

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY (STA)

Anduril Industries, Inc. respectfully requests authority to operate 4 Persistent Systems MPU5, 4 Silvus SC4200EP, 4 Anduril SURFR, and 6 Doodle Helix radios near Ventura, California.

The radios would use the bands: 420-434 MHz, 902-928 MHz, 1785-1850 MHz, 2200-2280 MHz, 2280 MHz, 2395-2450 MHz, 2395-2480 MHz, 2395-2507 MHz, 4430-4940 MHz, and 5725-5850 MHz.

Experimental operation of the radios would support internal research and development of UAS and surface systems designed for use by the U.S. Department of Defense. These systems combine UAS with radios in novel ways for technological development.

1. Company Background

Anduril Industries, Inc. 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, Inc.'s address of record and Registration Number are as follows:

Anduril Industries, Inc.

1400 Anduril

Costa Mesa, CA 92626

FRN: 0028824514

2. Station Location

Anduril Industries, Inc. will conduct the proposed operations near Ventura, California at an area centered at coordinates 34-15-05 N, 119-15-57 W. The operating area extends to a radius of 18.52 km from this point, up to 2,500 feet AGL. The equipment is mobile, and no directional antenna is proposed. Ground elevation at the center point is 4.4 m above mean sea level. The nearest aircraft landing area is Oxnard Airport, approximately 7.18 km away from the center point.

3. Frequencies

The requested systems, frequency ranges, and emission designators are summarized below:

Emitter	Frequencies	Emission Designators
Persistent Systems MPU5	2395-2507 MHz 4430-4940 MHz	4M06D1D 8M91D1D 17M8D1D
Anduril SURFR	420-434 MHz 902-928 MHz 1785-1850 MHz 2280 MHz	500KF1D

¹ See 47 C.F.R. § 5.115.

	2395-2450 MHz 5725-5850 MHz	
Silvus SC4200EP	2395-2480 MHz 4430-4940 MHz	5M64D7W 11M3D7W 22M6D7W
Doodle Helix	2200-2280 MHz	20M0D7W

Anduril Industries, Inc. 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. section 2.106. Anduril Industries, Inc. will operate with the minimum necessary power to conduct its operations and will not exceed the power levels specified in this application or operate outside the emissions, modulation techniques, and frequency ranges specified in this application.

4. Safety

Anduril Industries, Inc. 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 removed from major radiocommunications facilities. Anduril Industries, Inc. recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities at or near the site. Anduril Industries, Inc. also recognizes that its proposed operations may require coordination with existing licensees authorized on the requested frequencies.

Anduril Industries, Inc. 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, Inc. 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. section 15.205, or it will discontinue operation.

6. Restrictions on Operation

Anduril Industries, Inc. recognizes that permission to operate under experimental authority confers no long-term rights. Anduril Industries, Inc. 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, Inc. requests a waiver of the station-identification requirements in section 5.115 of the Commission's rules. Grant of the requested waiver will promote the public interest

¹ See 47 C.F.R. § 5.115.

by allowing Anduril Industries, Inc. 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, Inc. must terminate operations due to any interference concerns, the technical and "stop buzzer" point of contact is as follows:

James Miller

Anduril Industries, Inc.

1400 Anduril

Costa Mesa, California 92626

Telephone: (949) 827-4993

Email: spectrum@anduril.com

For these reasons, Anduril Industries, Inc. respectfully requests approval of Special Temporary Authority.

¹ See 47 C.F.R. § 5.115.