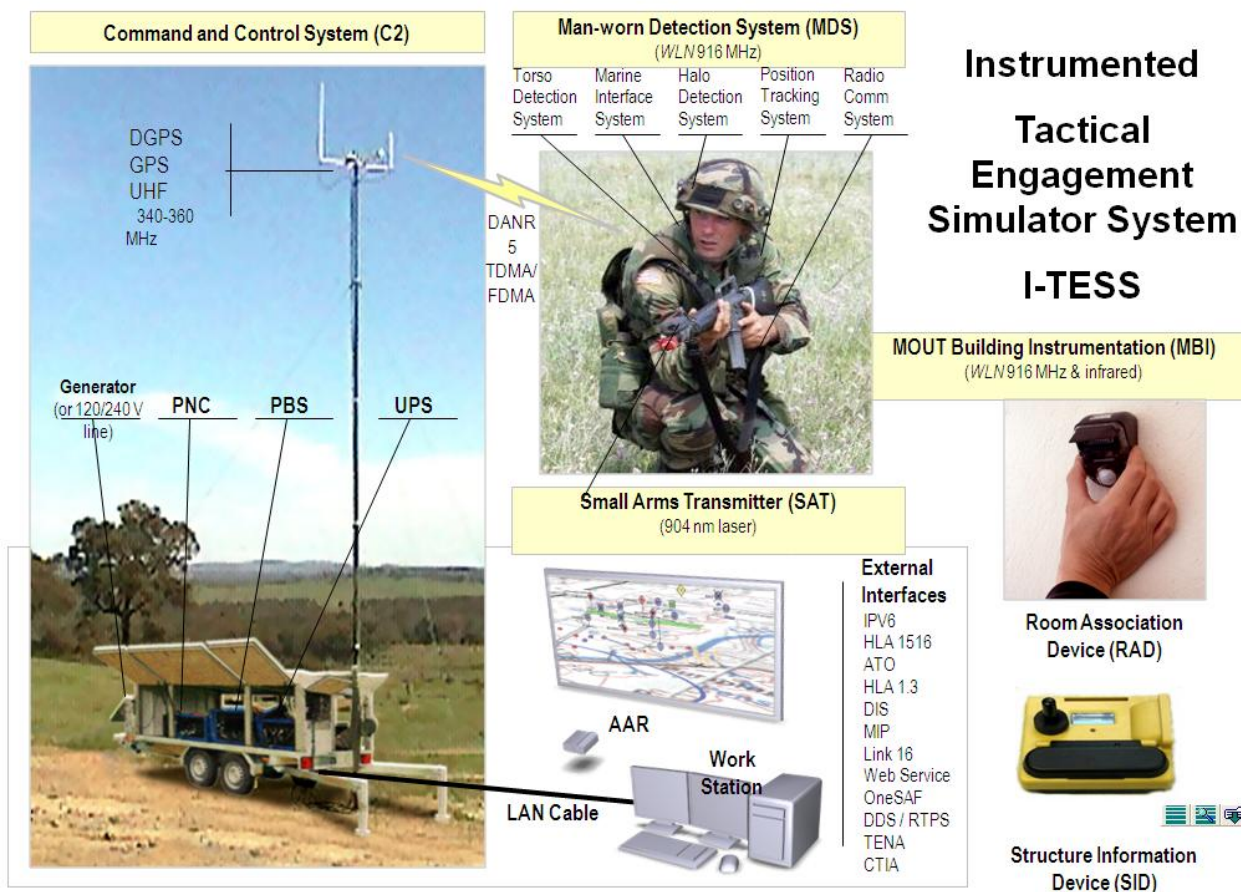


Applicant: Saab Training USA  
 File Number: 0143-EX-ML-2010

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

1. Requested authorization is for indoor use only inside the company test and development facility in Orlando, FL.
2. 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.



### 1.2.1 Man-Worn Detection System

The Marine is equipped with a lightweight personnel Man-Worn Detection System (MDS) (Part Number 8858 002-936). The MDS, with batteries and all simulation components including laser detectors, GPS receiver (Position Tracking System), speakers (Marine Interface System (MIS)) and Radio Communication System equipment, weighs 6.5 pounds. The antennas are the UHF C2 antenna and the 915 MHz WLN antenna. Both antennas are built/sewn into the MDS ensuring that there are no protruding parts that may hinder or hamper the Marine during training regardless of outer garment worn. The UHF C2 antenna is used to receive messages from the C2 system and to transmit event data back to the C2 system. The 915 MHz WLN antenna is used for the local Player Area Network (PAN). This network is used by the MDS for SAT association and for MOUT Instrumentation. A Marine can be fully instrumented in less than five minutes which is the objective. Figure 1 “Man-Worn Detection System” shows the detectors on the harness and halo, the MIS loudspeakers at shoulder level and the battery compartment and Personnel Computer Unit (PCU) and radio module on the lower edges of the harness. The MDS has a built-in, short range radio (WireLess Network or WLN)



**Figure 1. Man-Worn Detection System**

3. We have applied for a license and understand that the frequency assignment will be entered in the Government Master File.
4. We acknowledge that the maximum length of the assignment will be two years with possible renewals.
5. The area of potential interference to GPS reception in our facility is under the control of the Saab Training USA LLC.
6. The calculations showing compliance with this requirement were provided as a separate exhibit
7. 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. We will limit the use of the GPS repeater to the stated purpose of testing RNSS equipment and systems.
9. 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.