

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:

APPLICATION OF CELLCO PARTNERSHIP D/B/A DOCKET NO. 434
VERIZON WIRELESS FOR A CERTIFICATE OF
ENVIRONMENTAL COMPATIBILITY AND PUBLIC
NEED TO May 8, 2013
RELOCATE AN EXISTING WIRELESS
TELECOMMUNICATIONS FACILITY AT
139 NORTH MAIN STREET, WEST
HARTFORD, CONNECTICUT

INTERVENOR NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
POST HEARING SUBMISSION

Intervenor, New Cingular Wireless PCS, LLC ("AT&T") submits the following requested information in this proceeding:

Cumulative Power Density Calculation

Provided in Attachment 1 is a cumulative power density calculation including AT&T's and Verizon's facilities at the clock tower facility. The attached cumulative calculation demonstrates compliance with the applicable FCC standards.

Emergency Generator

AT&T's estimated load on the emergency generator will be approximately 1/3 of the 100kW generator during emergency use of the generator.

Facility Elevation

The centerline of AT&T's existing antennas at Gallaudet Hall is approximately 76' above grade level (AGL). The ground elevation at the clock tower facility is approximately 28' higher than the ground elevation at Gallaudet Hall. The centerline height of AT&T's antennas at the clock tower location is approximately 44.5' AGL. Thus, the overall centerline mounting height of AT&T's antennas at the clock tower location is approximately 72.5' AGL (ground level at Gallaudet Hall).

CERTIFICATE OF SERVICE

I hereby certify that on this day, an original and fifteen copies of the foregoing were sent electronically and by overnight mail to the Connecticut Siting Council and:

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Dated: May 8, 2013


Lucia Chiochio
Lucia Chiochio

cc: Michele Briggs, AT&T
Kenneth Long, SAI
Mike Lawton, SAI
Tim Burks, SAI
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ATTACHMENT 1

Michael Lawton
 SAI Communications
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 Marlborough, MA 01752
Mike.Lawton@sai-comm.com



April 30, 2013

Connecticut Siting Council

Subject: AT&T Wireless, CT2592 – West Hartford Relo

Dear Connecticut Siting Council:

At the request of AT&T Wireless, SAI Communications has performed an assessment of the RF Power Density at the proposed site located at 139 N Main St, West Hartford, CT.

Calculations were done in compliance with FCC OET Bulletin 65. This report provides an FCC compliance assessment based on an analysis that all transmitters are simultaneously operating at full power and pointing towards the horizon. The calculations include a 10 dB off-beam pattern loss.

FCC OET Bulletin 65 formula:

$$S = \frac{2.56 * 1.64 * ERP}{4 * \pi * R^2}$$

Transmission Mode	Antenna Centerline AGL (ft)	Frequency (MHz)	Number of Channels	Effective Radiated Power per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	% MPE (Uncontrolled/General Public)
AT&T UMTS	44.5	850	2	982.00	0.0357	0.5667	6.30%
AT&T UMTS	44.5	1900	2	1355.00	0.0492	1	4.92%
AT&T LTE	44.5	700	1	1313.00	0.0238	0.4667	5.10%
AT&T LTE	44.5	2100	1	1245.00	0.0302	1	3.02%
AT&T GSM	44.5	850	1	491.00	0.0089	0.5667	1.57%
AT&T GSM	44.5	1900	4	813.00	0.0590	1	5.90%
Verizon LTE	54.5	698	1	1005.00	0.0122	0.4653	2.62%
Verizon Cellular	54.5	869	9	564.00	0.0614	0.5793	10.60%
Verizon PCS	64.5	1900	7	715.00	0.0433	1	4.33%
Verizon AWS	64.5	2110	1	1959.00	0.0169	1	1.69%
Total							46.05%

Conclusion: AT&T's proposed antenna installation is calculated to be within 46.05% of FCC Standard for General Public/Uncontrolled Maximum Permissible Exposure (MPE).

Sincerely,

Michael Lawton
 SAI Communications