

# Unmanned Aerial System (UAS) Operations

## 605.1 PURPOSE AND SCOPE

The purpose of this policy is to establish guidelines for the use of an unmanned aerial system (UAS) and for the storage, retrieval, and dissemination of images and data captured by the UAS (Minn. Stat. § 626.19).

### 605.1.1 DEFINITIONS

Definitions related to this policy include:

**CIVIL AIRCRAFT:** All aircraft except a public aircraft.

**Certificate of Waiver or Authorization - COA:** An authorization issued by the Air Traffic Organization Division of the FAA to a public Pilot in Command for a specific UAS activity. After a complete application is submitted, the FAA conducts a comprehensive operational and technical review. If necessary, provisions or limitations may be imposed as part of the approval to ensure the UAS can operate safely with other airspace users. In most cases, FAA will provide a formal response within 60 days from the time a completed application is submitted.

**COVER OFFICER:** A MN POST Licensed Officer that assists the PIC when using the UAS for Criminal Justice drone purposes. Their role is to provide cover for the PIC and Observer during the operational period. The Cover Officer can also serve as a trained Observer for UAS flights.

**LANDING AREA:** A place on land or water, including an airport or intermediate landing field, used, or intended to be used, for the takeoff and landing of aircraft, even when facilities are not provided for sheltering, servicing, or repairing aircraft, or for receiving or discharging passengers or cargo.

**PILOT IN COMMAND - PIC:** The person who has final authority and responsibility for the operation and safety of flight, has been designated as pilot in command before or during the flight, and holds the appropriate category, class, and type rating, if appropriate, for the conduct of the flight. The pilot in command position may rotate duties as necessary with equally qualified pilots. The individual designated as pilot in command may change during flight. All pilots in command will be required to be certified by the Federal Aviation Administration (FAA) under 14 CFR Part 107 and possess a Remote Pilot Airman Certificate.

**PUBLIC AIRCRAFT:** For purposes of this policy, a UAS operated by a public user which is intrinsically governmental in nature (i.e. federal, state, and local agencies). Examples of public entities in Olmsted County are the Olmsted County Sheriff's Department, Facilities and Building Operations, Public Works Department, Soil and Water Conservation District, Rochester Police Department and other local, state, and federal government agencies; and state universities. Refer to 14 CFR 1.1, General Definitions, for a complete definition of a public aircraft.

**TERRORIST ATTACK:** A crime that furthers terrorism as defined in Minnesota Statutes Section 609.714, Subd. 1.

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**UNMANNED AERIAL SYSTEM - UAS:** An unmanned aircraft of any type that is capable of sustaining directed flight, whether preprogrammed or remotely controlled without the possibility of direct human intervention from within or on the aircraft (commonly referred to as an unmanned aerial vehicle (UAV)), and all of the supporting or attached systems designed for gathering information through imaging, recording, or any other means (Minn. Stat. § 626.19).

**VISUAL OBSERVER:** For all flights using the UAS, there must be a visual observer. At no time will the PIC be allowed to operate the UAS without a visual observer. A visual observer is trained to assist the PIC in the duties associated with collision avoidance. This includes, but not limited to avoidance of other traffic, clouds, obstructions and terrain.

**VISUAL LINE-OF-SIGHT:** A method of control and collision avoidance that refers to the pilot in command or visual observer directly viewing the unmanned aircraft with human eyesight. Corrective lenses (spectacles or contact lenses) may be used by the pilot or visual observer.

### **605.2 POLICY**

Unmanned aerial systems may be utilized to enhance the office's mission of protecting lives and property when other means and resources are not available or are less effective. Any use of a UAS will be in strict accordance with constitutional and privacy rights and Federal Aviation Administration (FAA) regulations.

### **605.3 PRIVACY**

The use of the UAS potentially involves privacy considerations. Absent a warrant or exigent circumstances, operators and observers shall adhere to FAA altitude regulations and shall not intentionally record or transmit images of any location where a person would have a reasonable expectation of privacy (e.g., residence, yard, enclosure). Pilots in command and visual observers shall take reasonable precautions to avoid inadvertently recording or transmitting images of areas where there is a reasonable expectation of privacy. Reasonable precautions can include, for example, deactivating or turning imaging devices away from such areas or persons during UAS operations.

### **605.4 PROGRAM COORDINATOR**

The Sheriff will appoint a program coordinator who will be responsible for the management of the UAS program. The program coordinator will ensure that policies and procedures conform to current laws, regulations, and best practices and will have the following additional responsibilities:

- Coordinating the FAA Certificate of Waiver or Authorization (COA) application process and ensuring that the COA is current.
- Ensuring that all authorized operators and required observers have completed all required FAA and office-approved training in the operation, applicable laws, policies, and procedures regarding use of the UAS.
- Developing uniform protocol for submission and evaluation of requests to deploy a UAS, including urgent requests made during ongoing or emerging incidents.

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Deployment of a UAS shall require written authorization of the Sheriff or the authorized designee, depending on the type of mission.

- Developing protocol for conducting criminal investigations involving a UAS, including documentation of time spent monitoring a subject.
- Developing an operational protocol governing the deployment and operation of a UAS, including but not limited to safety oversight, use of visual observers, establishment of lost link procedures, and secure communication with air traffic control facilities.
- Developing a protocol for fully documenting all missions (including loss of signal or crashes).
- Developing a UAS inspection, maintenance, and record-keeping protocol to ensure continuing airworthiness of a UAS, up to and including its overhaul or life limits.
- Developing protocols to ensure that all data intended to be used as evidence are accessed, maintained, stored, and retrieved in a manner that ensures its integrity as evidence, including strict adherence to chain of custody requirements. Electronic trails, including encryption, authenticity certificates, and date and time stamping, shall be used as appropriate to preserve individual rights and to ensure the authenticity and maintenance of a secure evidentiary chain of custody.
- Developing protocols that ensure retention and purge periods are maintained in accordance with established records retention schedules.
- Facilitating law enforcement access to images and data captured by the UAS.
- Recommending program enhancements, particularly regarding safety and information security.
- Ensuring that established protocols are followed by monitoring and providing periodic reports on the program to the Sheriff.
- Developing protocols for reviewing and approving requests for use of the office UAS by government entities (Minn. Stat. § 626.19).
- Preparing and submitting the required annual report to the Commissioner of Public Safety (Minn. Stat. § 626.19).
- Posting the office policies and procedures regarding the use of UAV on the office website, as applicable (Minn. Stat. § 626.19).
- Reviewing the program and UAS use for compliance with Minn. Stat. § 626.19.
- Ensure the procedures and requirements contained within the Olmsted County Drone Usage Manual are followed to the extent possible.

### **605.5 USE OF UAS**

Only authorized operators who have completed the required training shall be permitted to operate the UAS.

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Use of vision enhancement technology (e.g., thermal and other imaging equipment not generally available to the public) is permissible in viewing areas only where there is no protectable privacy interest or when in compliance with a search warrant or court order. In all other instances, legal counsel should be consulted.

UAS operations should only be conducted during daylight hours. A UAS should not be flown over populated areas except for persons directly participating in UAS operations without FAA approval.

Members shall not use a UAS without a search warrant, except (Minn. Stat. § 626.19):

- (a) During or in the aftermath of an emergency situation or disaster that involves the risk of death or bodily harm to a person.
- (b) Over a public event where there is a heightened risk to the safety of participants or bystanders.
- (c) To counter the risk of a terrorist attack by a specific individual or organization if the agency determines that credible intelligence indicates a risk.
- (d) To prevent the loss of life or property in natural or man-made disasters and to facilitate operation planning, rescue, and recovery operations.
- (e) To conduct a threat assessment in anticipation of a specific event.
- (f) To collect information from a public area if there is reasonable suspicion of criminal activity.
- (g) To collect information for crash reconstruction purposes after a serious or deadly collision occurring on a public road.
- (h) Over a public area for deputy training or public relations purposes.
- (i) For purposes unrelated to law enforcement at the request of a government entity, provided the request is in writing and specifies the reason for the request and a proposed period of use.

### **605.5.1 DOCUMENTATION REQUIRED**

Each use of a UAS should be properly documented by providing the following (Minn. Stat. § 626.19):

- (a) A unique case number
- (b) A factual basis for the use of a UAS
- (c) The applicable exception which allows UAS use without a search warrant per Section 605.5 above, unless a warrant was obtained

### **605.6 PROHIBITED USE**

The UAS video surveillance equipment shall not be used:

- To conduct random surveillance activities.
- To target a person based solely on actual or perceived characteristics such as race, ethnicity, national origin, religion, sex, sexual orientation, gender identity or expression, economic status, age, cultural group, or disability.

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- To harass, intimidate, or discriminate against any individual or group.
- To conduct personal business of any type.

The UAS shall not be weaponized (Minn. Stat. § 626.19).

### **605.6.1 ADDITIONAL PROHIBITIONS**

Unless authorized by a warrant, a UAS shall not be deployed with facial recognition or biometric-matching technology (Minn. Stat. § 626.19).

Unless authorized by a warrant or for purposes of a permitted use outlined in Section 605.5 of this policy, a UAS shall not be used to collect data on public protests or demonstrations (Minn. Stat. § 626.19).

### **605.7 RETENTION OF UAS DATA**

The Records Division supervisor shall ensure that data collected by the UAS is disclosed or deleted as required by Minn. Stat. § 626.19, including the deletion of collected data as soon as possible, and in no event later than seven days after collection, unless the data is part of an active criminal investigation (Minn. Stat. § 626.19).