

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

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June 20, 1990

Mr. David S. Malko, P.E. Manager, Engineering & Regulatory Services Metro Mobile 50 Rockland Road South Norwalk, CT 06854

RE: Metro Mobile CTS of Hartford, Inc., Notice of Intent to Modify an Exempt Tower and Associated Equipment Owned by Metro Mobile located in Somers and Windsor, Connecticut.

Dear Mr. Malko:

At a meeting held on June 18, 1990, the Connecticut Siting Council acknowledged Metro Mobile CTS of Hartford, Inc., notice of intent to modify an exempt tower site and associated equipment owned by Metro Mobile located in Somers and Windsor, Connecticut, pursuant to Section 16-50j-73 of the Regulations of State Agencies (RSA).

The proposed modifications are to be implemented as specified in your notice dated May 30, 1990. As proposed, the modifications are in compliance with the exception criteria specified in RSA 16-50j-72 as 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 6 decibels, and add radio frequency sending or receiving capability which increases 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

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protecting the public interest by avoiding proliferation of additional tower structures.

Please notify the Council upon completion of construction.

Very/truly yours,

Gloria Dibble Pond

Chairperson

GDP:JMR:bw

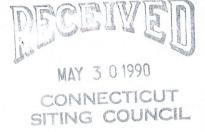
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METRO MOBILE

COPY

May 30, 1990

Connecticut Siting Council 136 Main Street Suite 401 New Britain, Connecticut 06051



Attention: Joel M. Rinebold, Executive Director

Re: Metro Mobile CTS of Hartford, Inc. - Somers and Windsor

Dear Mr. Rinebold:

Metro Mobile CTS of Hartford, Inc. ("Metro Mobile" or the "Company") plans to install microwave dish antennas at the existing tower facilities owned by Metro Mobile in Somers, and Windsor, Connecticut. Please accept this letter as notification, pursuant to R.C.S.A. Sec. 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Sec. 16-50j-72(b).

existing facility in Somers is a 160' self supporting lattice tower and equipment shelter located on Pioneer Heights Road in The existing facility in Windsor is a 160' self supporting Somers. lattice tower and building housing the cell site equipment, mobile telephone switching office (MTSO), and administrative offices located on Pigeon Hill Road in Windsor. Metro Mobile plans to install two microwave antennas on the Somers tower and one microwave antenna on the Windsor tower. These antennas will provide a communications link between the sites in the Springfield, Massachusetts NECMA, and the Connecticut MTSO. One Somers antenna will be directed to an Windsor, antenna to be placed on an existing Metro Mobile tower in Agawam, Massachusetts and the other directed to the proposed Windsor tower Shortly after placing the new microwave antenna on the Windsor tower, an existing microwave antenna aimed toward the Agawam tower will be removed.

The addition of Metro Mobile's microwave antennas and equipment to the sites does not constitute a modification as defined in C.G.S. Sec. 16-50i(d) because the general physical characteristics of the facilities will not be significantly changed or altered. Rather, Metro Mobile's planned additions fall squarely within those activities which explicitly do not constitute a modification to existing towers, as set forth in R.C.S.A. Sec. 16-50j-72(b).

First, the height of the existing towers will be unaffected. Two eight-foot diameter microwave dish antennas, Andrew Corporation model UHX8-59HRF, will be mounted on the Somers tower with center lines of 86' and 96' above ground level (AGL). One eight-foot diameter microwave dish antenna, Andrew Corporation model UHX8-59HRF, will be mounted on the Windsor tower with a center line of 108' AGL. Thus, Metro Mobile's microwave antennas will extend no higher than the 100' level of the 160' Somers tower, and the 112' level of the 160' Windsor tower.

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Second, the proposed additions will not expand either site. Metro Mobile's electronics equipment will be installed in the existing equipment buildings at the sites. No strengthening of the towers is necessary in order 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 resulting from Metro Mobile's planned activities would be from the light-duty trucks bringing the antennas and associated equipment to the sites and incidental noise associated with attaching the antennas to the towers.

Fourth, Metro Mobile's additional antennas will not increase the total radio frequency electromagnetic radiation power density measured at the tower base to a level at or above the State Department of Environmental Protection standard.

The following tables summarize the power density at the tower bases from the various sources on the towers (including Metro Mobile's 875 MHz cellular transmission of 90 channels at 100 watts effective radiated power) in relation to the standard.

Somers:

Frequency	Power Density	Standard Limits	<pre>% of Standard</pre>
875 MHz	0.0555 mW/cm2	2.92 mW/cm2	1.90%
6197.24 MHz	0.000149	5.00	0.00298% *
6256.54 MHz	0.000376	5.00	0.00758% *
			1.91056%

Windsor:

Frequency	Power Density	Standard Limits	% of Standard
450 MHz (Town)	0.0042 mW/cm2	1.50 mW/cm2	0.28%
875 MHz	0.0555	2.92	1.90%
5945.20 MHz	0.000298	5.00	0.00596% *
23000 MHz (Town	1) 0.0000059	5.00	0.00012%
·			2.18608%

As the first table shows, Metro Mobile's proposed additions (*) to Somers contributes 0.01056% of the State exposure standard for the microwave frequency range, bringing the site total to 1.91056% of the standard as calculated for a mixed frequency site.

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As the second table shows, Metro Mobile's proposed addition (*) to Windsor contributes 0.00596% of the State exposure standard for the microwave frequency range, bringing the site total to 2.18608% of the standard as calculated for a mixed frequency site.

For the foregoing reasons, Metro Mobile respectfully submits that the planned addition of the Company's antennas and associated equipment to the existing Metro Mobile facilities constitute exempt modifications under R.C.S.A. Sec. 16-50j-72(b).

Respectfully yours

David S. Malko, P.E.

Manager, Engineering and Regulatory Services

DSM:ds Attachment

cc: John J. O'Brien, Town of Somers Mary K. Drost, Town of Windsor