

**Securaplane
Technologies, Inc**

**10800 N. Mavinee Dr.
Tucson, AZ 85737**

February 18, 2004

Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

Dear Sir or Madam:

This letter is a request for a Special Temporary Authority (STA).

Company name and address:

Securaplane Technologies, Inc.
10800 N. Mavinee Dr.
Tucson, AZ 85737
520-297-0844

We are requesting an STA for use in the development of a new product. This product is to be used in an aviation environment. In addition to product development we will need to perform site surveys on various aircraft to determine what our maximum path losses will be and from that derive what maximum transmit power levels will be required. We also intend to perform open field testing at our facilities in Tucson and our partner's facilities in Portland, OR.

The period for the development and experiments will be from February through the end of July 2004.

This project involves a new radio design, and as such there is no current station class or call sign.

The project will use radiating and receiving equipment similar to that used in blue-tooth equipment. The only difference between blue-tooth and our implementation will be the channel hopping rate and hopping sequence. All blue-tooth frequencies, bandwidth and modulations will be adhered to. All part 15 rules and regulations will be adhered to.

We propose operating the equipment at the following locations:

Securaplane Technologies, Inc.
10800 N. Mavinee Dr.
Tucson, AZ 85737
110W 56' 52", 32N 24' 08"

Seitz and Associates, Inc.
1905 NW 169th Place
Suite 120
Beaverton, OR 97006

Evergreen Air Center, Inc.
Pinal Air Park
Marana, AZ 85653
111W 19' 13", 32N 30' 32"

The project will be using newly developed equipment. The proposed RF hardware will be based on the nRF2401 Single Chip 2.4 GHz Radio Transceiver. Data sheet attached. There will be a total of 10 units used in the propagation study.

The frequencies used range from 2.400 to 2.4835 GHz. Each individual channel within the band will be separated by 1.0 MHz. An individual frequency will be Gaussian frequency shift modulated at ± 200 KHz. The maximum final power shall be 1.0 mW. The maximum effective radiated power will be 1.0 mW or less.

The antenna will be permanently affixed to the transceiver wiring board.

Sincerely,

E.J. McKernan IV
Sr. Systems Engineer