



CHANGE

1. Category of Airspace Change

Does your proposal concern Changes to Notified Airspace Design or Planned and Permanent Redistribution of Air Traffic? *

- Changes to Notified Airspace Design Planned and Permanent Redistribution of Air Traffic

2. Title of proposal

Please enter a title for this intended change, (max 80 characters): *

Altitude Angel Arrow Drone Zone Supporting The Innovation Sandbox and Future Fli

Have you previously submitted a Statement of Need ?

If known, please provide the ACP/PPR reference number (###-YYYY-NN)

ACP-2021-032

Please provide your rationale for submitting a revised Statement of Need below:- *

Revised post assessment meeting

SPONSOR

3. Change Sponsor Details

Please select the appropriate category and complete. *

- A Company
 An Unincorporated Association or other body
 Individual (including sole traders and partnerships)

3a. A Company

Registered Company name (in full) *

Altitude Angel Ltd

Registered Company Number

09350032

Country of Company Registration

England

Registered Office Address

The Blade, Abbey Square, Reading

Postcode

RG1 3BE

E-mail

[REDACTED]

Trading name (if applicable)

Trading Address (primary site)

Country

United Kingdom

Postcode

[REDACTED]

Website address

altitudeangel.com

Primary Point of Contact Name *

David Walters

Requires Airspace Portal Access ?

Telephone *

[REDACTED]

Mobile Number (for Airspace Portal) *

[REDACTED]

Email *

[REDACTED]

Additional Contacts

You can add up to 4 additional contacts

STATEMENT OF NEED

4. Independent Aviation/Airspace Consultancy

Is an Independent Aviation/Airspace Consultancy involved in this proposal?

5. Statement of Need

Please provide a brief 'Statement of Need' clearly explaining what issue or opportunity this proposal is seeking to address.

Further information can be found in CAP1616 *

The overall objective of Project Arrow® is to enable safe, automated BVLOS flights of multiple unmanned aircraft within the coverage area in Reading in Non-Segregated Airspace.
Recognising that the specific functions that need to be tested, and that within this there are specific detect and avoid' capabilities of the solution, we, therefore, propose the following objectives:

- To verify the efficacy of our chosen surveillance/aircraft detection systems and visual systems to deliver a recognised air picture for the entire area of coverage.
- Proving that the GuardianUTM system has the capability to safely act as an offboard automated deconfliction service using the data available.
- The recognition of the Arrow® Drone Zone and Arrow® Tower concepts as approved for automated BVLOS operations for vehicles that are appropriately connected and comply with our operating specifications and procedures.
- To trial the technology under VLOS, EVLOS, BVLOS Segregated and BVLOS non-segregated Airspace in that order.

Altitude Angel has been working with the Innovation Sandbox for the last 14months, working on the requirements to prove and certify a new type of Detect and Avoid Technology (DAA) that will be used under Future Flight Project Xcelerate
The DAA, once certified, will enable BVLOS Operations in uncontrolled Airspace without the requirement for closed Airspace and support a more integrated approach moving forwards.
For us to prove this technology, we require Airspace that will allow manned and unmanned to be operational while under BVLOS operations and allow the DAA technology to identify and track both types of aircraft.
Operations will be undertaken at 393400ft AGL /553FT AMSL for flights with an emergency buffer up to 45960ft AGL 619ft AMSL.

The time of operations will be daylight hours only. Monday Friday. Period of 90 Active Days

The Airspace allocated by the CAA will be activated 24hrs in advance via NOTAM.
We would prefer to keep the segregation to a minimum and the limits of the corridor routeto the corridor area.
As part of this project, we will also be undertaking public perception engagement, noise impact studies etc.

6. Administrative Changes

Does your proposal represent an administrative change to the Aeronautical Information Publication (Proposed Level 0 change)?

7. Instrument Flight Procedures

Does your proposal have the potential to include a change to and/or new IFPs?

8. Five-Letter Name Codes (5LNC)

Does this request solely concern the reservation of new Five-Letter Name Codes (5LNC) in advance of a future proposal?

9. Additional Information

Please use the box below to add any further information which the CAA should be aware of when considering this submission (for example dependencies on other airspace change proposals and/or funding deadlines):

The airspace change request is supporting the work we carried out from the Innovation Sandbox and UKRI Future Flight. Due to project deadlines and the engagement with the CAA we anticipate this now been September / October time.

SUBMISSION INSTRUCTIONS

Submission

Your form has been successfully submitted. Please keep a copy of this acknowledgement for your records.

Date and Time: 28 Jun 2021 3:45:23 PM

Application Submission Number: DAP1916V2-249

Please note that the Airspace Regulation team will contact you to acknowledge receipt of your Statement of Need and to confirm the unique ACP reference number (ACP-YYYY-NNN) allocated to this submission. Following receipt of your unique ACP reference number, you will be required to create an associated airspace change proposal on the [CAA's Airspace Change Portal](#). Please refer to CAP 1706: CAA Airspace Change Portal Sponsor Training Manual provides for further information/guidance on how to use the Airspace Change Portal.

Once your submission has been assigned, arrangements will be made for you to attend an Assessment Meeting. One of the key outputs from this meeting will be an indicative timeline for the proposed airspace change. To enable the CAA to consider your proposed timescales, you will be expected to present dates for the following milestones at the Assessment Meeting:

- DEFINE Gateway
- DEVELOP & ASSESS Gateway
- CONSULT Gateway
- Formal Airspace Change Proposal Submission
- Target AIRAC

The CAA holds Gateway Assessment Meetings on a monthly basis and the annual schedule is published on the [CAA website](#).

Finally, you should also note that from September 2018 any amendments submitted by a Data Originator or ANSP for onward promulgation in the UK IAIP will be subject to the Aeronautical Data Quality Requirements. See [Commission Regulation \(EU\) No 73/2010](#) (updated by 1029/2014) and [CAP 1054: Aeronautical Information Management](#) guidance material for further information. These requirements will be discussed in greater detail during the course of your initial meeting with the CAA.

When you have completed this form, click this button to submit the form for processing. Do not click this button more than once. You will then be provided with further instructions.