

**NARRATIVE STATEMENT
EXPEDITED ACTION REQUESTED**

Pursuant to Section 5.3(j) and Section 5.61 of the Federal Communications Commission's ("FCC") rules, Echodyne Corp. hereby respectfully requests a special temporary authority ("STA") from July 30, 2018 to January 29, 2019 to operate in the 24.45-24.65 GHz band to test a new radar developed by Echodyne Corp.

Grant of authority to test at the proposed locations will enable the company to demonstrate the capabilities of its radar technology for security applications.

As further described below, authority is needed to evaluate the performance of Echodyne's radar devices as part of a security system being installed at the site of this week's Super Bowl in Atlanta, Georgia. The temporary closure of the FCC's experimental licensing system prevented Echodyne from submitting this request before now. On January 18, 2019, Echodyne did submit a request for emergency action with the FCC's Operational Center given the importance of this demonstration to protect the safety of life and property.

In further support of this request, the following is shown:

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

Echodyne Corp., headquartered in Bellevue, Washington, is making high performance ultra-low cost, size, weight, and power electronically scanning radars based on its Metamaterial Electronically Scanning Array ("MESA"). This requested STA is to enable Echodyne and its partners to validate and improve the performance of the MESA-SSR for specific ground-based security scenarios.

Specifically, Echodyne seeks special temporary authority to operate two, low powered fixed radar transmitters in the immediate vicinity of Mercedes-Benz Stadium in Atlanta, Georgia. The radars are intended to be used as part of drone detection system that will be installed at the perimeter of the stadium to alert security personnel, including Federal officers, of any unidentified drone activity during Super Bowl XXXIV on February 3, 2019. This operation is intended to evaluate the performance of the radar alongside other sensors in a real-world environment. Installation of the drone detection system, and the radar units, is being conducted by Echodyne and Moog Inc., under the guidance and direction of the Federal Bureau of Investigation.

B. Location of Proposed Operation:

Echodyne proposes to test the radars on the ground within a specified area of operation in the immediate vicinity of Mercedes-Benz Stadium at the following location:

Location	Coordinates (NAD 83)	Radius of Operations
Atlanta, GA	33° 45' 20"N 084° 24' 3"W	1 kilometer

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 4W, and a peak maximum effective radiated power of 486W.

Echodyne will reduce the actual powers to the minimum power needed for successful operation, based on set-up and testing at the proposed locations. Operations will be conducted to comply with rules relating to human exposure to radiation.

3. Modulation and Emissions

Echodyne proposes to operate using linear FM modulation. The primary emission designator is 190MFXN. Other emission modes may be utilized, but in no event will the emissions 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 proposes to test its MESA-SSR radar. It expects that it will be able to conduct its testing with a maximum of 2 units.

D. Protection Against Causing Interference:

As noted above, Echodyne has requested authority to operate in the 24.45-24.65 GHz band. It has conducted a search of the Commission's Universal Licensing System ("ULS") database and determined that there are no licensed operations in that spectrum.

In the event that it receives a complaint of harmful interference resulting from the proposed operation, Echodyne will take immediate action to address the interference, including if necessary, discontinuing operations. The company has designated Mr. Jeff Finan, whose contact information is provided below, to act as the "stop buzzer" for this purpose.

Furthermore, the length of the test period is short, extending only from July 30, 2018 to January 29, 2018. During that period, the proposed operations will be limited in scope. Echodyne will on average transmit for only 240 minutes over a period of 8 hours on not more than 5 days each week. In summary, the analysis conducted by Echodyne indicates the proposed operation should not interfere with any licensed operation.

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 if necessary arranging for the discontinuance of operation.

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. Entities will also be advised in accordance with Section 2.803 of the Commission's rules, 47 C.F.R. §2.803, that any unapproved devices have not been authorized as required by the rules of the FCC.

F. Public Interest:

Grant of an authorization will permit Echodyne to develop innovative radar equipment that will enhance public safety.

G. Contact Information:

For questions, please contact:

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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:

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