

BlackSea Technologies
Application for Experimental Special Temporary Authority
ELS File No. 1749-EX-ST-2026

NARRATIVE STATEMENT

Pursuant to Section 5.3 and Section 5.61 of the FCC's rules, BlackSea Technologies hereby respectfully requests a special temporary authority ("STA") from Sep 15th, 2026 to January 1st, 2027, to operate in the 15.7-16.55 GHz and 24.45-24.65 GHz band to operate its radars.

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

Echodyne has received equipment authorization from the FCC for the EchoGuard radar (FCC ID 2ANLB-MESASSR00053) and the EchoShield radar (FCC ID 2ANLB-MESA00054). However, BlackSea Technologies 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 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
Curtis Bay, MD	39° 14' 43.0" N 76° 34' 21.2" W	10 km

C. Technical Specifications:

1. Frequencies Desired

BlackSea Technologies requests authorization to operate in the 15.7-16.55 GHz and 24.45-24.65 GHz bands.

2. Effective Radiated Power

The EchoGuard units to be deployed operate at a peak maximum transmitter power output of 3.2W, and a peak maximum effective radiated power of 246W. The EchoShield units to be deployed operate at a peak maximum transmitter power output of 180W, and a peak maximum effective radiated power of 55 KW. 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 primary emission designator is 47M1F3N. The EchoShield radar operates using pulsed linear frequency

modulation. The primary emission designator is 57M6Q3N. 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

BlackSea Technologies will conduct the testing with a maximum of 4 units.

D. Protection Against Causing Interference:

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

E. Restrictions on Operation:

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

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

F. Public Interest:

Grant of an authorization will permit BlackSea Technologies to demonstrate its innovative radar equipment and enhance public safety as well as provide evaluation for collaborative technologies in support of US Government requirements.

G. Contact Information:

For questions, or 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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