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February 16, 2015

Connecticut Siting Council

Subject: AT&T Wireless, SR1804 – Bethel CT04 – (CT1155C SITE1)

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 62+64 Codfish Hill Road, Bethel, CT (CT1155C SITE1). Calculations were done in compliance with FCC OET Bulletin 65. This report provides an FCC compliance assessment based on a “worst-case” analysis that all transmitters are simultaneously operating at full power and pointing directly at the ground.

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 <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	% MPE (Uncontrolled/General Public)
AT&T UMTS	146	850	2	500.00	0.0169	0.5667	2.98%
AT&T UMTS	146	1900	2	500.00	0.0169	1	1.69%
AT&T LTE	146	700	2	500.00	0.0169	0.4667	3.62%
AT&T LTE	146	2100	2	500.00	0.0169	1	1.69%
<b>Total</b>							<b>9.97%</b>

**Conclusion:** AT&T’s proposed antenna installation is calculated to be within 9.97% of FCC Standard for General Public/Uncontrolled Maximum Permissible Exposure (MPE).

Sincerely,

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Subject: AT&T Wireless, SR1804 – Bethel CT04 - (CT1155C BETHEL)

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 62+64 Codfish Hill Road, Bethel, CT (CT1155C BETHEL). Calculations were done in compliance with FCC OET Bulletin 65. This report provides an FCC compliance assessment based on a “worst-case” analysis that all transmitters are simultaneously operating at full power and pointing directly at the ground.

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 <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	% MPE (Uncontrolled/General Public)
AT&T UMTS	166	850	2	500.00	0.0131	0.5667	2.30%
AT&T UMTS	166	1900	2	500.00	0.0131	1	1.31%
AT&T LTE	166	700	2	500.00	0.0131	0.4667	2.80%
AT&T LTE	166	2100	2	500.00	0.0131	1	1.31%
<b>Total</b>							<b>7.71%</b>

**Conclusion:** AT&T’s proposed antenna installation is calculated to be within 7.71% of FCC Standard for General Public/Uncontrolled Maximum Permissible Exposure (MPE).

Sincerely,

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