

2024 Planning Enforcement Conference

USING DRONES TO GATHER EVIDENCE



Unmanned Aerial Vehicle (UAV)

INTRODUCTION

- Myles Millward
- Senior Planning Compliance & Enforcement Officer
- Path into Enforcement

TODAYS PURPOSE

- Relevant
- Ease
- Capability

JOURNEY



STEP 1

Purchase

DJI Mini
Pro 3



Unmanned Aerial Vehicles Usage Policy

Last updated: 6 September 2022

Contents

- Purpose
- Scope
- Equality, Human rights and Data
 Protection Analysis
- Conclusion

Purpose

The Planning Compliance and Enforcement Team have the benefit of using a drone (Unmanned Aerial Vehicle- UAV) to help investigate breaches of planning control.

Use of Unmanned Aerial Vehicles (UAVs)

Unmanned Aerial Vehicles (UAVs) have become far more common in recent years and can provide valuable advantages when carrying out Buckinghamshire Council operations.

The purpose of this policy is to ensure that Unmanned Aerial Vehicle operation, associated with Buckinghamshire Council, is carried out safely and in accordance with regulatory requirements.

The Planning Compliance and Enforcement Team would utilise the UAV to document a site at a specific time from the air, to provide a clear record of both the operational development and use of a site. This can be particularly useful when trying to place a specific marker on a site should there be any potential for issues to arise on a site in the future.

For sites where access is restricted. The drones can be safely deployed near the site and can record the activities/operations being undertaken. This will greatly reduce the risk to staff when dealing with confrontational individuals or on inaccessible/remote or large scale sites and will allow Officers to make better informed decisions on how to proceed with their cases. The use of a drone where a potential vexatious complainant is involved could be a very useful asset.

The use of the drone could also help filter complaints and a site inspection could be carried out without the alleged contraveners being aware, thus removing any unnecessary stress caused by multiple enforcement visits.

https://www.buckingha mshire.gov.uk/planningand-buildingcontrol/planningcompliance-andenforcement/use-ofdrones-to-investigateplanningbreaches/unmannedaerial-vehicles-usagepolicy/







Training

https://register-drones.caa.co.uk/individual



Civil Aviation Authority



ation

The Drone and Model Aircraft Code



- For flying drones, model aeroplanes, model gliders, model helicopters, and other unmanned aircraft systems outdoors in the Open A1 and A3 categories.
- Follow this Code to make sure you always fly safely and legally.
- It covers everything you need to know to pass the test to get a flyer ID. This is the starting point for anyone wanting to fly a drone or model aircraft in the UK.
- > Always check online for the latest version.

We would like to hear from you – your <u>feedback</u> will help us to improve the service.

<u>Flying drones and model aircraft</u> > Registering to use a drone or model aircraft

Registering to use a drone or model aircraft

- Overview
- Prepare for the theory test
- Register and take the test to fly
- Children and parent guidance
- Register a child under 13 as a flyer
- Register as an operator
- Register as an organisation

Register and take the test to fly

Use this service to:

- take the theory test to get a flyer ID
- register for an operator ID if you also own or are responsible for a drone or model aircraft

Related content

Registration requirements

The Drone and Model Aircraft Code

Labelling your drone or model aircraft

Renew my registration



Process



Drone Flight Request Form

23 May 2023

This form will be forwarded to management to review the reasons for your drone flight request. If approved, you will be notified of the decision and allocated drone operator. If your request is rejected, you will receive an explanation as to why.

Start now

Drone Flight Request Form Hi, Myles. When you submit this form, the owner will see your name and email address. * Required 1. Full Name * 🔲 Enter your answer 2. Case Reference Number * \(\pi\) Enter your answer 3. What area is the site in? * [] North/Central East/South O West 4. Site Address (or what3words location) * 🛄 Enter your answer 5. Is this request urgent * 🖫 Select your answer 6. Is the flight due to take place on a specific date? * 🔲 Select your answer Send me an email receipt of my responses

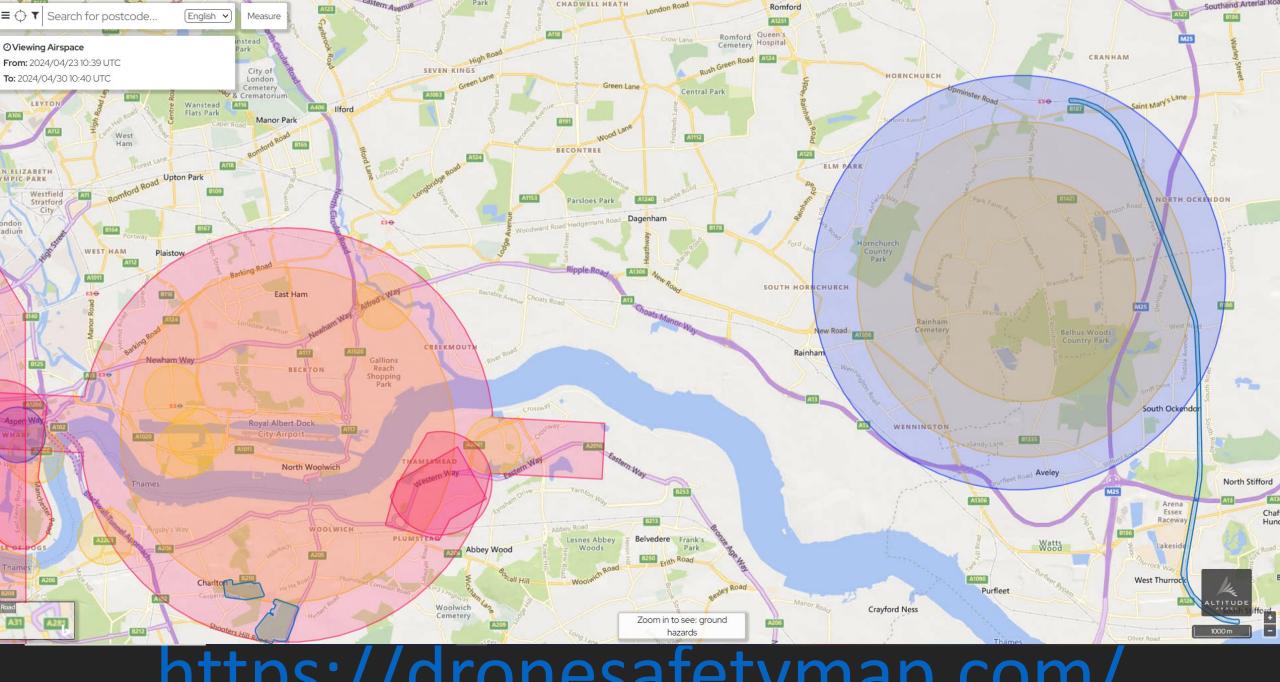
Pilot		Proposed flight			
		date			
Site location and		Expected flight			
case reference		length			
PRE-FLIGHT SITE RES	EARCH				
Constraint	Action to complete	Findings			
Airspace	Airspace Class? (A,C,D,E,F,G) - ATC				
	Permission Required?				
Terrain	What is the Terrain? (Flat, Mountainous,				
	Boggy)				
Proximities	Other Aircraft (Aerodromes, Heli Pads,				
	Model Sites)				
Hazards	Live Firing, High Intensity Radio				
	Transmissions, Gas Venting				
Restrictions	Nuclear Power Stations, Prisons, High				
	Intensity Radio				
Sensitivities	Nature Reserves, Recreational Areas, Bye				
	Laws				
People	Local Habitation (Do we need to Letter				
	Drop?)				
Livestock	Local Farms				
Permission	Local Authority, Land Owner, Military				
	Space permission required for take-				
	off/landing?				
Access	Public Right of Way, Gates & Roads,				
	Public Footpaths, Bridal Paths				
Cordon	Is a Cordon Required? (Do we need extra				
	staff?)				
Ground area	Suitable take-off/landing area, and				
	identifiable alternative Operational Sites				
Risk mitigation	Can the job be done at another time to				
	avoid people, etc				
Weather	24 hour forecast				
PRE FLIGHT NOTIFICA	ATION REQUIRED?				
Local Air Traffic	If Notified, Record Date, Time & Contact				
Control	Name				
Regional Air Traffic	If Notified, Record Date, Time & Contact				
Control	Name				
Military control	If Notified, Record Date, Time & Contact				
	Name				
Local Aero Club	If Notified, Record Date, Time & Contact				
	Name				

Pilot		Flight date								
		Temperature								
Site location and		Wind								
case reference		direction/speed								
ON SITE PRE-FLIGHT CHECKS										
Constraint	Action to complete	Check								
Check for	Masts, Power Lines, Buildings, Train									
obstructions	Tracks, Trees, Water									
Visual limitations	Anything that May Impair Vision? (Up to 5KM)									
Livestock	Any Animals or Wildlife Present Nearby?									
Terrain	Flat Surface, Rough, Sloped, Wet, Trees?									
Public	Public Right of Way, Footpaths, Gates, Public space, Road									
Air traffic	Do We Need & or Have Clearance?									
Land	Do We Have the <u>Land Owners</u> Permission?									
RIPA	Letter posted to site subject to flight?									
Operational Zone	Area for take-off, landing, Are We Far Enough Away from Buildings? And people? Clear line of sight									
NOTES										
None										

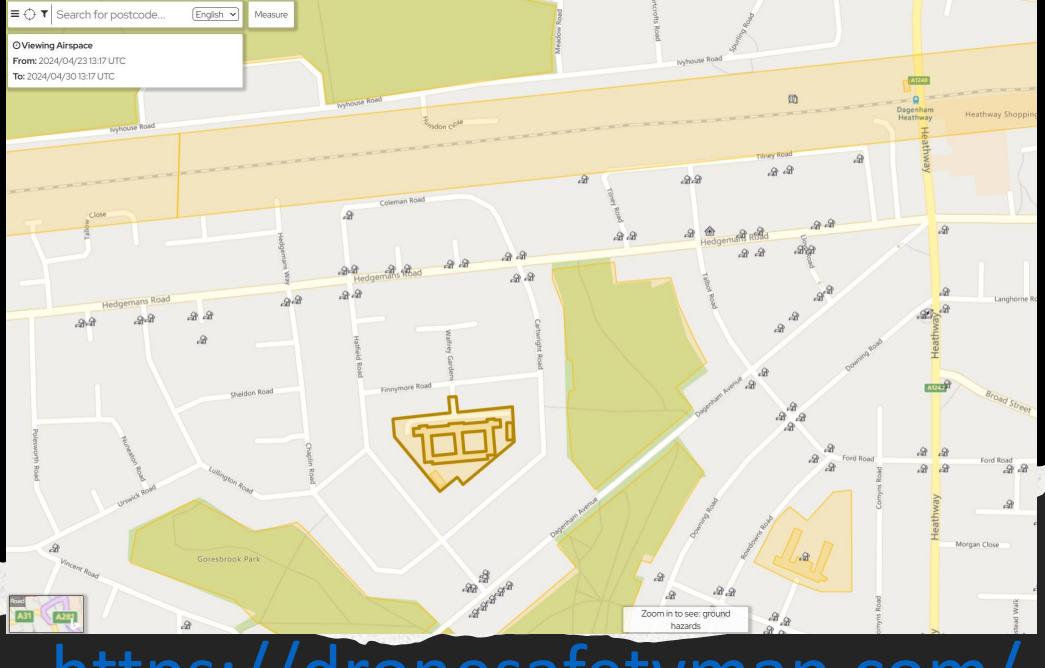
Pilot		Flight date							
		Battery %							
Site location and		Wind							
case reference		direction/speed							
FLIGHT CHECKS									
Item	Action to complete	Check							
Mobile phone	Check reception and <u>battery</u>								
Paperwork	Insurance, BC drone policy, Flight ID								
Officer BC ID badge	Check								
Hard hat/hi-vis	Check (if needed)								
Drone camera	Check. Remove gimbal lock and camera lens cover								
Transmitter	Check. Switch on, check battery power is at least 80%								
Props	Unfold and Check (Splits, chips or cracks - Replace if Required)								
Landing pad	Place landing pad on level surface								
Flight plan / brief	Assess flight plan & carry out site survey, visual check								
Positioning	Calibrate Compass (If <u>Required</u>) Monitor Satellite Capture <u>On</u> Screen Until Satellites Are Captured Fix GPS and home point								
Observers/public	Check everyone at safe <u>distance</u>								
Battery	Final check								
LAND A	ND DISARM MOTORS. SWICH OFF DRONE	AND TRANSMITTER							
Camera	Replace gimble <u>cover</u>								
Props	Check for damage and fold up props. Replace as appropriate								
Safety	Check for damage, wear, tightness of fittings, condition								
Logbook	Complete logbook								
Data	Send data/photos/video to case officer								
Battery	Fully charge all batteries								

Date	Take Off	Landing	Duration	Remote Pilot	Drone	Location

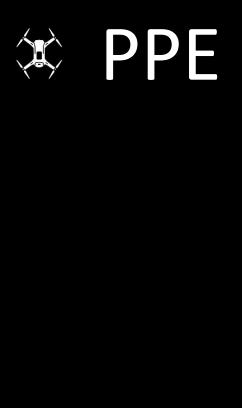




https://dronesafetymap.com/



https://dronesafetymap.com/







PROTECT PLAN METHOD EDUCATE

COVER

BROADCAST

INVEST

DECISION

WHEN TO USE THE DRONE



DEMONSTRATION

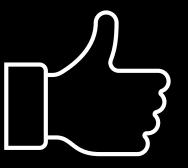


<u>FAQS</u>

- RIPA
- COST
- TRAINING

CONCLUSION

- D irect
- R eactive
- COpen & Omissible
- ☼ N − ow go get one.!
- E fficient



QUESTIONS?

