

APPLICATION FOR EXPERIMENTAL AUTHORITY

Anduril Industries respectfully requests authority to operate 2 Crypticvector Radars, 4 RADA RPS-42s, and 4 RADA RPS-82s radars at locations near Brewster County, Texas.

The radars would use the bands: 3300-3400 MHz. Experimental operation of the radars would allow Anduril Industries to characterize the system's detection performance and better understand the radars capabilities when paired with uncrewed aircraft systems and unmanned ground vehicles.

The RADA systems will be used to provide location data on the UAS and provide a baseline of ground system capabilities in a similar frequency band as the airborne system. The airborne system will be novel in use and be assessed on its current capabilities.

1. Company Background

Anduril Industries is a limited liability company specializing in technological innovation. This submission includes confidential and proprietary information related to technological advancements in radio communications. Anduril Industries' address of record and Registration Number are as follows:

Anduril Industries

1400 Anduril

Costa Mesa, CA 92626

FRN: 0028824514

2. Station Location

In Brewster County, Texas, Anduril Industries will operate radars proximate to coordinates 29-54-29.57 N, 102-46-16.54 W.

The Rada systems would be fixed on installation. While location is not determined at this time, as requestor assesses ground conditions and accessibility in the remote area, it will be within the requested 5 km from the provided point.

The Mobile Airborne Crypticvector radar will be tested on the ground and in the air, up to an altitude of 50k ft AGL within the area enclosed by these points.

¹ See 47 C.F.R. § 5.115.

Operating Location: Green shaded polygon in Class E and G airspace within west Texas, as depicted below and defined on Attachment 4.

The map displays the Laughlin 1 MOA area. A green polygon outlines the 2025-CSA-16952 boundary. Major roads shown include I-15, I-10, US-90, US-63, and US-118. Labels for Fort Shoshone, ZAB, ZHU, and Laughlin 1 MOA are present. The Colorado River is visible at the bottom.

Operations across the US/Mexico border is prohibited

30° 04'32.87"N 103° 33'33.73"W
30° 04'46.25"N 103° 09'53.38"W
30° 07'47.52"N 102° 59'03.62"W
30° 06'54.43"N 102° 37'35.77"W
30° 06'55.58"N 102° 09'13.60"W
30° 00'10.82"N 102° 09'18.60"W
29° 55'29.30"N 102° 22'55.72"W
29° 48'43.79"N 102° 25'06.53"W
29° 47'12.04"N 102° 39'06.77"W
29° 35'48.66"N 102° 54'32.98"W
29° 35'56.11"N 103° 02'02.58"W
29° 52'13.52"N 103° 36'17.08"W

¹ See 47 C.F.R. § 5.115.

3. Frequencies

The Radar radars would all use the following bands: 3300-3400 MHz. Anduril Industries will comply with any limitations applied to non-Federal users in these bands pursuant to the FCC Table of Frequency Allocations located at 47 C.F.R. § 2.106. Anduril Industries will operate with the minimum necessary power and bandwidth required to conduct its operations and will not exceed the power levels specified in this application and will operate with the emissions, modulation techniques, and frequency ranges specified in this application.

4. Safety

Anduril Industries will comply with FCC rules and regulations regarding the operation of transmitting antennas. All power levels will comply with the limits set forth in the FCC's rules, including those relating to human exposure to radiofrequency radiation. In addition, all personnel who will operate the equipment are knowledgeable as to the effects of radiofrequency energy and will have the ability to control their exposure.

5. Interference Protection

The proposed test location is some distance from sensitive locations like major airports or scientific facilities. Anduril Industries recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities. Anduril Industries also recognizes that its proposed operations may require coordination with existing licensees authorized on the requested frequencies.

Anduril Industries will fully coordinate and operate on a non-interference, non-protected basis with anyone affected or reasonably likely to be affected. Should interference occur, Anduril Industries will take immediate steps to resolve the interference. For instance, it will operate on another authorized frequency, provided such frequency is not within the restricted frequencies set forth in 47 C.F.R. § 15.205, or it will discontinue operation.

6. Restrictions on Operation

Anduril Industries recognizes that permission to operate under FCC experimental authority confers no long-term rights. Anduril Industries does not propose to market, sell, or lease equipment to end users or conduct a market trial in conjunction with these operations.

7. Request for Waiver of Station Identification Requirements

Anduril Industries requests a waiver of the station-identification requirements in section 5.115 of the Commission's rules.¹ Grant of the requested waiver will promote the public interest by allowing Anduril Industries to determine the most effective operating capabilities of the equipment as part of this operation.

¹ See 47 C.F.R. § 5.115.

8. Technical and “Stop Buzzer” Contact Information

If Anduril Industries must terminate operations due to any interference concerns, the technical and “stop buzzer” point of contact is as follows:

Benjamin Hall

Anduril Industries

1400 Anduril

Costa Mesa, California 92626

Telephone: (949) 845-6281

Email: spectrum@anduril.com

Alternate Email: bhall3@anduril.com

For these reasons, Anduril Industries respectfully requests approval of experimental authority.

¹ See 47 C.F.R. § 5.115.