

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

NOAA National Marine Fisheries Service, Marine Mammal Laboratory (MML)
Responsible Person: Kathryn Sweeney
Waiver Number: 107W-2017-00174A

7600 Sand Point Way NE
Seattle, WA 98115

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 Systems (sUAS) operations with minimum flight visibility less than 3 statute miles; and minimum distance from clouds less than 500 feet below the cloud and less than 2,000 feet horizontally from the cloud. The location of operation is limited to within 12 nautical miles of the shoreline of the Aleutian Islands, Alaska and the Islands of St George and St Paul, Alaska, as described in Special Provision number 17 below.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

14 CFR § 107.51(c) Minimum flight visibility
14 CFR § 107.51(d) Minimum distance from clouds

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 17, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from June 28, 2017 to June 30, 2021 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
NOAA National Marine Fisheries Service Marine Mammal Laboratory (MML)**

General.

This Certificate of Waiver is an amendment which supersedes and replaces Waiver 107W-2017-00174 issued to NOAA National Marine Fisheries Service Marine Mammal Laboratory (MML) for operations under 14 CFR 107. 51(c) and (d), Waiver 107W-2017-00174 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. 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 § 107.51(c), Operating limitations for sUAS, less than 3 statute miles visibility is waived.

14 CFR § 107.51(d), Operating limitations for sUAS, less than 500' below clouds and less than 2,000' horizontally from clouds is waived.

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 Observer (VO) complies 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 are informed on the terms and provisions of this Waiver and the strict observance of the terms and provisions herein;
 - b. Must ensure the remote PIC, manipulators of the controls, and VO are informed and familiar with part 107 regulations not waived; and
 - c. The above 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), 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. Operations under this Waiver are to be conducted in Class G airspace only unless specific airspace authorization or Waiver is received from the FAA in accordance with § 107.41;
5. A copy of this Waiver must be available during sUAS operations that are the subject of this Waiver;
6. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in the Waiver holder'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 small unmanned aircraft (sUA) by registration number(s) used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;
8. All operations under this Waiver must use one or more VO;

Operating Limitations Special Provisions. sUAS operations may be conducted with less than 3 statute mile flight visibility, less than 500' below clouds and less than 2,000' horizontally from clouds.

9. As described in the waiver application, the sUA must not be operated with less than 1 statute miles visibility, as observed from the control station, and the sUA must remain 100 feet below clouds, and within 0.5 nautical miles of the remote PIC
10. As described in the waiver application, upon sighting of any aircraft in the vicinity, the sUA will be lowered to no greater than 50 feet AGL and immediately return home to land;
11. The conspicuity of the sUA must be increased by use of anti-collision lighting visible from 3 statute miles, highly visible exterior features and reflective, brightly colored coatings, as described in the waiver application;
12. As described in the waiver application, all operations conducted under this Waiver are limited to no higher than 200 feet above ground level (AGL), not to exceed 50 nautical miles per hour (57 statute miles per hour);
13. Any operations on airport property require the permission of the airport manager.
14. As described in the waiver application, when operating within 5 statute miles of any

airport, a method of radio or telephone communication with airport management must be established, and the remote PIC or VO must monitor the airport common traffic advisory frequency;

15. As described in the waiver application, operations under this Waiver are limited to no higher than 200 feet above ground level (AGL) when within 3 statute miles of any airport, and no higher than 100 feet AGL when within 2 statute miles of any airport. No operations under this Waiver may be conducted closer than 2 statute miles of any airport when within 30 degrees either side of the extended runway centerline;
16. Not less than 24 hours prior to conducting operations that are the subject of this Waiver, a Notice to Airmen (NOTAM) must be filed. The NOTAM must include location, altitude, and/or operating area, time and nature of the activity, and number of sUA flying in the operating area;
17. Operations under this Waiver are limited to the islands and United States territorial waters extending to 12 nautical miles from the shoreline of the following geographic locations:
 - a. The Aleutian Islands of the State of Alaska from Attu Island (52° 54' N, 172° 55' E) to Unimak Island (54° 48' N, 164° 00' W).
 - b. The islands of St. George and St Paul, Alaska located approximately 230 nautical miles northwest of Unalaska, Alaska.