U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER

ISSUED TO

Max Moerles Responsible Party: Max Moerles Waiver Number: 107W-2024-01663

ADDRESS

112 Whirlaway Drive Davenport, FL 33837

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 beyond the visual line of sight of the remote pilot in command (PIC); 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 §§ 107.31—Visual line of sight aircraft operation, and <u>14 CFR § 107.51(b)—Operating limitations for small unmanned aircraft (sUA)- Altitude</u> 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 32, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from August 29, 2024, to September 1, 2024, 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 Max Moerles

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 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 § 107.31, Visual line of sight aircraft operation, is waived to allow operation of the sUA beyond the direct visual line of sight of the Remote Pilot in Command (PIC);

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 1500 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 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 (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;

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.

- 2. This Waiver must 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 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;

Waiver Specific Special Provisions: sUAS operations beyond the visual line of sight (BVLOS) of the PIC and above 400 feet AGL, not to exceed 1500 feet AGL, provided:

OPERATIONAL PROVISIONS:

- 9. All operations under this Waiver must use one or more VO;
- 10. The PIC and VO(s) must be physically located at the sUAS operational location and must have an unobstructed view of a 2 nautical mile radius while the sUAS is in operation;
- 11. The Responsible Person must develop and follow an operations manual;
- 12. The Responsible Person must track any operations manual revision 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;
- 13. The Responsible Person must ensure a copy of the current operations manual is available to the PIC and all other direct participants prior to and during sUAS operations that are the subject of this Waiver;

- 14. The Responsible Person listed on this Waiver must ensure each PIC who will conduct operations under this Waiver is trained in a manner that addresses the items listed in § 107.49(a)-(e) and in a manner that is consistent with how the sUAS will be operated under this Waiver. All training and demonstration for all PICs and VOs 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:
 - a. sUA limitations and Programming,
 - b. sUA Normal and Abnormal operational procedures,
 - c. Air traffic avoidance procedures,
 - d. sUA Flight Training and Crew Resource Management, and
 - e. Demonstration of sUA ground and flight skills;
- 15. Prior to operations under this Waiver, all direct participants must attend a safety briefing that addresses at minimum, the following items:
 - 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. Verification of emergency landing site(s), land profile, and course,
 - g. Procedures for avoidance of other aircraft;
- 16. Operations subject to this Waiver must cease 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 PIC and any VO participating in the operation,
 - d. sUA control link is lost,
 - e. A non-participating aircraft enters the designated flight operating area,
 - f. GPS signal is lost, or
 - g. sUA GPS location information is degraded;
- 17. No sUA flight that occurs under this Waiver may carry the property of another for compensation or hire;
- 18. The Responsible Person must file a Notice to Air Mission (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 waivered operations;

TECHNICAL PROVISIONS:

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

- 20. All sUAS operations conducted in accordance with this Waiver must comply with all manufacturer recommendations and limitations for the sUAS;
- 21. The Responsible Person must maintain each sUA and its components in accordance with manufacturer's instructions and recommendations. sUA maintenance includes scheduled and unscheduled overhaul, repair, inspection, modification, replacement, and system software upgrades of the sUA and its components necessary for flight. 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 sUA maintenance log must be presented to the Administrator when requested. The log must contain the following information for each maintenance activity:
 - a. A description (or reference data acceptable to the Administrator) of work performed,
 - b. The date of completion of the work performed,
 - c. The name of the person who performed the work, and
 - d. The signature of the person who performed the work;
- 22. Any sUA that has undergone maintenance must undergo a functional test flight prior to conducting operations under this Waiver. The 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:
 - a. Calendar date,
 - b. sUA registration number,
 - c. PIC who performed the functional test flight,
 - d. Duration of the flight, and
 - e. The result of the functional flight test;
- 23. Prior to conducting operations under this Waiver, the PIC must ensure that the geo-fence system, telemetry system, associated flight control systems, and sensors, as described in the waiver application, operate properly;
- 24. The sUA must be equipped with High Visibility Markings and strobe lighting to increase conspicuity of the sUA in order to be seen by crewmembers in other aircraft from a distance of not less than 3 statute miles, as indicated in the waiver application;
- 25. As described in the waiver application, the sUAS ground control station must display in real time the following information: sUA altitude, position, direction of flight, and sUAS flight mode, and be configured to audibly or visually alert the PIC of degraded system performance and loss of Control Link with the sUA. This information must be available at all times to the PIC;
- 26. The sUAS must audibly and visually alert the PIC of degraded system performance, sUAS malfunction, or loss of Command and Control (C2) link between the ground control station and the sUA;
- 27. Prior to conducting operations under this Waiver, the PIC must determine all control links used in the sUAS, will maintain the ability to control the sUA at the maximum planned distance for the proposed operation. At all times during operations that are the subject of this Waiver, the PIC must maintain the ability to direct the sUAS to ensure compliance with the applicable provisions of this Waiver;

- 28. If the PIC loses command or control link with the sUAS, the sUAS must follow a predetermined route to either reestablish link or immediately recover/land at a predesignated location;
- 29. ADS-B out (1090/978 MHz) may not be transmitted from the sUAS when operating pursuant to this Waiver.
- 30. 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;

ENVIRONMENTAL PROVISIONS:

- 31. Launch or recovery areas must be 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. Flights over human beings are not authorized; and
- 32. Operations conducted under this Waiver are limited to the Operations Area described in the waiver application (see description and images below).

Ann Morrison Park, Boise, Idaho: 43° 36' 35.303" N, 116° 13' 09.032" W (in Green) At or Below: 1500 feet AGL Radius: 0.10 Nautical Mile



