

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

**TPS at Fort Mac, LLC Responsible Person: Brannon Anthony
Waiver Number: 107W-2016-01270**

ADDRESS

**315 Deshler Street SW
Atlanta, GA 30310**

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 in closed-set motion picture and television filming, in accordance with Title 14 CFR Part 107, except operations may be conducted from a moving vehicle in other than a sparsely populated area, at or below 200 feet above ground level.

Night sUAS operations.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

**14 CFR § 107.25(b) Operation from a moving vehicle or aircraft.
14 CFR § 107.29 Daylight operation**

STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative 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 October 13, 2017 to October 31, 2021, inclusive, and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

General Aviation and Commercial Division, AFS-800

**SPECIAL PROVISIONS ISSUED TO
TPS at Fort Mac, LLC**

General.

The FAA's Flight Standards Service has reviewed your application to ensure compliance with the requirements of 14 CFR § 107.200. 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.

This Waiver may be canceled at any time by the Administrator, the person authorized to grant the Waiver, or the representative designated to monitor a specific operation. 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 may serve as justification for cancellation.

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

14 CFR § 107.25(b), Operation from a moving vehicle or aircraft, is waived to allow operations of a sUAS from a moving land-based vehicle.

14 CFR § 107.29, Daylight operation is waived to allow sUAS operations at night.

Common 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, all Visual Observers (VOs), and land-based vehicle operator comply with all provisions of this Waiver.

1. All operations conducted under this waiver must at least one visual observer (VO), who must fulfill the requirements of 14 CFR § 107.33.
2. 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, all VOs, and land-based vehicle operator are informed of the terms and provisions of this waiver and adhere to the terms and provisions herein;
 - b. Must ensure the remote PIC, manipulators of the controls, all VOs, and land-based vehicle operator are informed and familiar with part 107 regulations not waived; and
 - c. The Responsible Person must keep a log of the communications that establish compliance with paragraphs 2(a) and 2(b). This log must be presented for inspection upon request from the Administrator or an authorized representative;

3. This Waiver must not be combined with any other waiver(s), authorization(s), or exemption(s) except those listed in this waiver without specific authorization from the FAA;
4. Operations under this Waiver may be combined with Airspace Authorization 2017-P107-ATO-15362. This Waiver does not authorize flight within any airspace that is not described in 2017-P107-ATO-15362;
5. The FAA has the authority to cancel or delay any or all flight in order to maintain safety or to ensure compliance with the terms of this Waiver;
6. The Responsible Person listed on this Waiver must maintain a current list of small unmanned aircraft (sUA) by registration number(s) used in the Responsible Person's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;
7. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in the Responsible Person's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;
8. A copy of this Waiver must be available during sUAS operations that are the subject of this Waiver;
9. The Responsible Person (RP) must ensure there is a means for hands-free, immediate duplex communications between the RP, remote PIC, and all VO's during any sUAS operations conducted in accordance with this Waiver.

§ 107.25 Operation from a moving vehicle or aircraft Special Provisions. A remote PIC may conduct operations of a sUAS from a land-based moving vehicle in accordance with the following conditions:

10. Prior to operations under this Waiver, all persons who will act as remote PIC, VOs, and land-based vehicle operator must participate in a safety briefing that addresses at minimum, the following items:
 - a) Designated positions and responsibilities/Crew Resource Management,
 - b) Flight operating area,
 - c) Land vehicle speed,
 - d) Obstacles,
 - e) Intended flight path,
 - f) Designated launch and recovery area,
 - g) Verification of geo-fence boundaries,
 - h) Normal procedures,
 - i) Abnormal procedures, and

- j) Emergency procedures;
11. The remote PIC must ensure the area ahead of the small unmanned aircraft immediately prior to the arrival of the aircraft to ensure no hazards are present;
 12. The remote PIC, the VO(s), and the person operating the moving land-based vehicle must be designated in advance of the commencement of the operation, and may serve only in a single role throughout the operation. For example, the person who operates the land-based vehicle may not simultaneously act as the VO;
 13. Any electronic communications conducted by the remote PIC, VO(s), or the land-based vehicle operator must be through the use of a hands-free full duplex communication device;
 14. The remote PIC and VO(s) must have an unobstructed field of view from the moving vehicle¹;
 15. The sUA lost link procedure must account for the dynamic location of the remote PIC. These procedures must include a safe flight termination method that accounts for a safe flight path around all obstacles, adverse weather conditions, non-participating aircraft, and non-participating persons on the ground that could be encountered during the operation;
 16. sUAS operations subject to this Waiver must occur at the location specified in the waiver application. The sUAS must be programmed with a geo-fence to prevent sUA flight outside the location described in the waiver application;

§ 107.29 Daylight operation Special Provisions. sUAS operations may be conducted at night as defined in 14 CFR § 107.1, provided:

17. Prior to conducting operations that are the subject of this Waiver, the remote PIC and VO must be trained, as described in the Waiver application, to recognize and overcome visual illusions caused by darkness, and understand physiological conditions which may degrade night vision. This training must be documented and must be presented for inspection upon request from the Administrator or an authorized representative;
18. The area of operation must be sufficiently illuminated to allow both the remote PIC and VO(s) to identify people or obstacles on the ground, and a daytime site assessment must

¹ The requirements of 14 CFR § 107.31 continue to apply to all operations conducted under this Waiver. Section 107.31 requires the remote PIC, VO(s), and person manipulating the flight controls of the sUAS to maintain the ability to observe with vision unaided by any device other than corrective lenses, to discern the sUA throughout the entire flight to know the sUA's location; determine the sUA's attitude, altitude, and direction of flight; observe the airspace for other air traffic or hazards; and determine that the sUA does not endanger the life or property of another.

be performed prior to conducting operations that are the subject of this Waiver, noting any hazards or obstructions; and

19. The sUA must be equipped with lighted anti-collision lighting visible from a distance of no less than 3 statute miles. The remote PIC may reduce the intensity of, but may not extinguish, the anti-collision lighting if he or she determines doing so is in the interest of safety.