



**Cumulative Power Density Analysis of Sprint PCS & Other Co-location Antennas  
Cove Road, Haddam, CT 06438.**

<b>Operator</b>	<b>Operating Frequency (MHz)</b>	<b>Distance to Target(ft)</b>	<b>Calculated Power Density (mW/cm<sup>2</sup>)</b>	<b>Maximum Permissible Exposure* (mW/cm<sup>2</sup>)</b>	<b>Fraction of MPE</b>
NU	220	155	0.0036	0.20	1.80%
NU	221	155	0.0036	0.20	1.80%
NU	48.16	165	0.0020	0.20	0.99%
NU	6000	160	0.0144	1.00	1.44%
NU	6000	175	0.0120	1.00	1.20%
NU	48.38	180	0.0017	0.20	0.83%
NU	154.4635	180	0.0028	0.20	1.39%
CSP	800	175	0.0088	0.53	1.65%
Sprint	1962.5	150	0.0483	1.00	4.83%
<b>Total Percentage of Maximum Permissible Exposure</b>					<b>15.93%</b>

\*Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992

**CT33XC019 Haddam CT  
Worst Case Power Density Analysis of Sprint PCS Antennas @ Base of Tower. Assumes Max ERP & No Antenna Pattern Adjustment**

Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Total ERP (Watts)	Antenna Height (Feet)	Distance From Base of Tower (Feet)	Calculated Power Density (mW/cm <sup>2</sup> )	Maximum Permissible Exposure <sup>a</sup>	%MPE
1962.5	11	274.54	3019.94	150	0	0.0483	1	4.83%
1962.5	11	274.54	3019.94	150	50	0.0435	1	4.35%
1962.5	11	274.54	3019.94	150	100	0.0335	1	3.35%
1962.5	11	274.54	3019.94	150	150	0.0242	1	2.42%
1962.5	11	274.54	3019.94	150	200	0.0174	1	1.74%
1962.5	11	274.54	3019.94	150	250	0.0128	1	1.28%
1962.5	11	274.54	3019.94	150	300	0.0097	1	0.97%
1962.5	11	274.54	3019.94	150	350	0.0075	1	0.75%
1962.5	11	274.54	3019.94	150	400	0.0060	1	0.60%
1962.5	11	274.54	3019.94	150	450	0.0048	1	0.48%
1962.5	11	274.54	3019.94	150	500	0.0040	1	0.40%
1962.5	11	274.54	3019.94	150	550	0.0033	1	0.33%
1962.5	11	274.54	3019.94	150	600	0.0028	1	0.28%
1962.5	11	274.54	3019.94	150	650	0.0024	1	0.24%
1962.5	11	274.54	3019.94	150	700	0.0021	1	0.21%
1962.5	11	274.54	3019.94	150	750	0.0019	1	0.19%
1962.5	11	274.54	3019.94	150	800	0.0016	1	0.16%
1962.5	11	274.54	3019.94	150	850	0.0015	1	0.15%
1962.5	11	274.54	3019.94	150	900	0.0013	1	0.13%
1962.5	11	274.54	3019.94	150	950	0.0012	1	0.12%
1962.5	11	274.54	3019.94	150	1000	0.0011	1	0.11%

<sup>a</sup>Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992

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NU	6000	175	0.0120	1.00	1.20%
NU	48.38	180	0.0017	0.20	0.83%
NU	154.4635	180	0.0028	0.20	1.39%
<b>Total Percentage of Maximum Permissible Exposure</b>					<b>9.45%</b>

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CSP	800	175	0.0088	0.53	1.65%
<b>Total Percentage of Maximum Permissible Exposure</b>					<b>1.65%</b>

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