

From: William Gordon

To: Leann Nguyen

Date: August 10, 2007

Subject: FCC File No. 0324-EX-ST-2007

Message:

AirCell still needs the STA referenced in your e-mail. Please continue to process.

The additional information requested is included below and will be amended to our application.

Thank you.

Bill Gordon
AirCell LLC

Longitude and latitude will be at airports across the country where airlines have maintenance facilities. This is no single site for this testing.

EIRP will not exceed 12 watts.

Emissions will be Direct Sequence Spread Spectrum when using IEEE 802.11b and Orthogonal Frequency Division Multiplexing when using IEEE 802.11a or 802.11g.

Modulating signals, bandwidths, emissions, and tolerances will conform to IEEE 802.11a/b/g. In the UNII band (5.0 GHz to 5.8 GHz) the channels are 10 MHz wide. In the ISM band (2.4 GHz to 2.5 GHz), each channel is 22 MHz wide.

The transmitting device is an Agilent E4438C Extended (Vector) Signal Generator, with a frequency tolerance of plus or minus 1 part per million. This generator will provide power levels up to 25 dBm. Additional gain is provided by a standard gain feed horn antenna with an accurate 20 dB gain factor. The target 12 watt EIRP is accomplished by feeding a 21 dBm signal to the 20 dB antenna for an EIRP of 41 dBm, equivalent to 12 watts. The modulation is controlled by software manufactured by Agilent. The resulting signal conforms precisely to the IEEE 802.11 standards, including the mask that filters the shape of the signals.