



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401  
New Britain, Connecticut 06051-4225  
Phone: 827-7682

May 28, 1993

Mr. David S. Malko, P.E.  
General Manager - Engineering  
Bell Atlantic Metro Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492

RE: Metro Mobile CTS of Hartford, Inc., notice of intent to modify existing telecommunications towers and associated equipment located on Pigeon Hill Road in Windsor and off South Street in Vernon, Connecticut, as approved by the Council in Docket No. 58.

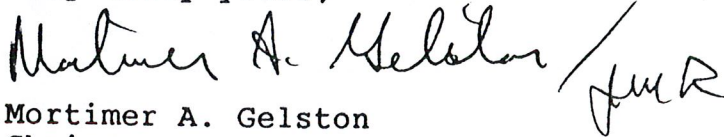
Dear Mr. Malko:

At a meeting held on May 20, 1993, the Connecticut Siting Council acknowledged your notice of intent to modify existing telecommunications towers and associated equipment located on Pigeon Hill Road in Windsor and off South Street in Vernon, Connecticut pursuant to Section 16-50j-73 of the Regulations of State Agencies (RSA).

As proposed in your notice dated May 3, 1993, the modifications are in compliance with the exception criteria specified in RSA 16-50j-72 for changes to an existing facility site that do not increase the tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by 6 decibels, and increase the total radio frequency 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 Section 22a-162 of the Connecticut General Statutes.

The Council is pleased to note that the shared use of an existing tower serves the Council's long-term goal of protecting the public interest by avoiding proliferation of additional tower structures.

Very truly yours,

  
Mortimer A. Gelston  
Chairman

MAG:go

cc: The Hon. Brian T. Griffin, Mayor, Town of Windsor  
The Hon. John F. Drost, Mayor, Town of Vernon  
6984E-1

Bell Atlantic Metro Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492  
203 269-8858

David S. Malko, P.E.  
General Manager - Engineering

May 3, 1993

**RECEIVED**  
MAY 04 1993

Mr. Joel M. Rinebold, Executive Director  
Connecticut Siting Council  
136 Main Street  
Suite 401  
New Britain, Connecticut 06051

**CONNECTICUT  
SITING COUNCIL**

Re: Metro Mobile CTS of Hartford, Inc. - Windsor and Vernon  
Cell Sites

**FILE  
COPY**

Dear Mr. Rinebold:

Metro Mobile CTS of Hartford, Inc. ("Metro Mobile" or the "Company") plans to add microwave antennas and transmitting equipment at its existing tower facilities in Windsor and Vernon, Connecticut. Please accept this letter as notice of intent, 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). In further compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the Mayors of the Towns involved.

The existing facility in Windsor is a 160' self-supporting lattice tower and building housing the cell site equipment, mobile telephone switching office (MTSO), and administrative offices. It is owned by Metro Mobile and located on Pigeon Hill Road. Metro Mobile plans to add one six foot diameter, grid type, microwave dish at the 95' above ground level (AGL). The dish will be oriented toward the existing Vernon cell site tower. There will be no changes to the existing building.

The existing facility in Vernon consists of a 130' self-supporting lattice tower and 15' x 21' equipment shelter located off South Street. Metro Mobile plans to add two six foot diameter, solid type, microwave dishes to this tower at 125' AGL. One dish will be oriented toward the new Bolton cell site and the other towards the tower located at the Windsor cell/MTSO facility. There will be no change to the existing equipment shelter.

The addition of Metro Mobile's microwave antennas and equipment at the sites does not constitute a modification as defined in 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 additions fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b).

First, the height of the existing towers will be unaffected. All of the dishes are proposed to be mounted below the tops of the towers.

Second, the proposed additions will not extend the site boundaries. The microwave electronics will be installed in the existing structures at the sites. No strengthening of the towers is necessary to support the additional loading.

Third, the proposed additions will not increase the noise levels at the existing facilities by six decibels or more. The only noise associated with the operation of the sites will be from air conditioning and temporary emergency power equipment (portable generator), when in use, and will be comparable to what is at the sites today.

Fourth, operation of the existing antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the base of the towers, to a level at or above the ANSI standard. The following tables summarize the power density at the tower bases from the various sources on the towers in relation to the standard.

WINDSOR:

<u>Frequency</u>	<u>Power Density</u>	<u>Standard Limits</u>	<u>% of Standard</u>
450 MHz (Town)	0.0042 mW/cm <sup>2</sup>	0.300 mW/cm <sup>2</sup>	1.400 %
875 MHz	0.0299	0.583	5.137 %
2118 MHz	0.000037	1.412	0.00262 % (*)
5945 MHz	0.000298	3.963	0.00752 %
6175 MHz	0.000237	4.117	0.00576 %
<u>23000 MHz (Town)</u>	<u>0.0000059</u>	<u>10.000</u>	<u>0.00006 %</u>
TOTAL			6.55296 %

VERNON:

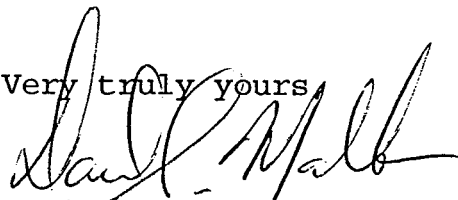
<u>Frequency</u>	<u>Power Density</u>	<u>Standard Limits</u>	<u>% of Standard</u>
875 MHz	0.0499 mW/cm <sup>2</sup>	0.583 mW/cm <sup>2</sup>	8.559 %
2168 MHz	0.000019	1.445	0.001315 % (*)
<u>2178 MHz</u>	<u>0.000019</u>	<u>1.452</u>	<u>0.001308 % (*)</u>
TOTAL			8.561623 %

As the first table shows, the proposed addition (indicated by an "\*") at Windsor contributes 0.00262 % of the ANSI Standard for the microwave frequency used, bringing the site total to 6.55296 % of the standard as calculated for a mixed frequency site.

As the second table shows, the proposed additions (indicated by an "\*") at Vernon contributes 0.002623 % of the ANSI Standard for the microwave frequencies used, bringing the site total to 8.561623 % of the standard as calculated for a mixed frequency site.

For the foregoing reasons, Metro Mobile respectfully submits that the planned additions of antennas and associated equipment at the Windsor and Vernon facilities constitute exempt modifications under R.C.S.A. Section 16-50j-72(b).

Very truly yours,



David S. Malko, P.E.  
General Manager - Engineering

Attachments

cc: Honorable Brian T. Griffin, Mayor, Town of Windsor  
Honorable John F. Drost, Mayor, Town of Vernon

Bell Atlantic Metro Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492  
203 269-8858

David S. Malko, P.E.  
General Manager - Engineering

May 3, 1993


The Honorable John F. Drost, Mayor  
Town of Vernon  
Memorial Building  
14 Park Place  
Vernon, CT 06066

Dear Mayor Drost:

Metro Mobile CTS of Hartford, Inc. ("Metro Mobile" or the "Company") plans to add microwave antennas at its existing tower facility in Vernon. As required by Section 16-50j-73 of the Regulations of Connecticut State Agencies (R.C.S.A.), please accept this letter and the attached letter to the Connecticut Siting Council dated May 3, 1993, as notice of intent of our exempt modification to an existing tower facility pursuant to R.C.S.A. Section 16-50j-72(b).

The attached letter fully sets forth the Company's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please contact the undersigned or Mr. Joel M. Rinebold, Executive Director, Connecticut Siting Council at 827-7682.

Very truly yours,

  
David S. Malko, P.E.  
General Manager - Engineering

Attachment

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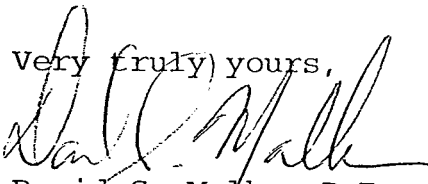
May 3, 1993

The Honorable Brian T. Griffin, Mayor  
Town of Windsor  
Town Hall  
275 Broad Street  
Windsor, CT 06066

Dear Mayor Griffin:

Metro Mobile CTS of Hartford, Inc. ("Metro Mobile" or the "Company") plans to add a microwave antenna at its existing tower facility in Windsor. As required by Section 16-50j-73 of the Regulations of Connecticut State Agencies (R.C.S.A.), please accept this letter and the attached letter to the Connecticut Siting Council dated May 3, 1993, as notice of intent of our exempt modification to an existing tower facility pursuant to R.C.S.A. Section 16-50j-72(b).

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