

NARRATIVE STATEMENT

Pursuant to Section 5.3(j) and Section 5.54 of the Federal Communications Commission's ("FCC") rules, Echodyne Corp. hereby respectfully requests a two year experimental license commencing September 28, 2020 to operate in the 24.05-24.25 GHz band.

In support of this request, the following is shown:

A. Purpose of Operation and Need for Experimental License:

The experimental license will enable the company to test and validate the performance of a new radar developed by Echodyne Corp. The new radar is a variant the EchoGuard radar that operates at a lower frequency band. The license is for testing purposes only and not for permanent installation of the radars.

B. Location of Proposed Operation:

Echodyne proposes to test the radar at a fixed location within the area described below.

Location	Coordinates (NAD83)	Radius of Operation
Kirkland, WA	47° 42' 32" N 122° 11' 15" W	20 km

C. Technical Specifications:

1. Frequencies Desired

Echodyne requests authorization to operate in the 24.05-24.25 GHz band.

2. Effective Radiated Power

The units to be deployed operate at a peak maximum transmitter power output of 3.2W, and a peak maximum effective radiated power of 246W. Operations will be conducted to comply with rules relating to human exposure to radiation.

3. Modulation and Emissions

The radar operates using linear FM modulation. The emission designator is 45M0FXN. The emissions will not extend beyond the frequency bands requested.

4. Antenna Information

No antennas will be mounted in a fashion that will require approval under FAA and FCC rules and regulations.

5. Equipment To Be Used

Echodyne will conduct the testing with a maximum of 2 units.

D. Protection Against Causing Interference:

In the event that Echodyne receives a complaint of harmful interference from the proposed operation, Echodyne will take immediate action to address the interference. The company has designated Ms. Mo Swanson (contact information below) to act as the “stop buzzer” for this purpose.

E. Restrictions on Operation:

Echodyne recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities. Should interference occur, Echodyne will take immediate steps to resolve the interference, including discontinuing operations if necessary.

F. Public Interest:

Grant of an authorization will permit Echodyne to develop innovative radar equipment.

G. Contact Information:

For questions, please contact:

Andrea Radosevich, General Counsel
Echodyne Corp.
12112 115th Ave NE
Kirkland, WA 98034
(206) 399-9793
andrea@echodyne.com

In the unlikely event interference concerns should arise during the period of authorization requested by this application, please contact the company’s “Stop Buzzer” identified below:

Mo Swanson
Echodyne Corp.
(410) 812-6340
mo@echodyne.com