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ATTORNEYS AT LAW

JULIE D. KOHLER

PLEASE REPLY TO: Bridgeport
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April 3, 2012

ORIGINAL

VIA FEDERAL EXPRESS and ELECTRONIC MAIL

RECEIVED
APR - 4 2012
CONNECTICUT SITING COUNCIL

Ms. Linda L. Roberts
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Docket No. 392 – Application of T-Mobile Northeast LLC, For a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a Telecommunications Facility at 387 Shore Road in the Town of Old Lyme, Connecticut

Dear Ms. Roberts:

Please accept this correspondence as notice that the Facility approved in the above referenced Docket has become operational.

In accordance with the Order Number 3 of the Council's Decision and Order ("Decision") dated September 23, 2010, T-Mobile hereby submits "worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the Facility base". The same worst-case modeling analysis was submitted in the Docket 392 record, and has been recently re-confirmed as being accurate.

Please contact me if you have any questions.

Very truly yours,

Julie D. Kohler

Enclosure

cc: Town of Old Lyme (via first class mail)
Hans Fiedler, T-Mobile Northeast LLC (via electronic mail)

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P.O. Box 1821
Bridgeport, CT 06601-1821
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320 Post Road West
Westport, CT 06880
Tel: (203) 222-1034
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657 Orange Center Road
Orange, CT 06477
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Connecticut Market

Worst Case Power Density

Site:	**CTNL804B**
Site Address:	**387 Shore Road**
Town:	**East Lyme**
Tower Height:	**80 ft.**
Facility Style:	**Monopole**

GSM Data		UMTS Data	
Base Station TX output	20 W	Base Station TX output	40 W
Number of channels	8	Number of channels	2
Antenna Model	APX16DWV-16DWV	Antenna Model	APX16DWV-16DWV
Cable Size	7/8 in.	Cable Size	7/8 in.
Cable Length	110 ft.	Cable Length	110 ft.
Antenna Height	77.0 ft.	Antenna Height	77.0 ft.
Ground Reflection	1.6	Ground Reflection	1.6
Frequency	1945.0 MHz	Frequency	2.1 GHz
Jumper & Connector loss	4.50 dB	Jumper & Connector loss	1.50 dB
Antenna Gain	18.0 dBi	Antenna Gain	18.0 dBi
Cable Loss per foot	0.0186 dB	Cable Loss per foot	0.0116 dB
Total Cable Loss	2.0460 dB	Total Cable Loss	1.2760 dB
Total Attenuation	6.5460 dB	Total Attenuation	2.7760 dB
Total EIRP per Channel	54.46 dBm	Total EIRP per Channel	61.24 dBm
(In Watts)	279.53 W	(In Watts)	1331.86 W
Total EIRP per Sector	63.50 dBm	Total EIRP per Sector	64.25 dBm
(In Watts)	2236.25 W	(In Watts)	2663.73 W
nsg	11.4540	nsg	15.2240
Power Density (S) =	0.097325 mW/cm^2	Power Density (S) =	0.115929 mW/cm^2
T-Mobile Worst Case % MPE =		21.3254%	

Equation Used :

$$S = \frac{(1000)(grf)^2 (Power) * 10^{(nsg/10)}}{4\pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Co-Location Total

Carrier	% of Standard
Verizon	0.0000 %
Cingular	0.0000 %
Sprint	0.0000 %
AT&T Wireless	0.0000 %
Nextel	0.0000 %
MetroPCS	
Other Antenna Systems	0.0000 %
Total Excluding T-Mobile	**0.0000 %**
T-Mobile	21.3254
Total % MPE for Site	**21.3254%**