

KEEVIL AIRFIELD AIRSPACE CHANGE PROPOSAL BRIEF



KEEVIL AIRSPACE CHANGE PROPOSAL

SCOPE

01. Capability Overview

02. Why Keevil?

03. Airspace Design Options

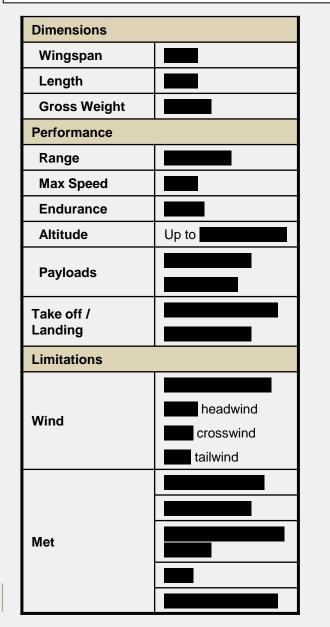
04. FAQs



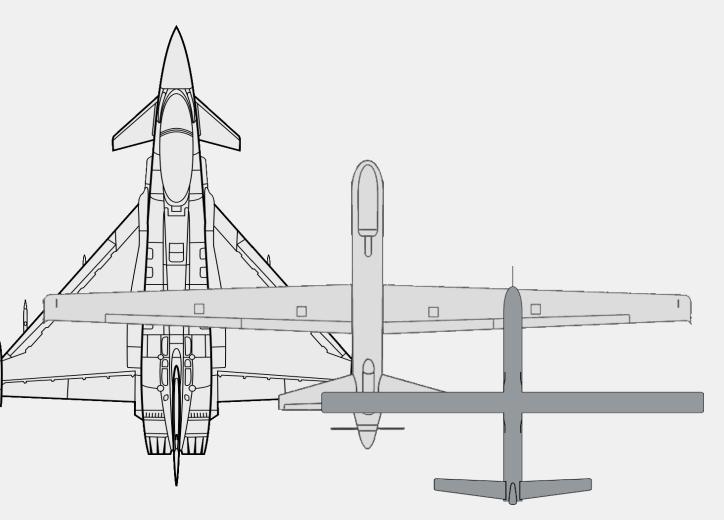


CAPABILITY OVERVIEW

WK SYSTEM COMPOSITION



3



Size Comparison: Typhoon, MQ9 and WK



CAPABILITY OVERVIEW

OFFICIAL

CAPABILITY OVERVIEW

GROUND DATA TERMINAL

CAPABILITY OVERVIEW

ELECTRO-OPTICAL / INFRA-RED SENSOR CAPABILITY

CAPABILITY OVERVIEW

SENSORS OVERVIEW

SAR – AMPLITUDE CHANGE DETECTION

WHY KEEVIL?

TRAINING LOCATIONS

Keevil Airfield (1x sub-unit)

- Live integration (access to SPTA)
- Support to other agencies
- Conversion To Role (CTR)
- Sub-unit deployment
- Maintenance of currency
- Force Optimisation
- Live and virtual experimentation

RAF Akrotiri (1x sub-unit)

More flying activity

more trg throughput

Increase flying rates



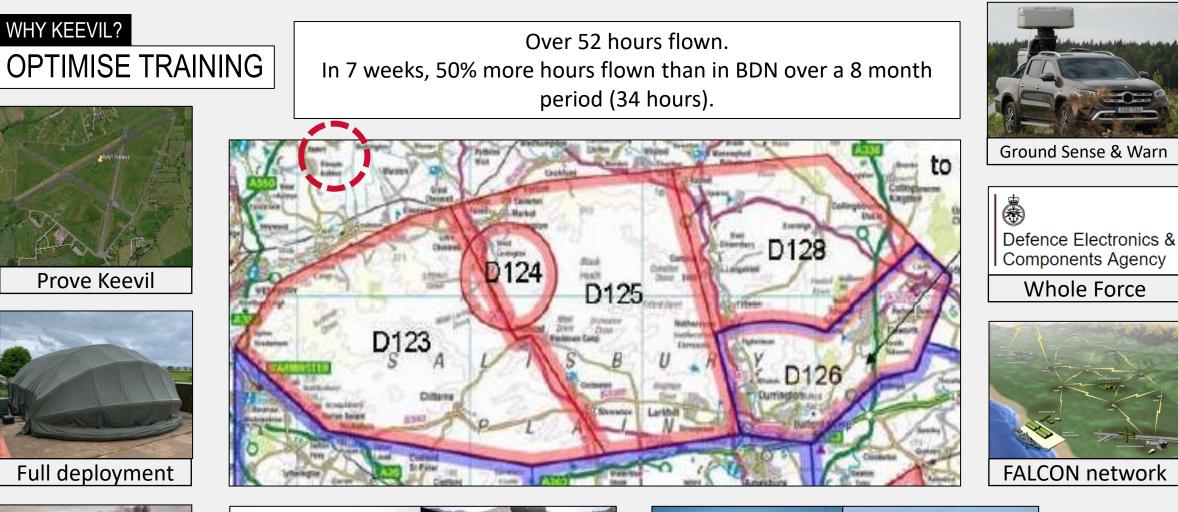
- Airspace availability
- Weather conditions

Ind Trg – FGen of SQEP

- Watchkeeper Pilot Course
- Groundcrew courses
- REME Aviation Technicians
- Support elements (J2/3/4/6)

c. 800 hours flown since Sep 19.

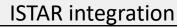








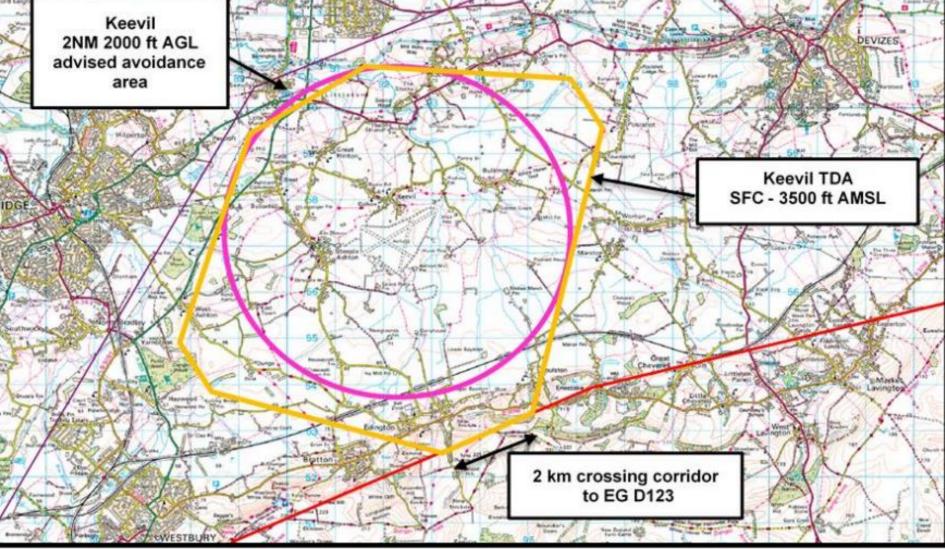






WHY KEEVIL?

TDA Keevil 2NM 2000 ft AGL advised avoidance area



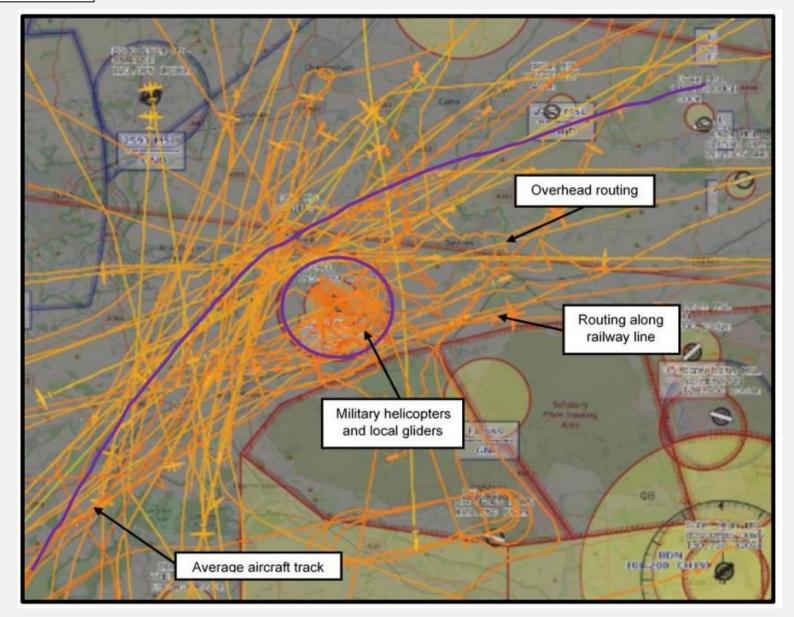


AIRSPACE DESIGN OPTIONS DESIGN PRINCIPLES

DP	Design Principle	Priority
Α	Provide a safe environment for all airspace users	1
В	Provide sufficient airspace to meet all reasonable technical requirements for the Watchkeeper RPAS platform that are required to facilitate safe access to and from SPTA and usage of Keevil Airfield.	2
С	Minimise the impact to other airspace users, both in terms of activation and volume of airspace required.	3
D	Make the airspace as accessible as possible to all types of air user.	4
E	Use standard airspace structure where possible (conformity, simplicity and safety).	5
F	Minimise the impact of operating noise to local residents	6



AIRSPACE DESIGN OPTIONS





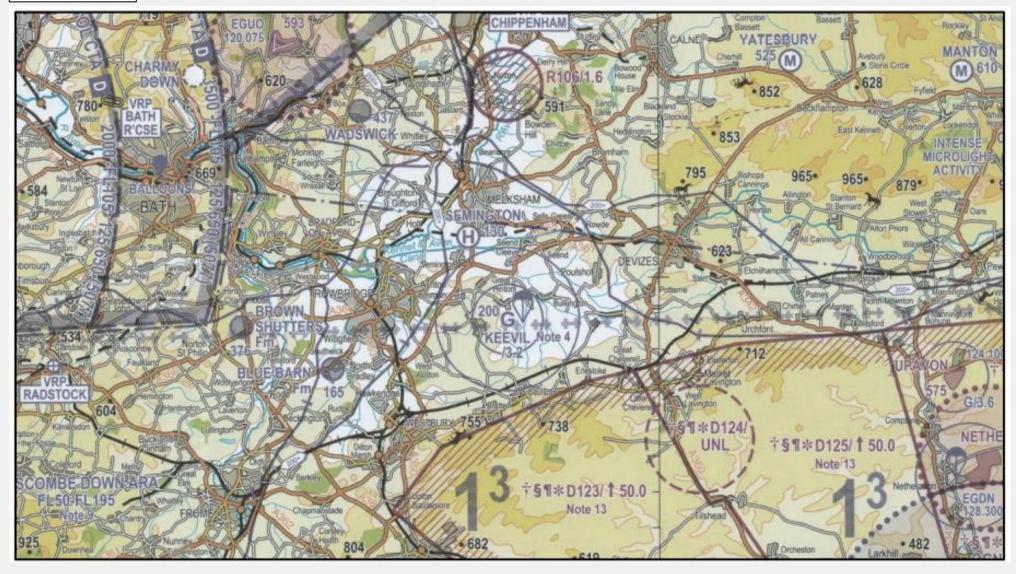
AIRSPACE DESIGN OPTIONS ENVIRONMENTAL ASSESSMENT

- Noise impact
- Fuel burn / CO2 emissions
- Air traffic forecasting
- Biodiversity and tranquillity

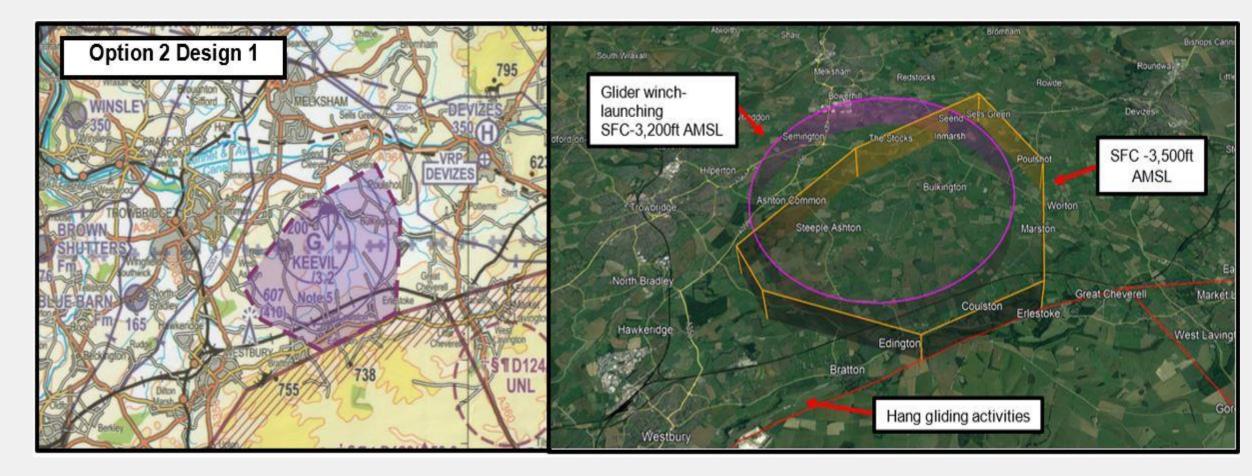


AIRSPACE DESIGN OPTIONS

DESIGN 1



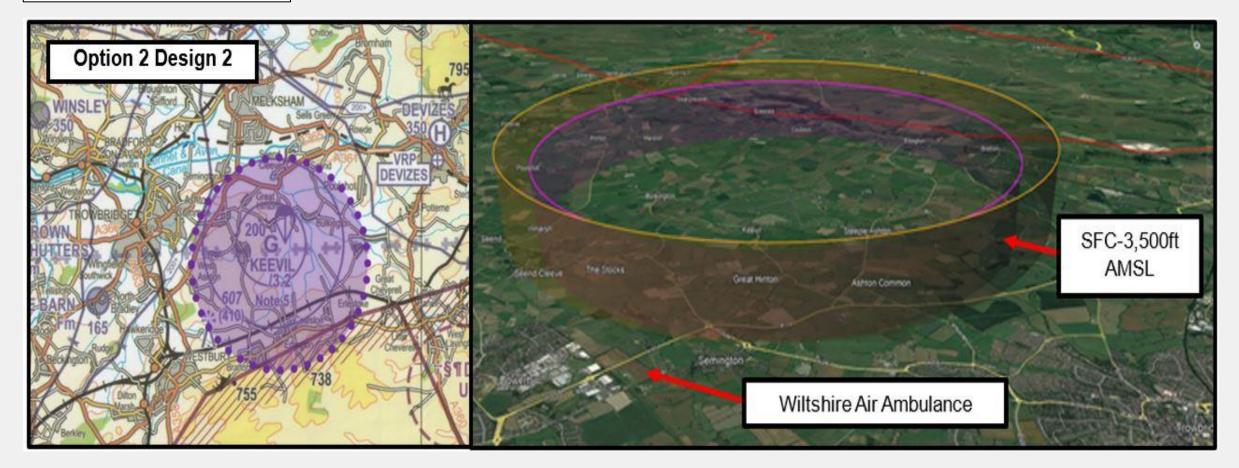




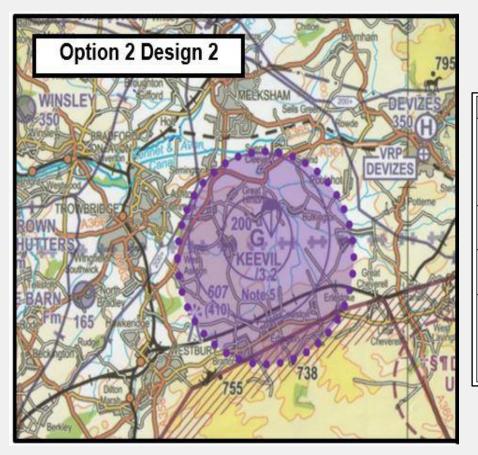


Option 2 Design 1	Pros	Cons
option 2 Design 1	Allows the shape to be as small as	Wider (East-West) than the current DZ,
	possible to the North to mitigate against	(approximately 9 km from the most
WINSLEY Find A MEEKSHAM	funnelling	eastern to the most western edge)
350 Har 9 350 005	Allows aircraft routing around to utilise	Does not facilitate VFR navigation using
Lander VCBANFORD FT	surface navigation features such as	railway line between Keevil and D123 if
Care Care VRP1 62	roads (A350) and towns (Trowbridge	air users are unable to obtain a crossing
Realiston DEVILES PU	and Melksham)	service
TRANSPORT	Reduced impact on hang gliders	
BROWN	operating from Westbury White Horse	
SHUTTERS GOV SCALE GAL HORA	Minimises effect on Wiltshire Air	
FILL	Ambulance operations North, East or	
The second	West	
BLUE-BARN C Bade An Antonio Antoni	Only marginally (300ft) higher than	
and my 165 mender A	current Glider Site winch launch altitude	
Di Rudge Rudge Antonio Chevere Antonio	Wide 'entry point' into SPTA to facilitate	
728 1 STD124	noise abatement procedures for the	
UNL Dates UNL	villages of Coulston, Edington and	
	Erlestoke	
Bester Bester	Allows for RPAS recoveries in all	
State 1 - Land and	operating circumstances	



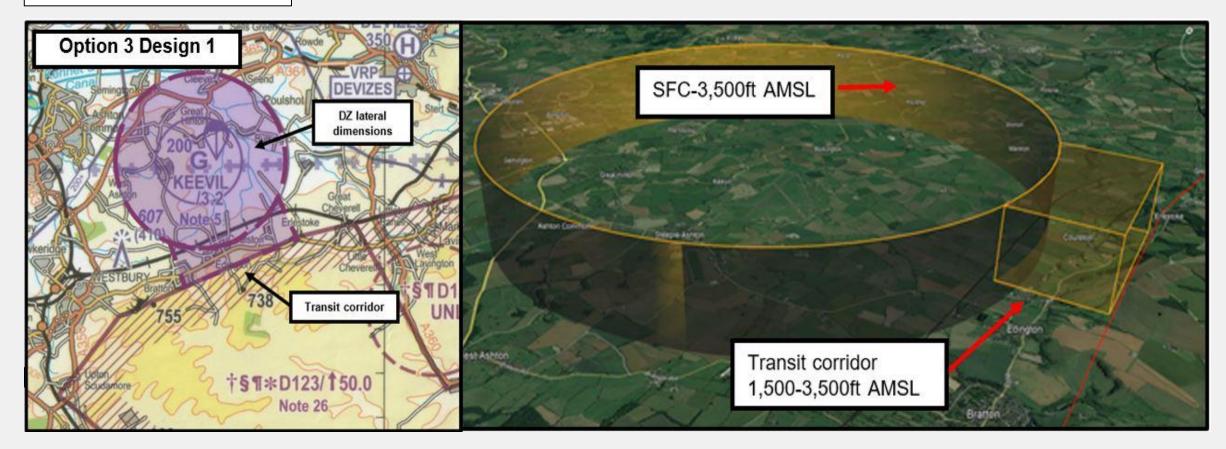






Pros	Cons
Simple design, easy to plot manually if air users do not utilise electronic flight planning software	Does not facilitate VFR navigation using railway line between Keevil and D123 if air users are unable to obtain a crossing service
Only marginally (300ft) higher than current Glider Site winch launch altitude	Greater encroachment on hang glider activities from Westbury White Horse
Airspace to the North is no different to the current DZ.	Does not allow VFR navigation using A350
Wide 'entry point' into SPTA to facilitate noise abatement procedures for the villages of Coulston, Edington and Erlestoke	



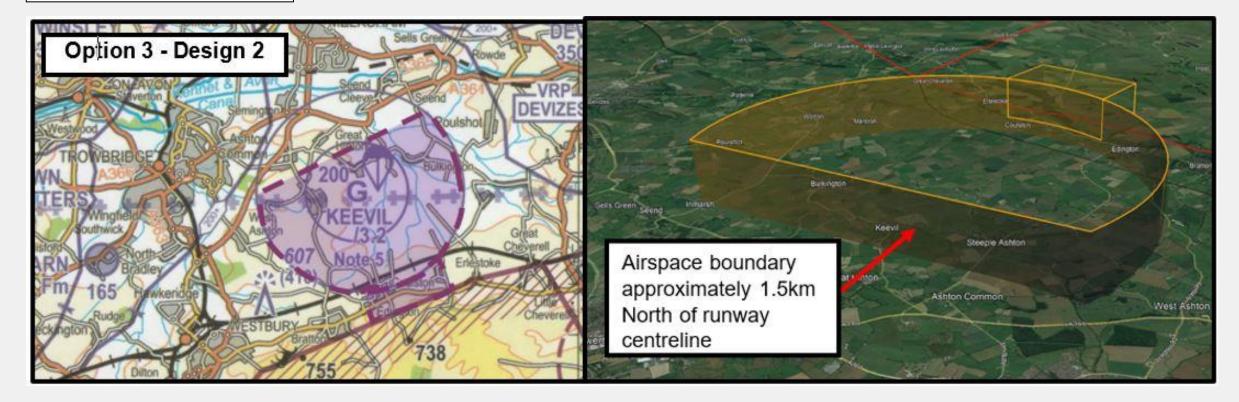




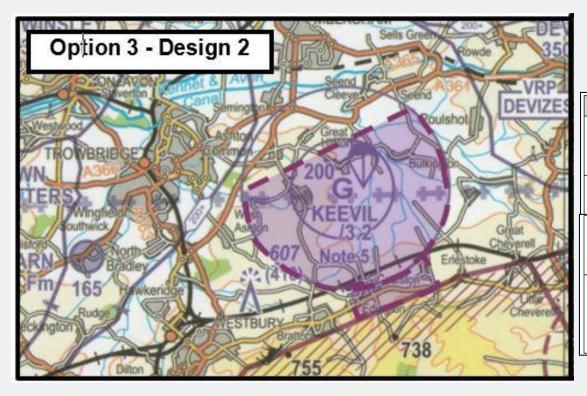
12 10 **Option 3 Design 1** DEVIZES DZ lateral dimensions Transit corridor UN \$\$1*D123/\$50.0 Note 26

Pros	Cons
Facilitates transit between Keevil and	More complex design, requiring two
SPTA for low-flying aircraft using the	separate airspace structures (and two
railway line 1,500-3,500ft AMSL	NOTAMs to activate)
Only marginally (300ft) higher than	Potential to increase risk of airspace
current Glider Site winch launch altitude	infringement
Airspace to the North is no different to the current DZ.	Potential to increase risk of airprox if the majority of aircraft choose to use the gap underneath the DA "STUB"
Wide 'entry point' into SPTA to facilitate noise abatement procedures for the villages of Coulston, Edington and Erlestoke	Does not provide full system capability of RPAS in some emergency scenarios









Pros	Cons
Facilitates transit between Keevil and	More complex design, requiring two
SPTA for low-flying aircraft using the	separate airspace structures (and two
railway line 1,500-3,500ft AMSL	NOTAMs to activate)
Only marginally (300ft) higher than	Potential to increase risk of airspace
current Glider Site winch launch altitude	infringement
Airspace to the North is currently less than the current DZ	Potential to increase risk of airprox if the majority of aircraft choose to use the gap underneath the DA "STUB"
Wide 'entry point' into SPTA to facilitate noise abatement procedures for the villages of Coulston, Edington and Erlestoke	Does not provide full system capability of RPAS in some emergency scenarios



AIRSPACE DESIGN OPTIONS OPERATING PROCEDURES

- Operating hours
- Airspace activation period
- Crossing services
- Use of SAFETYCOM
- HEMS access



- Activation timings
- Primarily using extant airspace for operations
- Crossing services
- Early NOTAM submission to aid flight planning
- Letters of Agreement (WAA, gliding clubs, paragliders, model flying club)



FREQUENTLY ASKED QUESTIONS

- 1. How often will the airfield be used?
- 2. How loud is your aircraft?
- 3. What developments will there be at the airfield?
- 4. Why has Keevil been chosen as the location for operating RPAS?
- 5. How safe are RPAS?
- 6. Will this increase traffic in nearby villages?



QUESTIONS FREQUENTLY ASKED QUESTIONS

- 7. What will your payload/camera be looking at?
- 8. Why can the MOD not operate RPAS from other airfields such as Netheravon, Middle Wallop or Boscombe Down?
- 9. I am concerned that the airspace sought for this activity will deny air users use of valuable Class G airspace.



QUESTIONS CONSULTATION FEEDBACK









