

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

ISSUED TO

**Jack Hawkins**  
**Responsible Person: Jack Hawkins**  
**Waiver Number: 107W-2024-01160**

ADDRESS –

**2724 Stonegate Ct**  
**Midlothian, VA 23113**

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 provisions contained in this certificate.

OPERATIONS AUTHORIZED

Operating Limitations for Small Unmanned Aircraft — Groundspeed.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

**14 CFR § 107.51(a)—Operating limitations for small unmanned aircraft - Groundspeed**

**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 Nos. 1 to 21, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from June 27, 2024, to April 30, 2026, and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

**BY DIRECTION OF THE ADMINISTRATOR**

**Emerging Technologies Division, AFS-700**

**SPECIAL PROVISIONS ISSUED TO**  
**Jack Hawkins**

**General.**

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 small unmanned aircraft (sUA) 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 sUA 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(a), Operating limitations for small unmanned aircraft - Groundspeed, is waived to allow sUA operations with a groundspeed in excess of 87 kts (100 mph).

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 requests for such authorizations.

**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 (remote PIC), manipulator of the controls, and visual observer(s) (VO)<sup>1</sup> 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 remote PIC, manipulators of the controls, and VO(s) are informed of the terms and provisions of this Waiver and strictly observe the terms and provisions herein;
  - b. Must ensure the remote PIC, manipulators of the controls, and VO(s) are informed 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 may not be combined with any other waiver(s), authorizations(s), or exemption(s) without specific authorization from the FAA;
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 remote PIC at the ground control station during sUA operations that are the subject of this Waiver;

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<sup>1</sup> 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.

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 remote PICs, persons manipulating the controls, VOs, and any persons whose involvement is necessary for safety of the sUA 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;

**Operating Limitations for Small Unmanned Aircraft Groundspeed Special Provisions** sUAS operations exceeding 87 knots (100 mph) may be conducted, provided

## **OPERATIONAL PROVISIONS**

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. All operations under this Waiver must use one or more VO as described in the Waiver application;
11. The sUA must not exceed
  - a. 139 knots (160 mph); and
  - b. 200 feet above ground level (AGL) while being operated under Low Stress Testing conditions at the sites stated in the Waiver application; or
  - c. 350 feet above ground level (AGL) while being operated under High Stress Testing conditions at the sites stated in the Waiver application; and
  - d. The sUA groundspeed limitation stated in § 107.51(a) during any non-straightline flight, and when returning to the sUA landing location described in the waiver application
12. The remote PIC must ensure:
  - a. Prior to conducting operations under this Waiver, a documented site survey is performed to identify operational area obstacles and boundaries so as to avoid collision with, or damage to property
  - b. Routes are preplanned (using waypoints) prior to flight and aircraft are programmed to automatically follow the route. Manual flights are allowed as necessary;
  - c. Geofencing is used to confine the Operational Volume;
  - d. Return to Home/Return to Land feature must not allow the sUA to deviate from the defined operational volume;
  - e. Launch or recovery areas are pre-designated and monitored to keep any human being who is not directly participating in the operation out of the areas prior to, during, and immediately following flight operations;
  - f. Prior to operations that are the subject of this Waiver, the sUAS must be inspected for condition and determined to be safe for flight;
  - g. Prior to sUA operations that are the subject of this Waiver, the sUA "failsafe" must be tested and verified to operate as described in the waiver application;

13. During operations that are the subject of this Waiver, the sUA groundspeed, altitude, and location must be monitored and communicated to the remote PIC, as described in the waiver application;
14. Prior to operations under this Waiver, all Direct Participants must attend a safety briefing that addresses, at minimum, the following items as applicable:
  - a. Designated positions, physical locations, responsibilities, and Crew Resource Management,
  - b. Planned flight operating area,
  - c. Designated launch and recovery areas,
  - d. Verification of geo-fence boundaries,
  - e. Verification of return home and land flight profile, and course,
  - f. Procedures for avoidance of other aircraft and obstacles,
  - g. Procedures for operating under this waiver,
  - h. Land vehicle speed,
  - i. Intended flight path,
  - j. Abnormal procedures, and
  - k. Emergency procedures;
15. As described in the waiver application, flight operation of the sUA must be immediately terminated if non-participating persons, vehicles, or aircraft enter the area established for the purposes of operations that are the subject of this Waiver;
16. The Responsible Person must email a report within seven days to 9-AVS-AFS-750-Part107Reports@faa.gov if any of the following occur:
  - a. Incident,
  - b. Accident,
  - c. Lost link,
  - d. Or failsafe event;

## TECHNICAL PROVISIONS

17. The sUAS ground control station must display in real-time the sUA altitude, position, direction of flight, and sUA flight mode, and be configured to audibly or visually alert the remote PIC of degraded system performance and loss of Control link with the sUA. This information must be available at all times to the remote PIC;
18. During operations that are the subject of this waiver, the sUA must be configured and equipped as described in the waiver application;
19. ADS-B out (1090/978 MHz) may not be transmitted from the sUAS when operating pursuant to this Waiver;
20. All emitters used in 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

## ENVIRONMENTAL PROVISIONS

21. Operations conducted under this Waiver are limited to the location(s) specified in the CONOPs document submitted with the waiver application.