

Marvin Application for: Use of Fixed Devices That Re-Radiate Signals Received From the Global Positioning System. (NTIA 8.3.27)

- a. The designed system is for indoor use only, and is located at
- b. An application is submitted with this document for a frequency assignment for an XT station class device to be used as an "Experimental RNSS Test Equipment for the purpose of testing GPS receivers." The system will be used in a hangar for testing and maintain advanced aircraft avionics. Thus preventing the aircraft from being moved in and out of the hangar to complete work, which could result in damage to the aircraft.
- c. Application has been submitted
- d. System will be installed for 2 years and a request for renewal will be submitted.
- e. Meets part "f." of this section
- f. $P_{TMAX} = P_R + 20 \log_{10} f + 20 \log_{10}(30 + d) - 27.55$

$$P_{TMAX} = -140.0517329 + 20 \log_{10} 1575 + 20 \log_{10}(30 + 20.2) - 27.55$$

$$P_{TMAX} = 1946.831809$$

- g. GPS users in the area will be notified via coordination with airport operations and NOTAM's
- h. The system will be limited in use for short durations of time for the testing of the RNSS equipment/systems.
- i. A "STOP BUZZER" point of contact for the authorized device will be identified and available at all times when in use.

Also attached to the document is information form the manufacturer with more specifications about the system and its design.