

## APPLICATION FOR EXPERIMENTAL AUTHORITY

Anduril Industries respectfully requests authority to operate 1 Silvus Technologies SC4200EP, 1 Furuno DRS25A-NXT, and 1 Echodyne EchoGuard radios and radars at locations near Braintree, Massachusetts, USCG Station Cape Cod Canal, Scituate, MA, and Hull, MA.

The radios and radars would use the bands: 4400-4940 MHz, 9300-9500 MHz, 24450-24650 MHz. Experimental operation of the radios and radars would allow Anduril Industries to characterize the system's detection performance and better understand the radios and radars capabilities when paired with uncrewed aircraft systems and unmanned surface vessels.

### **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 Braintree, Massachusetts, Anduril Industries will operate radios and radars at coordinates 42-14-19 N, 070-58-18 W. The site is a fixed installation.

At USCG Station Cape Cod Canal (Barnstable County, MA), Anduril Industries will operate radios and radars at coordinates 41-46-23 N, 70-30-07 W.

At Scituate, MA, Anduril Industries will operate radios and radars at coordinates 42-12-02 N, 70-42-59 W.

At Hull, MA, Anduril Industries will operate radios and radars at coordinates 42-18-21 N, 70-53-56 W.

<sup>1</sup> See 47 C.F.R. § 5.115.

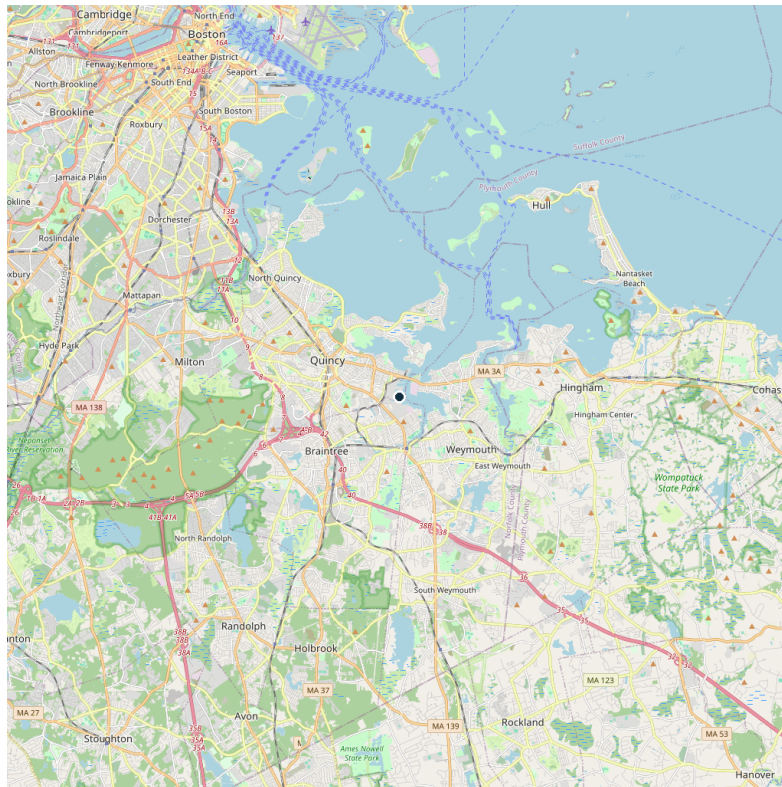


Figure 1. Braintree area of operation

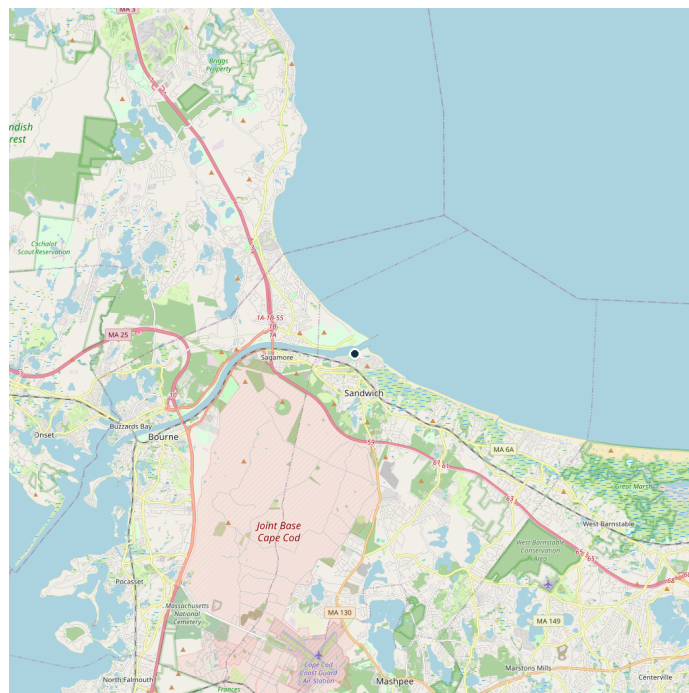


Figure 2. USCGC Station Cape Cod Canal area of operation.

<sup>1</sup> See 47 C.F.R. § 5.115.

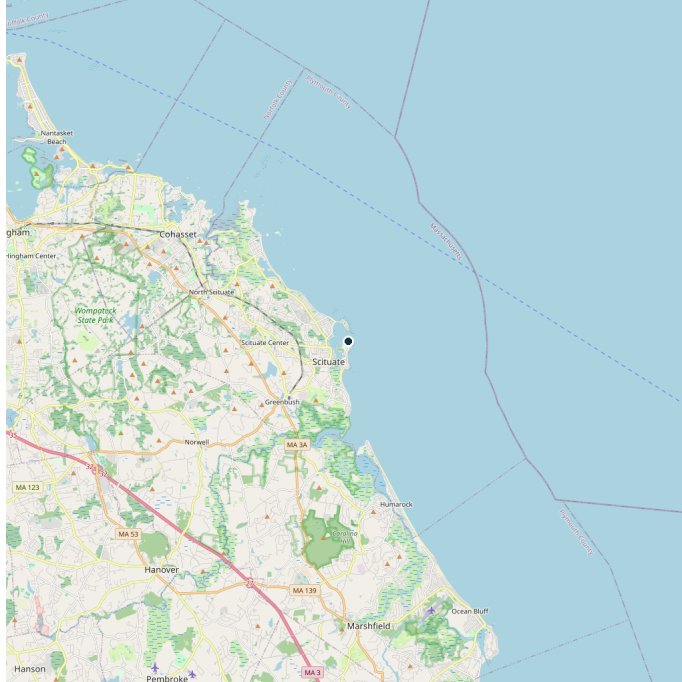


Figure 3. Scituate, MA area of operation.

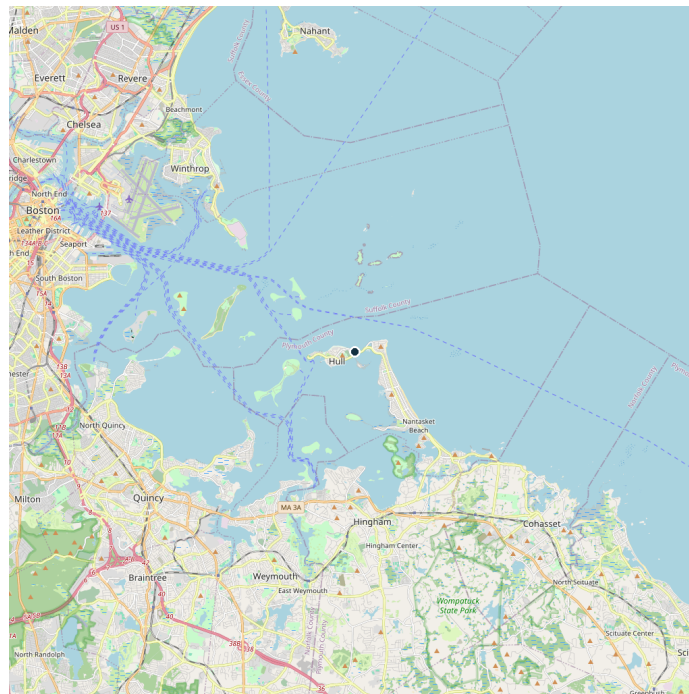


Figure 4. Hull, MA area of operation.

<sup>1</sup> See 47 C.F.R. § 5.115.

### **3. Frequencies**

The systems radars would use the following bands: 4400-4940 MHz, 9300-9500 MHz, 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 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. 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.<sup>1</sup> 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.

<sup>1</sup> 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:

James Miller

Anduril Industries

1400 Anduril

Costa Mesa, California 92626

Telephone: (949) 827-4993

Email: spectrum@anduril.com

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

<sup>1</sup> See 47 C.F.R. § 5.115.