

**Echodyne Corp.**  
**Application for Experimental Special Temporary Authority**  
**ELS File No. 2166-EX-ST-2023**

**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 December 4, 2023 to June 4, 2024 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 Corp. 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.

<b>Location</b>	<b>Coordinates (NAD83)</b>	<b>Radius of Operation</b>
4075 Karg Industrial Pkwy, Kent, OH 44240	41° 5' 59 " N 81° 21' 33" W	5km

The testing is being done in conjunction with...

**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 Corp. will conduct the testing with a maximum of 4 units.

**D. Protection Against Causing Interference:**

Echodyne Corp 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 Mr. Matthew Felsen to act as the "stop buzzer" for this purpose.

**E. Restrictions on Operation:**

Echodyne Corp 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 Corp will advise entities using the equipment that permission to operate has been granted under experimental authority issued to Echodyne Corp, 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 Corp to refine its innovative radar equipment and enhance public safety.

**G. Contact Information:**

For questions, please contact:

Matthew Felsen  
Solutions Engineer  
Echodyne Corp.  
11212 115<sup>th</sup> Ave NE  
Kirkland, WA, 98034  
[spectrum@echodyne.com](mailto:spectrum@echodyne.com)  
[mfelsen@echodyne.com](mailto:mfelsen@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:

Matthew Felsen  
Solutions Engineer  
Echodyne Corp.  
11212 115<sup>th</sup> Ave NE  
Kirkland, WA, 98034  
[spectrum@echodyne.com](mailto:spectrum@echodyne.com)  
[mfelsen@echodyne.com](mailto:mfelsen@echodyne.com)