

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

ISSUED TO

**SC-Recon**  
**Responsible Person: Michelle Carroll**  
**Waiver Number: 107W-2018-14284**

ADDRESS –

**19494 580th Ave #853**  
**Park Rapids, MN 56470**

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 within the operation areas described in provision 17, in accordance with Title 14 CFR Part 107, except:

- sUAS operations in accordance with § 107.51(b) are limited to the altitude listed below:
  - At or below 600 feet above ground level (AGL).

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

**14 CFR § 107.51(b)—Operating limitations for small unmanned aircraft - Altitude**

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

This Certificate of Waiver is effective from September 22, 2018, to September 21, 2020, and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

9/19/2018

**BY DIRECTION OF THE ADMINISTRATOR**

*John H. Page Jr.*

**Manager, Emerging Technologies Team (AJV-115)**

## SPECIAL PROVISIONS ISSUED TO

### SC-Recon

#### General.

This Certificate of Waiver is an amendment which supersedes and replaces Waiver 107W-2018-11999 issued to SC-Recon for operations under 14 CFR 107. Waiver 107W-2018-11999 is no longer valid.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(b)**, Operating limitations, altitude of sUAS higher than 400 feet AGL, not to exceed 600 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.

**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)<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 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 (a and b) must be documented and must be presented for inspection upon request from the Administrator or an authorized representative;

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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.

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 available 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 the Waiver holder's operations. 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 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.

**Operations higher than 400 feet AGL Special Provisions** sUAS operations may be conducted above 400 feet AGL, not to exceed 600 feet AGL, provided:

7. All operations under this Waiver must use one or more VO;
8. 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;
9. Prior to conducting operations under this Waiver, the Responsible Person must ensure that the remote PIC has a means to identify the boundaries of any structure so as to avoid collision with, or damage to property;
10. As described in the waiver application, operations conducted under this Waiver are limited to the following location(s) and sUA as described in your waiver application:
  - a. Location- see special provision # 17
  - b. Sartell, Minnesota
  - c. Clear of all non-participating personnel, property, buildings, roads, and utilities;
  - d. Monitoring must be conducted in a manner to restrict access by nonparticipating persons;
11. The sUAS ground station must be equipped to display sUA altitude, position, attitude, and direction of flight information;

12. The remote PIC must be able to determine the position, attitude, and direction of flight of the sUA relative to any other aircraft, persons, property, and obstructions during waived operations;
13. The Responsible Person listed on this Waiver must ensure the sUA is equipped with high visibility markings and/or strobe lights visible during the daytime from a distance of no less than three statute miles. The remote PIC may reduce the intensity of the anti-collision lighting if he or she determines that, because of operating conditions, it would be in the interest of safety to do so;
14. Prior to conducting operations under this Waiver, the remote PIC must ensure that the geo-fence system, telemetry system, associated flight control systems, and sensors, as described in the Waiver application, operate properly;
15. During sUAS operations for on-site communication/recall, the remote pilot in command shall be continuously available for direct contact at (XXX)XXX-XXXX;
16. sUAS operations may be conducted above 400 feet AGL, not to exceed 600 feet AGL;
17. Operations conducted under this Waiver are limited to the geographical confines of Little Rock Lake north of highway 10 with a center point at the following coordinates: 45°44 09.16' N 94°09 59.57' W and;

These additional two areas bounded by the following North latitude and West longitude points:

48°51.59'N 95°20.70'W and 48°50.52'N 94°43.24'W;

48°09.01'N 95°29.04'W and 48°15.10'N 94°43.79'W;

46°57.98'N 95°28.95'W and 46°56.20'N 94°24.74'W;

46°27.73'N 95°27.76'W and 46°26.80'N 94°42.54'W;

18. Operations conducted under this Waiver are limited to: Becker, Hubbard, Otter Tail, Wadena and portions of Cass and Todd Counties and the area of Little Rock Lake 1,310 acres, Benton County, MN as described in the waiver application.

