

From: Rob Baldwin

To: Hung Le

Date: April 26, 2021

Subject: Request for Info - File # 0335-EX-CN-2021

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Message:

Reference numbers: 61567 and 61569

Good morning, I submitted the ERP calculation spreadsheet via the "submit ELS attachment section of the application. I had also sent a sketch of our building and antenna location on the building with the application.

For clarity, this GPS repeater will be strictly used to test aircraft systems for maintenance.

Answers to section 8.3.28:

Section 8.3.28 of NTIA Manual Reference # 18519 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.

This request is for a single GPS re-radiation antenna installation indoors.

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.

Not Applicable. The singular system will be used to provide indoor access to GPS signals providing time and position information for test and verification of aircraft avionics systems during ground tests and prior to flight.

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

Not Applicable

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

It is understood the license will require review and renewal after 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.

Yes.

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.)

See ERP calculation spread sheet PDF submitted.

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.

yes.

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

Yes, limited to certain yearly equipment checks.

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

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