

## CALCULATED SAR for UNCONTROLLED, GENERAL POPULATION

$$S = PG/(4\pi R^2)$$

Where S = power density in mw/cm<sup>2</sup>

P = input power to antenna in mw.

G = power gain of antenna

R = distance from antenna in cm.

For a minimum distance of 3 meters and 2 watt operation with a 10-dB gain antenna, S is:

$$S = 1000(10)/(4\pi(300)^2) = 0.0088 \text{ mw/cm}^2$$

This is within the requirements of 1.0 mw/cm<sup>2</sup>.

There is only one antenna available for use with this system. It is professionally installed and modification or substitution is not an option. The typical gain of the antenna is 6 dB and will always be less than 10 dB. A picture of the antenna is included in the report.

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MODEL: AATC-SSR

Test #: 000614 FCCID#: AJTAATCSSLR-24

Test to: FCC Parts 2 and 15c

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