

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

Russell Flahive
Argos Unmanned Aerial Solutions, LLC

POC Phone Number

717-283-4487

56 Evergreen Court,
Lititz, PA 17543

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

Unmanned Aircraft Systems operations in accordance with Title 14 CFR Part 107.41, except "Operating limitations for small unmanned aircraft" Part 107.51 b (2) are limited to the altitude depicted in attachment 1.

Class of Airspace: B airspace in the vicinity of Philadelphia Intl Airport
Under the jurisdiction of: Philadelphia Tower (PHL ATCT)
See attachment 1 and 2 for depiction of Operating Area.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

107.41 Operations in certain airspace

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 1 thru 5 inclusive, are set forth on page 2 of this waiver.

This certificate 2016-ATO-P107-00036 is effective from January 1, 2017, to December 31, 2019, inclusive, and is subject to cancellation at any time upon notice by the Administrator or his/her authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

FAA Headquarters, AJV-115
(Region)

M. Randy Willis
Randy Willis
(Signature)

December 19, 2016
(Date)

Manager, Emerging Technologies Team
(Title)

1. CONTACT INFORMATION:

Russell Flahive is the person designated as responsible for the overall safety of UAS operations under this Certificate of Waiver. During UAS operations for on-site communication/recall, the Pilot shall be continuously available for direct contact at 717-283-4487.

2. SCHEDULE OF FLIGHT OPERATIONS:

This Certificate of Waiver and the Special Provisions shall be in effect from January 1, 2017 through December 31, 2019, **between civil sunrise and civil sunset local time.**

3. OPERATIONS:

- a. All UAS operations will be conducted in accordance to altitudes depicted in Attachment 1 and 2
- b. Operations will only be conducted in VFR conditions with greater than 5 miles visibility and 3,000 ft ceiling.
- c. All UAS operations shall avoid all active approach and departure corridors.
- d. Dependent upon proximity to heliports and airports within the Class Bravo, ATC may require the use of a visual observer (VO) to assist the remote pilot (PIC) with observing and avoiding other aircraft. PHL ATCT may require the PIC/VO to have a handheld receiver tuned to a frequency as designated in paragraph 4.,a., below. The PIC/VO will be familiar with ATC communications as per 14 CFR 107.71.
- e. This airspace authorization does not relieve the remote pilots from the responsibility to check the airspace they are operating in and comply with all restrictions that may be present in accordance with 14 CFR 107.45, 14 CFR 107.47 and 107.49 (a)(2), such as restricted and Prohibited Airspace, Temporary Flight Restrictions, etc.

4. COORDINATION:

- a. The PIC must coordinate with PHL ATCT in advance for approval of UAS operations within PHL Class B airspace and provide specifics of the requested operating area and Lost Link landing area:
 - i. Commercial/industrial UAS operations will be scheduled no later than 48 hours prior to actual operations with PHL ATCT at (215) 492-4100 ext. 384.

- ii. Search & Rescue or Law Enforcement operations that are tactical or emergent in nature, contact with PHL ATCT at (215) 492-4123 will be made as soon as possible, prior to launching the UAS aircraft.
 - iii. If PHL ATCT requires the use of a visual observer, the remote pilot will be advised at time of initial coordination, and will be instructed to contact PHL ATC at (215) 492-4123 for a frequency to monitor, 30 minutes prior to launching the aircraft
- b. The PIC shall notify PHL ATCT at (215) 492-4123 immediately following the termination of all UAS operations.

5. EMERGENCY/CONTINGENCY PROCEDURES - Lost Link/Lost Communications Procedures:

- a. If the UAS loses communications or loses its GPS signal, the UA must return to a pre-determined location within the operating area and land.
- b. The PIC must abort the flight in the event of unpredicted obstacles or emergencies.

ATTACHMENT 2

