

APPLICATION FOR EXPERIMENTAL AUTHORITY

Anduril Industries respectfully requests authority to operate 8 Furuno DRS25A-NXT, 8 TELEDYNE FLIR Radars Ranger R20SS, and 8 Echodyne EchoGuard radars at fixed locations near Fort Lauderdale, Florida, Rancho Palos Verdes, California, San Clemente, California, Camp Pendleton, California, Aguadilla, Puerto Rico, South Padre Island, Texas, Key West, Florida, and Ventura, California.

The radars would use the bands: 9300-9500 MHz, and 24450-24650 MHz. Experimental operation of the radars would allow Anduril Industries to conduct radio network research and better understand the radars capabilities when paired with uncrewed aircraft systems and surface vessels in both arid and humid coastal settings.

This application builds on a prior STA and runs through the scheduled conclusion of the USCG effort. The 20-month request reflects this timeline. Contract and POC information can be located if required by the commission, but as a subcontractor for this effort the specific contact and contract information is not immediately available. The government contract option was selected due to the origination and site locations of the effort, and to maximize transparency to the commission.

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

At U.S. Coast Guard Station Fort Lauderdale (Fort Lauderdale, Florida), Anduril Industries will operate radios at coordinates 26-05-21 N, 80-06-39 W. Operations at this site are fixed (no mobile operations under this STA).

At Point Vicente (Rancho Palos Verdes, California), Anduril Industries will operate radios at coordinates 33-44-30 N, 118-24-29 W. Operations at this site are fixed (no mobile operations under this STA).

At Trestles Beach (San Clemente, California), Anduril Industries will operate radios at

¹ See 47 C.F.R. § 5.115.

coordinates 33-23-20 N, 117-35-44 W. Operations at this site are fixed (no mobile operations under this STA).

At Del Mar Beach (Camp Pendleton, California), Anduril Industries will operate radios at coordinates 33-12-44 N, 117-24-11 W. Operations at this site are fixed (no mobile operations under this STA).

At Puerto Rico Coastal Site (Aguadilla, Puerto Rico), Anduril Industries will operate radios at coordinates 18-29-51 N, 67-08-55 W. Operations at this site are fixed (no mobile operations under this STA).

At South Padre Island (South Padre Island, Texas), Anduril Industries will operate radios at coordinates 26-04-25 N, 97-09-53 W. Operations at this site are fixed (no mobile operations under this STA).

At Key West (Key West, Florida), Anduril Industries will operate radios at coordinates 24-33-02 N, 81-48-21 W. Operations at this site are fixed (no mobile operations under this STA).

At Ventura (Ventura, California), Anduril Industries will operate radios at coordinates 34-17-11 N, 119-17-39 W. Operations at this site are fixed (no mobile operations under this STA).

Anduril Industries recognizes the potential aviation impact of the 80 ft height of the antennas. Each site was selected in part due to the relative proximity of geological and man-made features with heights extending above the intended installation, and the height was reduced to the minimum possible to permit optimal testing for the Coast Guard mission set.

3. Frequencies

The Furuno and TELEDYNE radars would use 9300-9500 MHz and the Echodyne radars would use 24450-24650 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 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

¹ See 47 C.F.R. § 5.115.

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 Camp Pendleton and Naval Air Station Key West. 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.

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:

James Miller

Anduril Industries

1400 Anduril

Costa Mesa, California 92626

Telephone: (949) 827-4993

Email: spectrum@anduril.com

¹ See 47 C.F.R. § 5.115.

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

¹ See 47 C.F.R. § 5.115.