

**Cumulative Power Density Analysis of Sprint PCS & Other Co-location Antennas  
186 Black Rock Turnpike, Redding, CT 06896.**

| <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> |
|---------------------------------------------------------|----------------------------------|--------------------------------|-----------------------------------------------------|----------------------------------------------------------|------------------------|
| Redding Fire Department                                 | 33.78                            | 80                             | 0.0056                                              | 0.20                                                     | 2.81%                  |
| Sprint-Nextel                                           |                                  |                                |                                                     |                                                          |                        |
| iDEN                                                    | 800                              | 120                            | 0.0300                                              | 0.57                                                     | 5.29%                  |
| CDMA                                                    | 1962.5                           | 120                            | 0.0764                                              | 1.00                                                     | 7.64%                  |
| <b>Total Percentage of Maximum Permissible Exposure</b> |                                  |                                |                                                     |                                                          | <b>15.74%</b>          |

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

**CT54XC768 Redding CT**  
**Worst Case Power Density Analysis of Fire Department 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) | Slant Distance (Feet) | Calculated Power Density (mW/cm <sup>2</sup> ) | Maximum Permissible Exposure <sup>2</sup> | %MPE  |
|---------------------------|------------------|--------------------------------------------------------|-------------------|-----------------------|------------------------------------|-----------------------|------------------------------------------------|-------------------------------------------|-------|
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 0                                  | 80                    | 0.0056                                         | 0.2                                       | 2.81% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 50                                 | 94                    | 0.0040                                         | 0.2                                       | 2.02% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 100                                | 128                   | 0.0022                                         | 0.2                                       | 1.10% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 150                                | 170                   | 0.0012                                         | 0.2                                       | 0.62% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 200                                | 215                   | 0.0008                                         | 0.2                                       | 0.39% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 250                                | 262                   | 0.0005                                         | 0.2                                       | 0.26% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 300                                | 310                   | 0.0004                                         | 0.2                                       | 0.19% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 350                                | 359                   | 0.0003                                         | 0.2                                       | 0.14% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 400                                | 408                   | 0.0002                                         | 0.2                                       | 0.11% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 450                                | 457                   | 0.0002                                         | 0.2                                       | 0.09% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 500                                | 506                   | 0.0001                                         | 0.2                                       | 0.07% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 550                                | 556                   | 0.0001                                         | 0.2                                       | 0.06% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 600                                | 605                   | 0.0001                                         | 0.2                                       | 0.05% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 650                                | 655                   | 0.0001                                         | 0.2                                       | 0.04% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 700                                | 705                   | 0.0001                                         | 0.2                                       | 0.04% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 750                                | 754                   | 0.0001                                         | 0.2                                       | 0.03% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 800                                | 804                   | 0.0001                                         | 0.2                                       | 0.03% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 850                                | 854                   | 0.0000                                         | 0.2                                       | 0.02% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 900                                | 904                   | 0.0000                                         | 0.2                                       | 0.02% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 950                                | 953                   | 0.0000                                         | 0.2                                       | 0.02% |
| 33.78                     | 1                | 100.00                                                 | 100               | 80                    | 1000                               | 1003                  | 0.0000                                         | 0.2                                       | 0.02% |

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**CT54XC768 Redding 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>2</sup> | %MPE  |
|---------------------------|------------------|--------------------------------------------------------|-------------------|-----------------------|------------------------------------|------------------------------------------------|-------------------------------------------|-------|
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 0                                  | 0.0764                                         | 1                                         | 7.64% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 50                                 | 0.0651                                         | 1                                         | 6.51% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 100                                | 0.0451                                         | 1                                         | 4.51% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 150                                | 0.0298                                         | 1                                         | 2.98% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 200                                | 0.0202                                         | 1                                         | 2.02% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 250                                | 0.0143                                         | 1                                         | 1.43% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 300                                | 0.0105                                         | 1                                         | 1.05% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 350                                | 0.0080                                         | 1                                         | 0.80% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 400                                | 0.0063                                         | 1                                         | 0.63% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 450                                | 0.0051                                         | 1                                         | 0.51% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 500                                | 0.0042                                         | 1                                         | 0.42% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 550                                | 0.0035                                         | 1                                         | 0.35% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 600                                | 0.0029                                         | 1                                         | 0.29% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 650                                | 0.0025                                         | 1                                         | 0.25% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 700                                | 0.0022                                         | 1                                         | 0.22% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 750                                | 0.0019                                         | 1                                         | 0.19% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 800                                | 0.0017                                         | 1                                         | 0.17% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 850                                | 0.0015                                         | 1                                         | 0.15% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 900                                | 0.0013                                         | 1                                         | 0.13% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 950                                | 0.0012                                         | 1                                         | 0.12% |
| 1962.5                    | 11               | 277.98                                                 | 3057.78           | 120                   | 1000                               | 0.0011                                         | 1                                         | 0.11% |

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CT54XC768 Redding CT  
Worst Case Power Density Analysis of Sprint IDEN 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) | Shant Distance (Feet) | Calculated Power Density (mW/cm <sup>2</sup> ) | Maximum Permissible Exposure <sup>2</sup> | %MPE  |
|---------------------------|------------------|--------------------------------------------------------|-------------------|-----------------------|------------------------------------|-----------------------|------------------------------------------------|-------------------------------------------|-------|
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 0                                  | 120                   | 0.0300                                         | 0.57                                      | 5.29% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 50                                 | 130                   | 0.0256                                         | 0.57                                      | 4.51% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 100                                | 156                   | 0.0177                                         | 0.57                                      | 3.12% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 150                                | 192                   | 0.0117                                         | 0.57                                      | 2.06% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 200                                | 233                   | 0.0079                                         | 0.57                                      | 1.40% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 250                                | 277                   | 0.0056                                         | 0.57                                      | 0.99% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 300                                | 323                   | 0.0041                                         | 0.57                                      | 0.73% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 350                                | 370                   | 0.0032                                         | 0.57                                      | 0.56% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 400                                | 418                   | 0.0025                                         | 0.57                                      | 0.44% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 450                                | 466                   | 0.0020                                         | 0.57                                      | 0.35% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 500                                | 514                   | 0.0016                                         | 0.57                                      | 0.29% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 550                                | 563                   | 0.0014                                         | 0.57                                      | 0.24% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 600                                | 612                   | 0.0012                                         | 0.57                                      | 0.20% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 650                                | 661                   | 0.0010                                         | 0.57                                      | 0.17% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 700                                | 710                   | 0.0009                                         | 0.57                                      | 0.15% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 750                                | 760                   | 0.0007                                         | 0.57                                      | 0.13% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 800                                | 809                   | 0.0007                                         | 0.57                                      | 0.12% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 850                                | 858                   | 0.0006                                         | 0.57                                      | 0.10% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 900                                | 908                   | 0.0005                                         | 0.57                                      | 0.09% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 950                                | 958                   | 0.0005                                         | 0.57                                      | 0.08% |
| 851                       | 12               | 100.00                                                 | 1200              | 120                   | 1000                               | 1007                  | 0.0004                                         | 0.57                                      | 0.08% |

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