

Florida State Guard
Application for Experimental Special Temporary Authority
ELS File No. 1841-EX-ST-2026

NARRATIVE STATEMENT

Pursuant to Section 5.3 and Section 5.61 of the FCC's rules, Florida State Guard hereby respectfully requests a special temporary authority ("STA") from 01 October 2026 to 01 March 2027, to operate in the 15.7-16.55 GHz band to operate its radars.

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

Florida State Guard has received equipment authorization from the FCC for the EchoShield radar (FCC ID 2ANLB-MESA00054). However, Florida State Guard 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:

Florida State Guard proposes to test the radar at a fixed location within the area described below.

Location	Coordinates (NAD83)	Radius of Operation
Tallahassee, FL	30°25'37.1"N 84°08'41.6"W	15 km

C. Technical Specifications:

1. Frequencies Desired

Florida State Guard requests authorization to operate in the 15.7-16.55 GHz band.

2. Effective Radiated Power

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 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

Florida State Guard 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, Florida State Guard will take immediate action to address the interference. The company has designated Jesse Cortez (contact information below) to act as the “stop buzzer” for this purpose.

E. Restrictions on Operation:

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

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

F. Public Interest:

Grant of an authorization will permit Florida State Guard to demonstrate its innovative radar equipment and enhance public safety.

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:

Jesse Cortez
Chief UAS Pilot
Florida State Guard
jesse.cortez@fsg.fl.gov

850-518-2141