

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
CERTIFICATE OF WAIVER

ISSUED TO

Alare Technologies LLC.
Responsible Party: Patrick Ailes
Waiver Number: 107W-2024-04441

ADDRESS

5898 Condor Dr #100
Moorpark, CA 93021

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate, except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Small Unmanned Aircraft System (sUAS) operations higher than 400 feet above ground level (AGL), when not within a 400 foot radius of a structure.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

14 CFR § 107.51(b)—Operating limitations for small unmanned aircraft (sUA) - Altitude

STANDARD PROVISIONS

1. A copy of the application, made for this certificate, shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE—This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above.
It does not constitute a waiver of any State law or local ordinance.

SPECIAL PROVISIONS

Special Provisions 1 to 21, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from March 10, 2025, to March 09, 2027, and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

Adam Vetter
Tactical Operations Manager
FAA Western Service Center

**SPECIAL PROVISIONS ISSUED TO
Alare Technologies LLC.**

General.

This Certificate of Waiver is an amendment which supersedes and replaces Waiver 107W-2024-03030 issued to Alare Technologies LLC. for operations under 14 CFR § 107. Waiver 107W-2024-03030 is no longer valid.

The FAA's Flight Standards Service has reviewed your application to ensure compliance with the requirements of 14 CFR § 107.200 and § 107.205. Pursuant to these authorities, the Administrator finds that the proposed sUAS operation can be conducted safely under the provisions of this Certificate of Waiver (Waiver) as listed below because you have established adequate mitigations for risks involved with operating your sUAS in the manner you described. Adherence to the provisions of this Waiver establishes the required level of safety within the national airspace system.

The Administrator may cancel this Waiver at any time. As a general rule, this Waiver may be canceled when it is no longer required, there is an abuse of its provisions, or when unforeseen safety factors develop. Failure to comply with any provision listed below is a violation of the terms of this Waiver and will serve as justification for cancellation.

List of Regulations Waived by Section and Title. The following regulations are waived:

14 CFR § 107.51(b), Operating limitations for small unmanned aircraft - Altitude, is waived to allow sUAS operations higher than 400 feet AGL, not to exceed 1,199 feet AGL.

No part of this Waiver will function as an airspace authorization under 14 CFR § 107.41. The FAA's Air Traffic Organization responds directly to such requests. The FAA LAANC system cannot be used for waived operations.

Common Special Provisions: The Responsible Person is directly responsible for safety of operations conducted under this Waiver and will ensure the Remote Pilot in Command (PIC), manipulator of the controls, and Visual Observers (VO)¹ comply with all provisions of this Waiver.

1. The Responsible Person listed on the Waiver is responsible to the FAA for the safe conduct of the operations. Prior to conducting operations that are the subject of this Waiver, the Responsible Person:
 - a. Must ensure the PIC, manipulators of the controls, and VO are informed of the terms and provisions of this Waiver and the strict observance of the terms and provisions herein;
 - b. Must ensure the PIC, manipulators of the controls, and VO are informed of, and familiar with, Part 107 regulations; and
 - c. Evidence of the above (a and b) must be documented and must be presented for inspection upon request from the Administrator or an authorized representative;
2. This Waiver must not be combined with any other waiver(s), authorization(s), or exemption(s) without specific authorization from the FAA;

¹ Title 14 CFR § 107.3 defines the term "visual observer." Any VO participating in operations conducted under this Waiver must meet the requirements listed in § 107.33 throughout the duration of flight operations.

3. The FAA has the authority to cancel or delay any or all flight operations if the safety of persons or property on the ground or in the air are in jeopardy or there is a violation of the terms of this Waiver;
4. A copy of this Waiver must be accessible and available to the PIC at the ground control station during sUAS operations that are the subject of this Waiver;
5. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in operations under this Waiver. This list must be presented for inspection upon request from the Administrator or an authorized representative;
6. The Responsible Person listed on this Waiver must maintain a current list of sUA by registration number(s) used in operations under this Waiver. This list must be presented for inspection upon request from the Administrator or an authorized representative;
7. For the purposes of this Waiver, direct participants are the PICs, persons manipulating the controls, VOs, and any persons whose involvement is necessary for safety of the sUAS operation. All other persons are considered non-participants;
8. If a discrepancy exists between the provisions in this Waiver and the waiver application, the Waiver takes precedence and must be followed;

Operations higher than 400 feet AGL Special Provisions: sUAS operations may be conducted above 400 feet AGL, not to exceed 1,199 feet AGL, provided:

9. Operations may not be conducted at night or during civil twilight, as defined in 14 CFR § 1.1 and § 107.29(c), respectively;
10. Visual Observers: All operations conducted under this Waiver must use one or more VO as described in the waiver application;
11. NOTAM: The Responsible Person must file a Notice to Airmen (NOTAM) no more than 72 hours and no less than 24 hours prior to operating under this Waiver. A NOTAM can be filed by calling 1-877-487-6867 (1-877-4-US-NTMS); and must include the location and/or operating area, altitude, time, nature of the activity, Waiver and/or COA number, PIC name and contact information. The Responsible Person must verify the NOTAM has been issued prior to conducting waived operations;
12. ADS-B out (1090/978 MHz) may not be transmitted from the sUAS when operating pursuant to this Waiver. ADS-B in must be operational and monitored during all operations pursuant to this Waiver;
13. Radio Communications on ATC Frequencies: If conducted, the PIC must:
 - a. Hold an appropriate FCC Ground Station operators license;
 - b. Provide a copy of this Waiver to local ATC for towered airports;
 - c. Monitor the local aircraft frequency radio channels within a 3SM radius of a non-towered airport and announce the initiation and termination of operations, location, and operational altitude;

- d. Communicate with ATC when within the control radius of a towered airport and monitor the local aircraft frequency; and
 - e. Use the phraseology and protocol described in FAA Joint Order JO 7110.65BB, Chapter 2, Section 4;
14. Operations Manual: The Responsible Person must update or revise the operations manual (aka CONOPs) submitted with the waiver application for changes in the operation. The Responsible Person must track such revisions and present revised documents to the Administrator or an authorized representative upon request. The Responsible Person must also present revised documents when applying for extension of, or amendment to this Waiver. If any revision to the manual would be contrary to the information provided in the waiver application, or obviate a condition or limitation of this Waiver, then the Responsible Person must apply for an amendment to this Waiver;
15. Ground Control Station (GCS), Control and Communications (C2) System:
- a. Telemetry: The sUAS ground control station must display in real-time the sUA altitude, position, direction of flight, ground speed, C2 signal strength, battery condition, and sUA distance from the control station as described in the waiver application;
 - b. Alerting: The PIC must ensure the GCS is configured to audibly and/or visually alert the PIC of degraded system performance, geofence loss of containment, loss of Control Link with the sUA, and intrusion alerts as described in the waiver application;
 - c. Emergency Profiles: The PIC must ensure the GCS is configured for automated emergency actions (e.g. RTL/RTH, altitude descend, position hold, etc.) as described in the waiver application; and
 - d. Sensors: The PIC must ensure any installed collision/obstacle avoidance sensors are operational;
16. As described in the waiver application, when operating within 5 statute miles of any airport, airport management must be notified prior to the sUAS operation. A method of radio or telephone communication with airport management must be established, and the PIC or VO must monitor the airport's common traffic advisory frequency;
17. Unmanned Aircraft Systems (UAS):
- a. Operations conducted under this Waiver may only occur with the make and model sUAS as described in the waiver application;
 - b. Additional UAS may be added to the operation as long as:
 - 1) The operational parameters and procedures will remain as described in the waiver application and supporting documentation. Any changes to the procedures required to incorporate the new UAS will require an Amendment request;
 - 2) The new system can be operated under the Operational and Environmental Special Provisions as stated in the Waiver;
 - 3) The technical ability of the UAS to comply with the Waiver Special Provisions must remain unchanged. All UAS used under this Waiver must be in compliance with the GCS, C2, ADS-B, Anti-Collision lighting, Emitter, Maintenance, and any DAA requirements stated in the Waiver Special Provisions; and

- 4) The Responsible Person maintains a list of UAS eligible for use under this Waiver that includes the make and model of the UAS, date added to the list and name of the person who affirms compliance with the stipulations of this provision. This list must be made available to the Administrator on request;
18. Anti-Collision Lighting: The sUA must be equipped with High Visibility Markings and/or anti-collision lighting to increase conspicuity of the sUA in order to be seen by crewmembers in other aircraft from a distance of no less than 1 statute mile for daytime operations;
19. UAS Maintenance: All sUAS operations conducted in accordance with this Waiver must comply with all manufacturer recommendations and limitations for the sUAS:
- a. The Responsible Person must maintain each sUAS and its components in accordance with manufacturer's instructions and recommendations. sUAS maintenance includes scheduled and unscheduled overhaul, repair, inspection, modification, replacement, and system software upgrades of the sUAS and its components necessary for flight;
 - b. A log of all maintenance performed must be kept for each aircraft operated under this Waiver. This log must be available to the PIC for review prior to conducting operations that are the subject of this Waiver. Each sUAS maintenance log must be presented to the Administrator when requested. The log must contain the following information for each maintenance activity:
 - 1) A description (or reference data acceptable to the Administrator) of work performed;
 - 2) The date of completion of the work performed;
 - 3) The name of the person who performed the work; and
 - 4) The signature of the person who performed the work;
 - c. Any sUAS that has undergone maintenance must undergo a functional test flight prior to conducting operations under this Waiver. The functional test flight may only be conducted under the standard requirements of Part 107 (without waiver). A log entry must be made for each functional test flight.
The log entry must contain at minimum the:
 - 1) Calendar date;
 - 2) sUA registration number;
 - 3) PIC who performed the functional test flight;
 - 4) Duration of the flight; and
 - 5) The result of the functional flight test
20. All emitters used in the sUAS must be in compliance with all applicable FCC regulations and all provisions of the FCC authorization granted for the emitter. A FCC experimental authorization may not be used for sUAS operations under this Waiver; and

21. Operations conducted under this Waiver are limited to the Operations Area described in the waiver application (see description and images below).

Polsa Rosa Ranch, Ravenna, California: $34^{\circ} 25' 56.34''$ N, $118^{\circ} 14' 30.11''$ W (in **Green**)

At or Below: 1,199 feet AGL

Radius: 0.30 Nautical Mile



