

From: Randall Gardner

To: Behnam Ghaffari

Date: October 12, 2015

Subject: FCC File No. 0615-EX-PL-2015

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Message:

8.3.28 Use of Fixed Devices That Re-Radiate Signals Received From the Global Positioning System. Except as otherwise authorized under Section 7.14, federal agencies and departments may, under the following conditions, operate fixed devices that re-radiate signals received from the Global Positioning System (GPS).

a. Individual authorization is for indoor use only, and is required for each device at a specific site.

We are proposing the installation of 1 commercial GPS retransmission kit (GLI-Metro) from GPS Source, Inc., Pueblo West, CO. It will be used exclusively inside our private aircraft hangar located at Detroit Metropolitan Airport

b. 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.

I have completed the application for frequency assignment as an FX class for 1575 MHz. The device will be used to test aircraft installed GPS receivers and peripheral avionics systems which require valid GPS position.

c. Approved applications for frequency assignment will be entered in the GMF.

Noted

d. The maximum length of the assignment will be two years, with possible renewal.

Noted. We will anticipate a 2 year renewal.

e. The area of potential interference to GPS reception (e.g., military or contractor facility) has to be under the control of the user.

Masco Flight Operations is the sole occupant of the facility where this device will be installed and operated. The facility is fully under our control and secured at all times.

f. 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 GLI-Metro user guide shows the maximum transmitted power from this unit is -131 dBm at 100'. In accordance with the manual, we will reduce power to the lowest level that provides a

stable test signal.

g. GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.

All users in the area of potential interference will be notified during periods of operation.

h. The use is limited to activity for the purpose of testing RNSS equipment/systems.

Noted. This is our only purpose.

i. A "Stop Buzzer" point of contact for the authorized device must be identified and available at all times during GPS re-radiator operations.

The device will only be operated when Masco Flight Operations personnel are on site. They can be contacted by calling (734) 942-1100 which is the main hangar phone number.