

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

ISSUED TO

**M Dawgs**  
**Responsible Person: Sam Cullen**  
**Waiver Number: 107W-2025-02043**

ADDRESS –

**123 Langton St.**  
**San Francisco, CA 94103**

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

Small unmanned aircraft system (sUAS) operations at night and during civil twilight without anti-collision lights meeting the requirements of § 107.29(a)(2) & (b).

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

**14 CFR § 107.29(a)(2) & (b)—Anti-collision light requirement for operations at night and during periods of civil twilight**

**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 19, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from August 11, 2025, to August 25, 2025, 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 M Dawgs

### 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 § 107.29(a)(2) & (b), Operation at night, is waived to allow sUAS operations at night with alternate means of compliance for anti-collision light requirements.

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. The LAANC system may not be used for Airspace Authorizations for Waivered 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 (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), authorization(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;

**Waiver Specific Special Provisions.** sUAS operations may be conducted without anti-collision lighting under this waiver provided:

9. Visual Observers: All operations conducted under this Waiver must use one or more VO as described in the waiver application:
  - a. All VOs must receive documented training for their duties and responsibilities to include;
    - 1) Scanning of the Operational Volume for Air and Ground based intruders;
    - 2) Communications procedures and phraseology;
    - 3) Overall operations conducted under this Waiver;
  - b. Sufficient VO(s), defined as the minimum number of VO(s) required to continuously observe at least a 2 statute mile radius of airspace surrounding the sUA in flight, are;
    - 1) Used to identify any non-participating aircraft prior to their entry into the planned operational area;
    - 2) Must be able to determine the position, attitude, altitude, and direction of flight of the sUA.
    - 3) Physically located such that the remote PIC receives sufficient notice to ensure the UA remains well clear of all other aircraft;
    - 4) Physically located to notify the remote PIC of any moving vehicle or human presence that may pose a hazard to the operation;
10. The remote PIC (RPIC) must ensure:
  - a. Prior to conducting operations under this Waiver, the RPIC must perform a documented site survey to:
    - 1) Identify flight operational area obstacles and boundaries so as to avoid collision with, or damage to property;
    - 2) Validate C2 signal strength is sufficient for control through the entire route;
    - 3) Validate suitable launch/recovery site(s); and
    - 4) Complete and document a Flight Risk Assessment;
  - 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. (defined as the property lines of the assets or perimeter boundaries of the controlled access area or right of way specified in the Waiver application + maximum allowed altitude);
  - 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. Non-participant persons inside the operational area are notified of sUA operations; and
- g. Individuals directly participating in the operation of the sUAS must be easily identifiable visually (e.g., apparel, safety vests);

11. The Responsible Person must ensure:

- a. A copy of the Waiver application and Waiver is available to the remote PIC and all other direct participants prior to and during sUAS operations that are the subject of this Waiver;
- b. Each remote PIC who will conduct operations under this Waiver is trained in a manner that addresses the items listed in § 107.49(a) and in a manner that is consistent with how the sUAS will be operated under this Waiver. All training and demonstration for all remote PICs and VO(s) must be documented and made available upon request by the Administrator or an authorized representative. Training operations may only be conducted under the standard requirements of part 107 (without waiver).

The training must include:

- 1) sUA limitations;
- 2) sUA programming;
- 3) sUA operational procedures;
- 4) Abnormal procedures;
- 5) Air traffic avoidance procedures;
- 6) Crew Resource Management;

12. ADS-B out (1090/978 MHz) may not be transmitted from the sUAS when operating pursuant to this Waiver.

13. Shielded operations: The sUA must not exceed:

- a. 100 feet above ground level (AGL); and
- b. 100' foot radius of the Remote PIC; and
- c. 20' feet radius from VO(s);

14. Operations conducted under this Waiver may only occur with the make and model sUAS and software described in the waiver application. Proposed operations of any other manufacturer, make, model of sUAS or software will require a new waiver application or request to amend this Waiver;

15. Operations subject to this waiver must cease as soon as possible in a manner that does not jeopardize the safety of human beings, property or other aircraft, if, at any time:

- a. Safety of human beings or property on the ground or in the air is in jeopardy;
- b. Any failure to comply with the provisions of this Waiver exists;
- c. Full-duplex communications cannot be maintained between the remote PIC and any VO participating in the operation;

16. Safety Briefing: Prior to operations under this Waiver the remote PIC must perform a safety review 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;
17. Ground Control Station, 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, GPS or navigation system signal condition, battery condition, and sUA distance from the control station as described in the Waiver application;
  - b. Alerting: The remote PIC must ensure the GCS is configured to audibly and/or visually alert the remote 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 remote 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 remote PIC must ensure any installed collision/obstacle avoidance sensors are operational;
18. All emitters used in sUAS must be compliant with all applicable FCC regulations provisions of the FCC authorization granted for the emitter. An FCC Experimental authorization may not be used for sUAS operations under this Waiver; and
19. Environment:
  - a. Operations conducted under this Waiver are limited to the location as described in waiver application;
  - b. The Responsible Person must ensure that the area of operation is sterile as described in the waiver application.