

From: Tim Stevens

To: Jose Trevino

Date: January 18, 2010

Subject: FCC file number 0474-EX-PL-2009

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Message:

Please provide the description of the operation to be conducted and its purpose in more details. And also please provide emission designators, and the necessary bandwidths:

1. Summary. Savi Networks is applying for an FCC license to operate a standard GPS repeater indoors, for purpose of testing GPS tracking devices.

2. Description. A GPS repeater will be operated indoors, in the Savi Networks facility in Sunnyvale, California. This will allow us to test our GPS tracking devices prior to shipping the devices to customers. These devices are security seals mounted on ocean shipping containers, including cellular backhaul, allowing our customers to monitor the security of containers entering the U.S. as well as on other global shipments.

The repeater will be a GPS L1 repeater, so that GPS tracking devices can be tested as to successful GPS operations. This will ensure that all devices shipped to customers will have a functional GPS receiver, so that any security tamper of a shipping container can report back the GPS location of the tamper.

A depot technician will connect a tracking device to a PC with a serial cable, and command a self test of the device. The self test includes checking for signal reception in the GPS receiver inside the device. By receiving the GPS repeater signal, a working device can report back a successful self-test, so that the depot technician can ship that tracking device to a Savi Networks customer.

The customer will seal the tracking device onto an ocean shipping container, which will monitor the security of the shipment. Should the shipment be tampered, the device will report over cellular the GPS location of the tamper. This will allow our customers to improve security of shipping containers entering the U.S., as well as on other customer shipments worldwide.

3. The GPS repeater is from GPS Source, model number GPSRKL1-V-P110/5-NF. This receives the GPS signal outdoors, and repeats the GPS L1 signal at a frequency of 1575 MHz indoors. The signal bandwidth is 20 MHz, from 1565 to 1585 MHz. The emission designator is 20M4W7D, which is a 10.23 Mhz chip rate modulating signal, of a standard GPS L1 signal.