

From: Robert Clydesdale

To: Jose Trevino
Date: March 17, 2010

Subject: FCC file number 0095-EX-PL-2010

Message:

8.3.28 Use of Fixed Devices That Re-Radiate Signals Received From the Global Positioning System

1. Individual authorization is for indoor use only, and is required for each device at a specific site. Requested authorization is for indoor use only inside the company test and development facility in Orlando, FL.

2. Applications for frequency assignment should be applied for as an XT station class with a note indicating the device is to be used as an Experimental RNSS Test Equipment for the purpose of testing GPS receivers and describing how the device will be used.

This application is for an Experimental RNSS Test Equipment for the purpose of testing GPS receivers on manworn training devices and developing software to display their position. The information sheet below shows a Marine wearing the training equipment with the position location capability which is a GPS. Without the repeater the training equipment must be moved outside the facility to test or use the position location capability.

3. Approved applications for frequency assignment will be entered in the GMF. We have applied for a license and understand that the frequency assignment will be entered in the Government Master File.

4. The maximum length of the assignment will be two years, with possible renewal. We acknowledge that the maximum length of the assignment will be two years.

5. The area of potential interference to GPS reception (e.g., military or contractor facility) has to be under the control of the user. The area of potential interference to GPS reception in our facility is under the control of the Saab Training USA LLC.

6. The maximum equivalent isotropically radiated power (EIRP) must be such that the calculated emissions are no greater than -140 dBm/24 MHz as received by an isotropic antenna at a distance of 100 feet (30 meters) from the building where the test is being conducted. The calculations showing compliance with this requirement must be provided with the application for frequency assignment and should be based on free space propagation with no allowance for additional attenuation (e.g., building attenuation.)

The calculations showing compliance with this requirement are provided below:

Schematic of GPS repeater location at Saab Training USA facility

7. GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
We will notify other companies in the industrial park that GPS information may be impacted for periods of time by distributing fliers to nearby business activities of the use of a GPS repeater in our facility with contact information for Saab Training USA if there is any impact on their use of GPS information.
8. The use is limited to activity for the purpose of testing RNSS equipment/systems.
We will limit the use of the GPS repeater to the stated purpose of testing RNSS equipment and systems.
9. A Stop Buzzer point of contact for the authorized device must be identified and available at all times during GPS re-radiation operation of the device under any condition.
The ?Stop Buzzer point of contact for the authorized device is identified as Peter Booth at tel 380 2425 who is located in the facility and is available at all times during GPS re-radiation operation of the device under any condition.