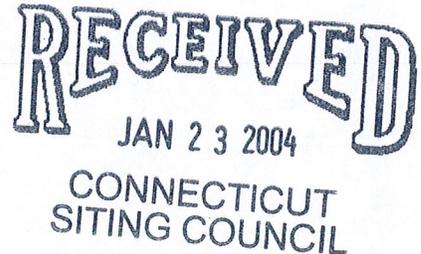
EM-CING-028-040123



Rocky Hill, Connecticut 06007-3200
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

January 23, 2004



Ms. Pam Katz, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

**Re: Notice of Exempt Modification – Existing SBA Properties, Inc.,
Telecommunications Tower Facility at 29 Mahoney Road, Colchester, Connecticut**

Dear Chairman Katz:

Southwestern Bell Mobile Systems, LLC (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 29 Mahoney Road in Colchester, Connecticut.

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 First Selectman of Colchester.

The facility is located on the south side of Connecticut Route 2, approximately 4 miles east of the Route 2 – Route 11 split. Access is from Chestnut Hill Rd – Mahoney Rd. Tower coordinates (NAD 83) are N 41° 33’ 52.5” and W 72° 15’ 05.2”. The facility is owned and operated by SBA Properties, Inc. (“SBA”), 5900 Broken Sound Parkway NW, Boca Raton, FL 33487. SBA leases the land from the Colchester Fish and Game Club.

SBMS, the local component of the nationwide Cingular Wireless network, is licensed by the Federal Communications Commission (“FCC”) to provide cellular mobile telephone service in the New London, CT Metropolitan Statistical Area, which includes the area to be served by SBMS’ proposed installation. The public need for cellular service has been predetermined by the FCC.

SBA is in agreement with plans put forth by SBMS pursuant to mutually acceptable terms and conditions and has also authorized SBMS to obtain necessary government approvals.

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

The Colchester Planning & Zoning Commission approved the SBA Mahoney Road facility prior to the November 2000 Covello decision concerning Council and Town jurisdiction for tower siting. The facility came under Council jurisdiction with AT&T's application to co-locate in EM-AT&T-028-020510, which was approved on May 21, 2002.

The Mahoney Road facility consists of a 180-foot monopole in an equipment compound measuring approximately 70 ft by 70 ft. The compound is surrounded by a chain link fence topped with barbed wire. T-Mobile operates panel antennas at the top of the tower (177 feet AGL) and has its equipment cabinets on the tower foundation. AT&T operates panel antennas at the 167 foot level and has its equipment cabinets on a concrete pad.

As shown on the attached drawings and as further described below, SBMS proposes to install up to twelve CSS DUO4-8670 panel antennas, approximately 48 inches in height, with the center of radiation approximately 157 feet above ground level. Associated equipment to be installed on the tower are up to six dual-band tower top amplifiers ("TTA's"; small metal boxes approximately 26 pounds apiece) immediately behind the antennas, and up to three very small (5 pounds apiece) CSS dual-band "combiners." SBMS also proposes to install a 12' x 20' equipment building at grade beside the tower. All work will be done inside the existing fenced compound.

With the GSM-only configuration, SBMS will broadcast up to:

- 2 channels, 296 Watts ERP, 880 – 894 MHz; and
- 2 channels, 427 Watts ERP, 1930 – 1935 MHz.

Statutory Considerations

The changes to the Colchester 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 SBA and within the existing fenced compound.
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
T-Mobile *	177	1960	16	250	0.0459	1.0000	4.59
AT&T *	167	1945	16	250	0.0516	1.0000	5.16
Cingular GSM	157	880 - 894	2	296	0.0086	0.5867	1.47
Cingular GSM	157	1930 - 1935	2	427	0.0125	1.0000	1.25
Total							12.47%

* Power density parameters taken from AT&T's application to the Council in EM-AT&T-028-020510.

† 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 12.5 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from SBMS' use of the tower facility would thus be within applicable standards.

For the foregoing reasons, SBMS respectfully submits that proposed changes to implement expanded shared use at the Colchester site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7700 with questions concerning this application. Thank you for your consideration in this matter.

Respectfully yours,

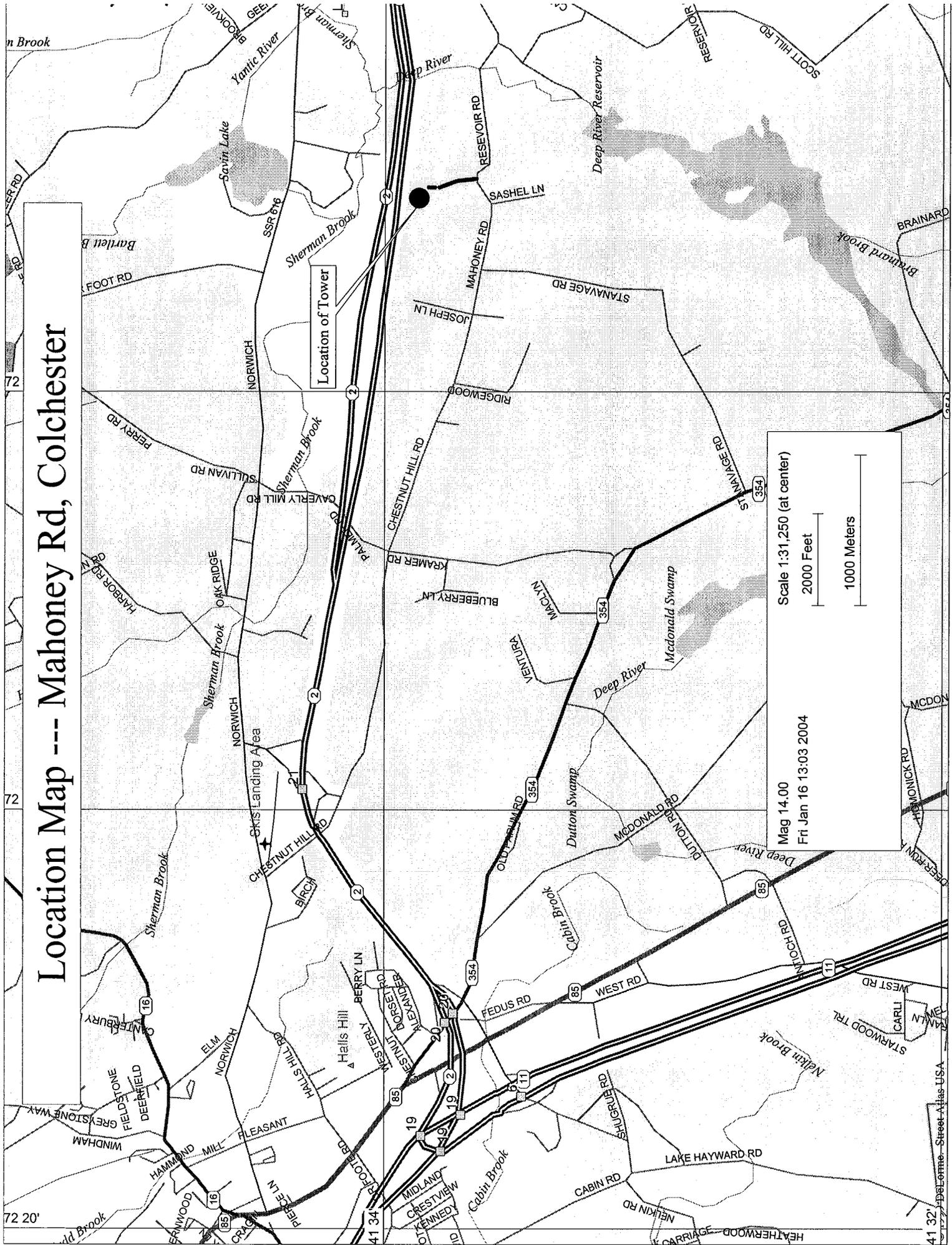
Michele G. Briggs / SLL

Michele G. Briggs
Manager of Real Estate

Enclosures

cc: Honorable Jenny Contois, 1st Selectman, Town of Colchester

Location Map --- Mahoney Rd, Colchester



Location of Tower

Mag 14.00
Fri Jan 16 13:03 2004
Scale 1:31,250 (at center)
2000 Feet
1000 Meters

72 20'

41 32'

Delorme - Street Atlas USA



January 19, 2004

Stephen Schadler
Cingular Wireless
500 Enterprise Drive, Suite 3A
Rocky Hill, CT 06067

Re: Colchester
29 Mahoney Road
Colchester, CT 06415

Natcomm Project No. 03126

Natcomm has Retained Walker Engineering to review the proposed Cingular antenna installation at the above referenced site. The purpose of the review is to determine the adequacy of an existing 180 ft. monopole to support the proposed antennas. The effects of wind load, dead load, ice load and seismic forces in accordance with TIA/EIA-222-F and Connecticut State Building Code. Structural design documents prepared by Valmont Microflect job/quote #11277-00 dated March 22, 2000.

The existing antenna configuration is as follows:

- Voicestream: Three (9) RR901702DP (EMS) mounted on a 12'-6" platform at an elevation of 180.0ft.
- AT&T: Six (6) 7250.03 (Allgon) mounted on universal T-ARM mounts at an elevation of 170.0 ft.

(For the purpose of this report we are considering Twelve (12) DB896 (Decibel) mounted on a 14 ft. low profile platform at each of the above levels per the Valmont design.)

The proposed additional antenna loading is as follows:

- Cingular: Twelve (12) CSS DUO1417-8686 panel antennas with six ADC ClearGain Dual Band MHA's and three CSS DBC-750 Dual Band Combiners on a low profile platform mount at an elevation of 157 ft.

The future antenna loading is as follows:

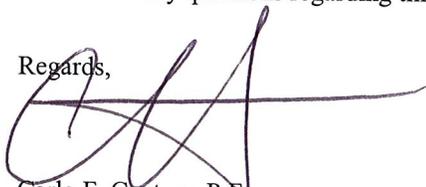
- Future carrier: Twelve (12) DB896 (Decibel) mounted on a 14 ft. low profile platform at an elevation of 150 ft.
- Future carrier: Twelve (12) DB896 (Decibel) mounted on a 14 ft. low profile platform at an elevation of 140 ft

Based on the information provided, the existing structure meets all the requirements of the TIA/EIA-222-F standards for a basic wind speed of 85mph with 1/2 inch radial ice.

In conclusion, the existing 180 ft. monopole is adequate to support the proposed Cingular antennas. Please refer to the attached calculations for further details.

If there are any questions regarding this matter, please feel free to call.

Regards,



Carlo F. Centore, P.E.
Senior Project Manger





Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

January 23, 2004

Honorable Jenny Contois
1st Selectman
Town Hall, 127 Norwich Avenue
Colchester, Connecticut 06415

Re: Notice of Exempt Modification – Existing SBA Properties, Inc. Telecommunications Tower Facility at 29 Mahoney Road, Colchester, Connecticut

Dear Ms. Contois:

Southwestern Bell Mobile Systems, LLC (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at Mahoney Road in Colchester, Connecticut.

The facility is owned and operated by SBA Properties, Inc. (“SBA”), 5900 Broken Sound Parkway NW, Boca Raton, FL 33487. SBA leases the land from the Colchester Fish and Game Club.

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 Colchester 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 SBMS 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,

Michele G. Briggs
Manager of Real Estate

Enclosure



STATE OF CONNECTICUT

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January 23, 2004

Honorable Jenny Contois
First Selectman
Town of Colchester
127 Norwich Avenue
Colchester, Ct. 06415

RE: **EM-CING-028-040123** - Southwestern Bell Mobile Systems, LLC ("SBMS") notice of intent to modify an existing telecommunications facility located at 29 Mahoney Road, Colchester, Connecticut.

Dear Mr. Contois:

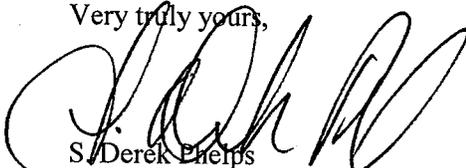
The Connecticut Siting Council (Council) received this request to modify and existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section § 16-50j-72.

The Council will consider this item at the next meeting scheduled for February 3, 2004, 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/cm

Enclosure: Notice of Intent