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1st November 2005

Re: Exhibit 11- Radio Frequency Radiation Exposure Limits

The exposure limits for public exposure to time varying electromagnetic field for the frequency range 1.5-100 GHz is a power density of 1.0 mW/cm² averaged over 30 minutes. This is specified in the "General Population/Uncontrolled Exposure" section of "Table 1--Limits for Maximum Permissible Exposure" published in FCC Title 47 CFR Part 1 Section 1310 "Radiofrequency radiation exposure limits".

Using the following equations:

$$Pd = EIRP/4\pi d^2$$

where

Pd power density (W/m²)
EIRP equivalent isotropic radiated power (W) given by $P_t G_t$, where P_t is transmitted power, and G_t is Transmitter antenna gain
d spatial separation (m)

Whilst the factory calibrated maximum output power is 23dBm, a figure of 25dBm is used to provide a margin.

The required minimum distance according to the guidelines for a transmitter at a maximum output power (P_t) of 25dBm, and peak antenna gain (G_t) of 3 dB, is calculated to be 7.1 cm.

As the BTS is a fixed installation, a higher safe distance of 20cm will be used. The user manual shall state that measures be taken to ensure that the general public can not place themselves within 20 cm of the unit for periods of longer than 30 minutes.

Yours Sincerely

A handwritten signature in black ink, appearing to read 'Nick Johnson'.

Nick Johnson
Technical Director