

## APPLICATION FOR EXPERIMENTAL AUTHORITY

Anduril Industries respectfully requests authority to operate 6 Echodyne Echoshield, 6 Anduril Industries S1, 6 Anduril Industries S2, and 6 Elta Systems EL/M-2135 radars at locations near Garibaldi, Oregon, and Tillamook, Oregon.

The radios and radars would use the bands: 15700-17700 MHz, 15700-16600 MHz, 9400-10500 MHz, and 9700-10000 MHz. Experimental operation of the radars would allow Anduril Industries to characterize the system's detection performance and better understand the capabilities when paired with uncrewed aircraft systems in a coastal environment.

### 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 Barview Jetty (Garibaldi, Oregon), Anduril Industries will operate radars at coordinates 45-34-12.0 N, 123-57-21.6 W. The site is a fixed installation with all antennas under 6 meters in height.

At Tillamook Airport (KTMK) (Tillamook, Oregon), Anduril Industries will operate radars at coordinates 45-25-04 N, 123-48-50 W. The site is a fixed installation with all antennas under 6 meters in height. The installation is in coordination with airport authorities.

### 3. Frequencies

| Radar               | Frequency (GHz) |
|---------------------|-----------------|
| Anduril S1          | 9.4 – 10.5      |
| Anduril S2          | 15.7 - 17.7     |
| Echodyne Echoshield | 15.7 – 16.6     |
| Elta 2135           | 9.7 – 10.0      |

<sup>1</sup> See 47 C.F.R. § 5.115.

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 proximate to a low volume airport at KTMK. This effort is being installed in coordination with airport authorities. In addition to that coordination, 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. Minimum power and bandwidth required for operations will always be used. 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](mailto:spectrum@anduril.com)

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

<sup>1</sup> See 47 C.F.R. § 5.115.