

Trust Automation Inc.
Application for Experimental Special Temporary Authority
ELS File No.

NARRATIVE STATEMENT

Pursuant to Section 5.3 and Section 5.61 of the FCC's rules, **Trust Automation Inc.** hereby respectfully requests a permit to operate in the 15.7-16.55 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 EchoShield radar (FCC ID 2ANLB-MESA00054). However, Trust Automation requests this permit to allow it to test the radar in specific scenarios in conjunction with the **Air Force Research Laboratory**. The permit is for testing purposes only and not for permanent installation of the radars. The testing under this permit is related to radiolocation applications.

B. Location of Proposed Operation:

Trust Automation Inc. proposes to test the radar at a fixed location within the area described below.

Location	Coordinates (NAD83)	Radius of Operation
San Luis Obispo	35°14'16"N 120°40'31"W	2 km

C. Technical Specifications:

1. Frequencies Desired

Trust Automation requests authorization to operate in the 15.7-16.55 GHz bands.

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 **50M0Q3N**. 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

Trust Automation Inc. will conduct the testing with a maximum of **12** units.

D. Protection Against Causing Interference:

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

E. Restrictions on Operation:

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

In addition, **Trust Automation Inc.** will advise entities using the equipment that permission to operate has been granted under experimental authority issued to **Trust Automation 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 **Trust Automation Inc** to demonstrate its innovative **Counter Small Unmanned Aircraft Systems** 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:

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