

## Flight Authorization Request to a Controlled Area



### PILOT

**Flight Hours:**

Few actual flight hours; few simulated flight hours.

**Experience with adverse conditions:**

Some experience with windy weather; little experience flying in busy airspace.

**Pilot incident history:**

No reported incidents.



### DRONE

**Drone flight history:**

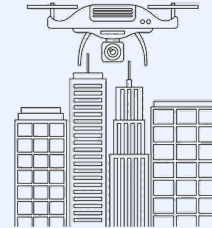
Airframe has moderate flight hours; it has one previous crash with a different pilot caused by faulty compass.

**Maintenance, repairs:**

Airframe repaired after crash, compass replaced; reported regular maintenance.

**Make/Model information:**

Standard type of widely used, moderately cheap, light weight drone; no parachute; has basic Detect and Avoid capability.



### CONDITIONS

**Air traffic:**

Several other drones in the area. Within 1/2 mile of small airport.

**Human traffic:**

Crowds of people at a sporting event; flight will not overfly people.

**Weather conditions:**

High winds forecast, at the edge of drone's allowed operating conditions.

**Physical obstacles:**

Some school buildings and trees in the area.



### MISSION

**Purpose:**

Taking videos of a High School soccer game, near and above a lot of people.

**Mission complexity:**

Maneuvering for optimal shots amidst other drones.

**Mission characteristics:**

Some BVLOS; flying near to but not above people and near buildings.

**Prior simulations of this flight:**

None.

## Flight Authorization Request to a Controlled Area



### PILOT

**Flight hours:**

Very few actual flight hours; moderate number of simulated flight hours.

**Experience with adverse conditions:**

Very little experience with poor weather; no experience flying in busy airspace.

**Pilot incident history:**

No reported incidents.



### DRONE

**Drone flight history:**

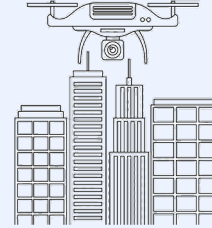
Airframe has a small number of flight hours; it has one reported crash due to a pilot error, and one reported flight above 400 feet AGL without permission. Both incidents with a different pilot.

**Maintenance, repairs:**

Airframe repaired after crashes. Little regular reported maintenance.

**Make/Model information:**

Self-built drone from online instructions. Of medium size, heavy build; no parachute; no Detect and Avoid capability



### CONDITIONS

**Air traffic:**

A few other drones flying somewhat nearby in the park.

**Human traffic:**

Small crowds nearby; flight will try to avoid overflying people.

**Weather conditions:**

Light wind gusts, patchy clouds, within drone's allowed operating conditions.

**Physical area:**

A few trees, not many buildings.



### MISSION

**Purpose:**

Getting videos of a wedding in an urban park

**Complexity level:**

Somewhat simple flight plan; flight will be close to people.

**Mission characteristics:**

Limited flight area and low maximum altitude. Line of sight only.

**Prior simulations of this flight:**

None.

## Flight Authorization Request to a Controlled Area



### PILOT

**Flight hours:**

Few actual flight hours; no simulated flight hours.

**Experience with adverse conditions:**

Very little experience with adverse weather; little experience flying in busy airspace.

**Pilot incident history:**

One reported incident. Pilot lost control and flew into a house, on a different drone.



### DRONE

**Drone flight history:**

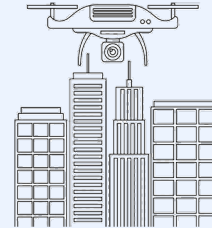
Airframe has a moderate number of flight hours and no previous reported incidents.

**Maintenance, repairs:**

Reported regular maintenance.

**Make/Model information :**

Standard large drone, often used for commercial filming purposes. No parachute. Has active Detect and Avoid capabilities.



### CONDITIONS

**Air traffic:**

A few other drones and other air traffic in local urban area.

**Human traffic:**

Normal traffic for an urban area.

**Weather conditions:** Light wind, no clouds; within drone's allowed operating capabilities.

**Physical area:**

A moderate number of urban buildings.



### MISSION

**Purpose:**

Building inspection in an urban area, flying close to many buildings.

**Complexity level:**

A few waypoints, some air traffic, flying near to people.

**Mission characteristics:**

Wide area, some BVLOS, flying somewhat close to buildings and people.

**Prior simulations of this flight:**

Few.

## Flight Authorization Request to a Controlled Area



### PILOT

**Flight hours:**

Moderate number of actual flight hours; moderate number of simulated flight hours.

**Experience with adverse conditions:**

Moderate experience with windy and other adverse weather; moderate experience flying in busy airspace.

**Pilot incident history:**

Flight in a state park without permission 1 week ago.



### DRONE

**Drone flight history:**

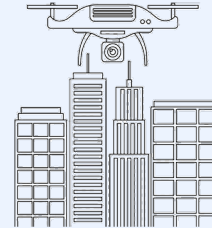
Airframe has many previous short flights and no previous reported incidents.

**Maintenance, repairs:**

Regular reported maintenance.

**Make/Model information :**

Standard, widely used, moderately lightweight drone; no parachute; basic Detect and Avoid capability.



### CONDITIONS

**Air traffic:**

No other air traffic in the area.

**Human traffic:**

A few people in the area.

**Weather conditions:**

High winds, some rain, and low temperatures; on the edge of the drone's allowed operating conditions.

**Physical area:**

Many houses, lots of trees.



### MISSION

**Purpose:**

Taking videos around a house for a realtor's listing, in an urbanized area.

**Complexity level:**

Simple planned flight, few waypoints.

**Mission characteristics:**

Limited area and low maximum height. Line of Sight only.

**Prior simulations of this flight:**

Many.

## Flight Authorization Request to a Controlled Area



### PILOT

**Flight hours:**

Moderate number of actual flight hours; few simulated flight hours.

**Experience with adverse conditions:**

Lots of experience with windy and other adverse weather; little experience flying in busy airspace.

**Pilot incident history:**

Pilot flew in vicinity of airport without permission 2 years ago. No other incidents.



### DRONE

**Drone flight history:**

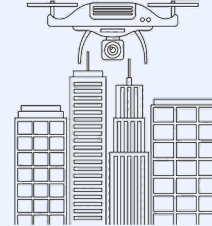
Airframe has small number of flight hours; it has one reported fly-away incident in remote area 18 months ago.

**Maintenance, repairs:**

Airframe repaired after crash; cause of fly-away not determined; regular reported maintenance.

**Make/Model information :**

Standard, widely used, moderately lightweight drone; no parachute; basic Detect and Avoid capability.



### CONDITIONS

**Air traffic:**

Light drone traffic in the area.

**Human traffic:**

Many people in the area. Flights planned to maintain distance from people.

**Weather conditions:**

Low winds, some gusts, moderate low clouds; conditions within the drone's allowed operating capabilities.

**Physical area:**

Urban buildings, flights staying well above building height.



### MISSION

**Purpose:**

News footage of a protest in a city, from a distance.

**Complexity level:**

Distant footage, not many waypoints.

**Mission characteristics:**

Line of sight; staying distant from crowds and buildings.

**Prior simulations of this flight:**

None.

## Flight Authorization Request to a Controlled Area



### PILOT

**Flight hours:**

Moderate number of actual flight hours; many simulated flight hours.

**Experience with adverse conditions:**

Very little experience with adverse weather; moderate experience flying in busy airspace.

**Pilot incident history:**

No reported incidents.



### DRONE

**Drone flight history:**

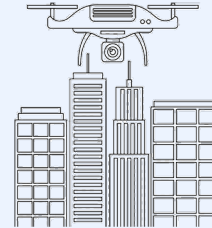
Airframe has long flight history; it has several previously reported crashes with different pilots.

**Maintenance, repairs:**

Airframe reported repaired and recalibrated after crashes; semi-regular reported maintenance.

**Make/Model information :**

Older model of large drone; is known for some flight instability; no parachute; no Detect and Avoid capabilities.



### CONDITIONS

**Air traffic:**

A small number of drones in the area.

**Human traffic:**

Some people and rescue workers in the area; drone will avoid overflying people.

**Weather conditions:**

Low winds, no clouds; Some smoke in the area. Conditions within drone's allowed operating conditions.

**Physical area:**

Suburban environment; Few trees.



### MISSION

**Purpose:**

Capturing footage near a major railroad derailment for a news organization.

**Complexity level:**

Confusing and complex; Getting footage from many angles while avoiding overflying people and smoke.

**Mission characteristics:**

BVLOS; required altitude restrictions; must stay a certain distance from people.

**Prior simulations of this flight:**

None.

## Flight Authorization Request to a Controlled Area



### PILOT

**Flight hours:**

Many actual flight hours;  
many simulated flight hours.

**Experience with adverse conditions:**

Lots of experience with windy and other adverse weather; moderate experience flying in busy airspace.

**Pilot incident history:**

Pilot once caught flying drone without FAA registration.



### DRONE

**Drone flight history:**

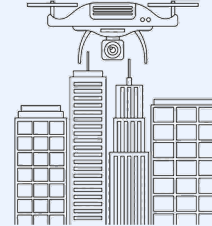
Airframe has moderate number of flight hours and no previously reported incidents.

**Maintenance, repairs:**

Regular reported maintenance.

**Make/Model information :**

Standard large drone, often used for commercial filming purposes; equipped with parachute; has advanced Detect and Avoid capabilities



### CONDITIONS

**Air traffic:**

Heavy drone traffic in a city.

**Human traffic:**

Normal street traffic for an urban area.

**Weather conditions:**

High winds, especially when flying between buildings; very hot weather; winds and temperatures may fall outside of the drone's allowed operating conditions.

**Physical area:**

Many buildings and trees.



### MISSION

**Purpose:**

Film shots (b-roll) of flying down city streets and close to buildings.

**Complexity level:**

A few waypoints and some complex movement.

**Mission characteristics:**

BVLOS, around pre-determined path through a city.

**Prior simulations of this flight:**

Many.



## Flight Authorization Request to a Controlled Area



### PILOT

**Flight hours:**

Many actual flight hours;  
few simulated flight hours.

**Experience with adverse conditions:**

Moderate experience with windy and other adverse weather; lots of experience flying in busy airspace.

**Pilot incident history:**

Pilot has one reported crash when drone flew into a flock of geese.



### DRONE

**Drone flight history:**

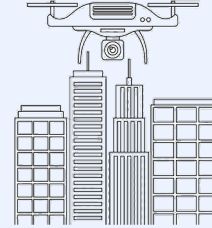
Airframe has only a small number of flights and no reported incidents.

**Maintenance, repairs:**

Semi-regular reported maintenance.

**Make/Model information :**

Large drone used for deliveries; the drone model has a history of crashes; no parachute; basic Detect and Avoid capabilities.



### CONDITIONS

**Air traffic:**

Moderate air traffic in the area.

**Human traffic:**

Rescue workers and people in area. Will need to fly close to people.

**Weather conditions:**

Occasional high wind gusts; weather is near the edge of the drone's allowed operating capabilities.

**Physical area:**

Few buildings and few trees.



### MISSION

**Purpose:**

Delivering emergency supplies to rescue workers in an urban area after a large flood.

**Complexity level:**

Complex and changing environment, lots of people in the area.

**Mission characteristics:**

BVLOS, need to fly close to people.

**Prior simulations of this flight:**

None.



## Flight Authorization Request to a Controlled Area



### PILOT

**Flight hours:**

Many actual flight hours; moderate number of simulated flight hours.

**Experience with adverse conditions:**

Lots of experience with windy and other adverse weather; moderate experience flying in busy airspace.

**Pilot incident history:**

No reported incidents.



### DRONE

**Drone flight history:**

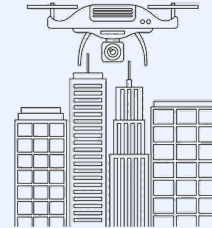
Airframe has a moderate number of flight hours with many successful flights; it has no reported incidents.

**Maintenance, repairs:**

Regular reported maintenance.

**Make/Model information :**

Standard type of widely used, lightweight drone; no parachute; no Detect and Avoid capabilities.



### CONDITIONS

**Air traffic:**

Little traffic under 400 feet. Near to controlled airspace for a large airport.

**Human traffic:**

Few people; some car traffic.

**Weather conditions:**

Low winds; good visibility; well within drone's allowed operating capabilities.

**Physical area:**

Few buildings and few trees.



### MISSION

**Purpose:**

Bridge inspections close to a moderately large airport.

**Complexity level:**

Simple, few waypoints, some car traffic nearby.

**Mission characteristics:**

Limited area and low maximum height; LOS only.

**Prior simulations of this flight:**

Many.