

To: Lauren French
E-Mail: lfrench@anduril.com
From: Nimesh Sangani
Date: May 04, 2021

Subject: Additional Information Request

Message:

Please address the following questions and concerns:

1) The 3D Radar is installed on the drone. Please provide the altitude of the drone from the ground (in feet):

MOBILE: White Sands Missile Range at Brillo West Test Site, attitude xxxxx feet, within 25 km , centered around NL 32-57-29; WL 106-32-25

Frequency	Station Class	Emission Designator	Authorized Power
77 - 77.46 GHz	MO	460MF8N	83mW (ERP)

2) Please provide the name and call sign for the point of communication (satellites) operating in the 420-460MHz, 902-928MHz, 1559-1610 MHz, 2400-2485MHz, and 5725-5850MHz bands

3) The APPLICATION FOR EQUIPMENT FREQUENCY ALLOCATION (DD 1494) does not have the TRANSMITTER EQUIPMENT CHARACTERISTICS for the proposed frequency band 1559-1610 MHz. Please clarify and explain why there is need of operation of this L/GPS band? Please note that: the 1575.42 MHz and 1575.42 MHz bands are downlink frequency bands; therefore, please remove these bands. For the transmitted band 1602.5625 - 1607.625 MHz, the power of 28.3 dBm is 0.676083 W (0.5 dBW EIRP). Please correct.

4) Please confirm. Is this an outdoor radio test using an unlicensed UNII-3 band (5725-5850 MHz)? if so, the maximum outpour power is 1 Watt (30dBm); thus, please change the power from 10W to 1W (ERP) for the 5725-5850 MHz band.

5) Please clarify and correct the frequency band, emission designators, and power levels in according with applicant's response on April 14, 2021 as below:

Software Defined Radio (Anduril Industries, Inc. PULSAR)

Frequency	Station Class	Emission Designator	Authorized Power
420-460 MHz	MO	25K0FXN	10W (ERP)
902-928 MHz	MO	300K0FXN	10W (ERP)
2400-2485 MHz	MO	10M0WXN	10W (ERP)
5725-5850 MHz	MO	20M0WXN	10W (ERP)

3D Radar (Anduril Industries 101-3575)

Frequency	Station Class	Emission Designator	Authorized Power
77 - 77.46 GHz	MO	460MF8N	83mW (ERP)

Radio

Frequency	Station Class	Emission Designator	Authorized Power
1602.5625 -1607.625 MHz	MO	511KW2D	0.676083 W (ERP)

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of May 04, 2021 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

DO NOT Reply to this email by using the 'Reply' button. In order for your response to be processed expeditiously, you must upload your response via the Internet at <https://apps.fcc.gov/oetcf/els/index.cfm> by clicking on the "Reply to Correspondence" hyperlink.

Responses to this correspondence must contain the Reference number : 61681