

Echodyne Corp.
Supplement to Application for Part 5 Experimental License
ELS File No. 0559-EX-CN-2021

SUPPLEMENTAL INFORMATION

In response to correspondence from OET (Ref. #63760), Echodyne Corp. submits the following:

A. ERP Calculation

We have uploaded the ERP calculation spreadsheet as an exhibit to the application.

B. NTIA Manual Section 8.3.27 Clarification Questions

The GPS repeater will operate in accordance with NTIA Manual Section 8.3.27 for Fixed Devices as follows:

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

There will be one device used at a fixed location indoors only.

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.

N/A

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

N/A

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

We have applied for one year.

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

by the maximum power calculation described in f. below, and thus no further record notes are required for frequency assignments.

The area of potential interference is under the control of Echodyne.

f. The equivalent isotropically radiated power (EIRP) must be such that the 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.

Per the attached calculation, EIRP is not greater than -140 dBm/24 MHz at a distance of 100 ft from the building.

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.

Access to the area of potential interference is limited to Echodyne employees and they will be notified of testing.

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

The repeater will be used solely to test RNSS equipment.

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 stop buzzer is identified in our narrative statement exhibit.

C. Antenna Location

The antenna will be mounted inside Echodyne's facility at the lat/long coordinates provided in the application.