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PWL04547 / Wheeling College / AT&T USID 188368
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Purpose

This letter provides an overview of the Federal Communications Commission's (FCC) rules governing permissible exposure levels to radiofrequency (RF) emissions at FCC-licensed facilities and attests to AT&T Mobility's commitment to comply with those RF exposure rules at all its sites.

FCC's Exposure Rules

The FCC's RF exposure rules, which stem from requirements set forth in the National Environmental Policy Act of 1969 (NEPA), are published in the Title 47 of Code of Federal Regulations (47 CFR) §1.1310, "Radiofrequency radiation exposure limits." Radiofrequency exposure at levels below those maximum permissible exposure (MPE) levels defined in FCC rules are deemed to pose no hazard to human health. These rules limit exposure to emissions. Thus, a cell site may have high emissions, but comply with FCC rules by effectively limiting exposure.

In its rules, the FCC defines two exposure environments and the MPE limits within those environments that are established with a large margin of safety.

- **General Public/Uncontrolled**—This environment applies to locations where the general public may be exposed, or where persons exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. The MPE limits for this environment are 5 times more restrictive than those for the Occupational/ Controlled) environment described next.
- **Occupational/Controlled**—This environment applies to locations where persons are exposed as a consequence of their employment provided they are fully aware of the potential for exposure and can exercise control over their exposure. The MPE limits for this environment also apply where an individual is transient, provided they are made aware of the potential for exposure.



The chart below shows the most restrictive FCC MPE limits for each exposure environment in AT&T's frequency bands.

FCC MPE Limits (mW/cm²) for 700 MHz, Cellular, AWS, and WCS			
Exposure Environment	Frequency Band		
	700 MHz	Cellular	PCS/AWS/WCS 1710 MHz- 2360 MHz
General Population/Uncontrolled	0.47	2.98	1.0
Occupational/Controlled	2.33	2.90	5.0

AT&T's RF Safety Compliance

AT&T's cell sites transmit and receive radio signals to and from wireless phones and other wireless devices.

AT&T's national RF safety program policy requires all of its sites to be in compliance with the FCC's RF exposure rules. Ordinarily, AT&T approaches RF safety compliance conservatively, using the more restrictive General Population/ Uncontrolled MPE limits.

AT&T uses both specially-trained employees and carefully-selected RF safety consultants to assess exposure levels and recommend appropriate mitigation to limit exposure. Based on the assessments, RF safety signage and barriers may be deployed to protect persons from entering areas where exposure levels could exceed the applicable MPE limits. AT&T's use of RF safety signs, barriers, and other protective methods are guided by the FCC's publication OET Bulletin 65.

Sincerely,

Joseph Spiecha
RF Engineer
OH/WPA Market