

Echodyne Corp.
Application for Experimental Special Temporary Authority
ELS File No. 0746-EX-ST-2020

NARRATIVE STATEMENT

Pursuant to Section 5.3(j) and Section 5.61 of the FCC's rules, Echodyne Corp. hereby respectfully requests a special temporary authority ("STA") from June 1, 2020 to November 15, 2020 to operate in the 24.45-24.65 GHz band to test its EchoGuard radar.

A. Purpose of Operation and Need for Special Temporary Authority:

The EchoGuard radar has received equipment authorization from the FCC (FCC ID 2ANLB-MESASSR00053). However, Echodyne requests this STA to allow it to test the radar in specific scenarios in conjunction with customers. The STA is for testing purposes only and not for permanent installation of the radars. The testing under this STA is related to radiolocation applications.

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
Mesa, AZ	33° 28' 32" N 111° 43' 43" W	1 km
Big Sandy Range, AZ	34° 52' 5" N 113° 35' 23" W	5 km

The testing at Big Sandy Range is being done in conjunction with the US Army.

C. Technical Specifications:

1. Frequencies Desired

Echodyne requests authorization to operate in the 24.45-24.65 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 EchoGuard 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 would require approval under FAA or 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:

Echodyne has conducted a search of the FCC's Universal Licensing System database and determined that there are no licensed operations in the 24.45-24.65 GHz band. In the event that it 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.

In addition, Echodyne will advise entities using the equipment that permission to operate has been granted under experimental authority issued to Echodyne, that such operation is strictly temporary, and that the equipment may not cause harmful interference.

F. Public Interest:

Grant of an authorization will permit Echodyne to refine its innovative radar equipment and enhance public safety.

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