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[www.capeair.com](http://www.capeair.com)

August 12, 2020

Hello Mr. Le,

In response to your request dated 8/12/2020 I would like to provide the clarifications questions requested under the NTIA 8.3.28 use of land-based mobile 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.*  
*The GPS re-radiation device we will install will be mounted indoors within our maintenance hangar.*
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.*  
*Our application will use an XT station class for the purpose of re-radiating a signal indoors within our maintenance hangar for general aircraft GPS upgrades and maintenance.*
3. *Approved applications for frequency assignment will be entered in the GMF.*  
*Upon approval, we can be sure the frequency assignment is entered in the GMF.*
4. *The maximum length of the assignment will be two years, with possible renewal.*  
*We are OK with a 2-year term with possible renewal.*
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 where the signal will be re-radiated is within an indoors space completely within the control of our users.*
6. *The maximum equivalent isotopically 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 Link Budget Calculator of our install shows the repeated signal to be -140.321 @ 100 feet from the building.*
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.*  
*All GPS users in the area of the re-radiated signal are employed by our company and will be notified of potential interference to the GPS reception.*
8. *The use is limited to activity for the purpose of testing RNSS equipment/systems.*  
*The use of our re-radiated GPS signal is for the sole purpose of testing RNSS equipment/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.*  
*I will be the primary "Stop Buzzer" point of contact for the authorized device and I can be reached anytime on my cell at 508-454-2229.*

Sincerely,

Brett Stone  
Manager of Network Operations

*Reservations & Information: 800.CAPE.AIR or [www.capeair.com](http://www.capeair.com)*