

URSA Inc.
Application for Experimental Special Temporary Authority
STA File No. 0019-EX-ST-2022

NARRATIVE STATEMENT

Pursuant to Section 5.3(j) and Section 5.61 of the FCC’s rules, URSA Inc. hereby respectfully requests a special temporary authority (“STA”) from January 7th, 2022 to March 15th, 2022 to operate in the 24.45-24.65 GHz band to operate an 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, URSA Inc. requests this STA to allow it to operate the radar in specific scenarios in conjunction with state and Federal law enforcement agencies. The STA is for temporary investigation purposes only and not for permanent installation of the radar. The operation under this STA is related to radiolocation applications.

B. Location of Proposed Operation:

URSA Inc. proposes to operate the radar at a fixed location within the area described below.

Location	Coordinates (NAD83)	Radius of Operation
Portsmouth, NH	43.0727, -70.7400	2km

The operation is being done in conjunction with New Hampshire State Police, Naval Criminal Investigative Service, U.S. Coast Guard, City of Portsmouth

C. Technical Specifications:

1. Frequencies Desired

URSA Inc. requests authorization to operate in the 24.45-24.65 GHz band.

2. Effective Radiated Power

The unit 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

URSA Inc. will conduct the operation with a maximum of 1 units.

D. Protection Against Causing Interference:

URSA Inc. 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, URSA Inc. will take immediate action to address the interference. The company has designated Mr. David Kovar (contact information below) to act as the "stop buzzer" for this purpose.

E. Restrictions on Operation:

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

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

F. Public Interest:

Grant of an authorization will permit URSA Inc. to assist state and Federal law enforcement agencies in their investigation of suspicious UAV activities.

G. Contact Information:

For questions, or in the unlikely event interference concerns should arise during the period of authorization requested by this application, please use the following information:

Name: David Kovar
Address: URSA Inc, 38A Cross Rd., Exeter NH 03833
Phone number: 650-278-1774
Email: dkovar@ursasecure.com