

Hillingdon Council

**Proposed Care Home Development
Cricketfield Road, Uxbridge
UB8 1UW**



Consultant's report

July 2026



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Project No – J156

Proposed Care Home Development, Cricketfield Road, Uxbridge
Aviation Impacts Assessment

Document history

Version	Description	Author	Reviewer	Date
v1	Consultant report	PF	NJ	16/07/26

1. Introduction

1.1 Background to the study

This report has been prepared for the London Borough of Hillingdon in relation to a planning application for a 162-bed specialist care home on the site of the Lobster Pot car park, adjacent to the Hillingdon Civic Centre, UB8 1UW (*Project Ref: Cricketfield Road, Uxbridge: M10960*). The proposal involves the demolition of the car park to facilitate the construction of a 3–5 storey care home, including a basement, with associated parking and landscaping.

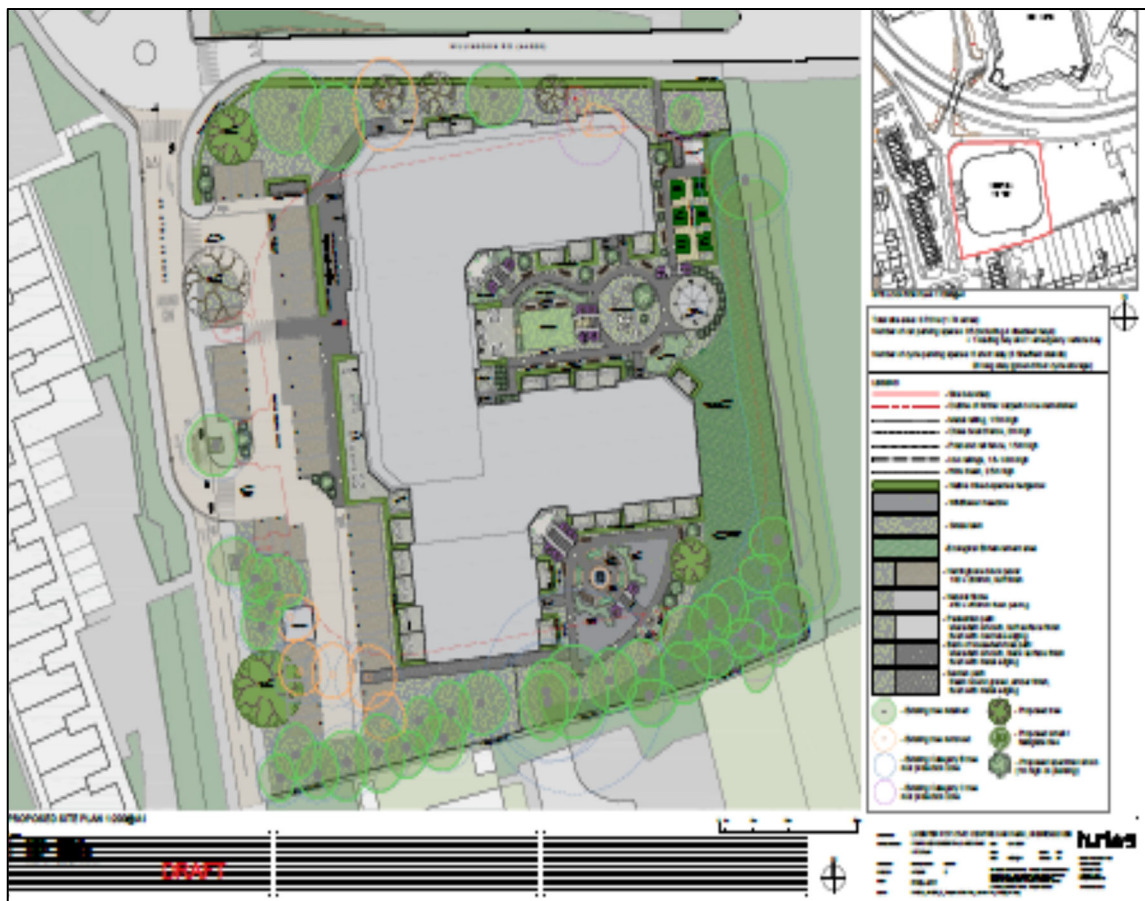
This report provides an Aviation Safeguarding Assessment of the development in accordance with the local planning authority (London Borough of Hillingdon) requirements for all developments exceeding 15m agl. The assessment considers the possible operational risks to aircraft flying in the vicinity, including those using London Heathrow Airport and RAF Northolt. The R27R/09L runway at Heathrow is approximately 7,250m to the south of the development at its closest point, whilst the proposed new R27/09 runway north of the existing two runways is approximately 5,980m to the south of the development at its closest point. The proposed development is also approximately 3,269m to the west south-west of RAF Northolt and is under the approach path on runway R07. The report also considers any possible risks of signal shadowing to radar and other navaid equipment and any potential increase in the risks of bird strikes as a result of the development and the surrounding landscaping. Any safeguarding risks to aircraft using other airports, airfields or heliports or overflying the development are considered to be very low and can be disregarded.

In assessing these impacts, we have had informal pre-application contact with London Heathrow Airport and with NATS who are expected to be statutory consultees to the planning application. We have also contacted the Ministry of Defence (MoD) through the Defence Infrastructure Organisation (DIO), who are responsible for safeguarding of all military airfields and navigation aids. Their responses are shown in Appendices B, C and D.

The proposed development involves the demolition of an existing car park and erection of a five storey care home building. The home will feature secure, landscaped gardens with sensory planting, outdoor seating and an allotment. There will also be a café, hair salon, resident lounges, casual seating, dining rooms and a cinema room for the care home residents.

The site layout is shown in Figure 1.1 below and incorporates a total area of approx 1,375m and a building footprint of approx 825 sq m.

Figure 1.1 – Care home development – Site layout



A diagram of the proposed building elevation is given in Figure 1.2 below.

**Figure 1.2 – Care home development
Building elevation**



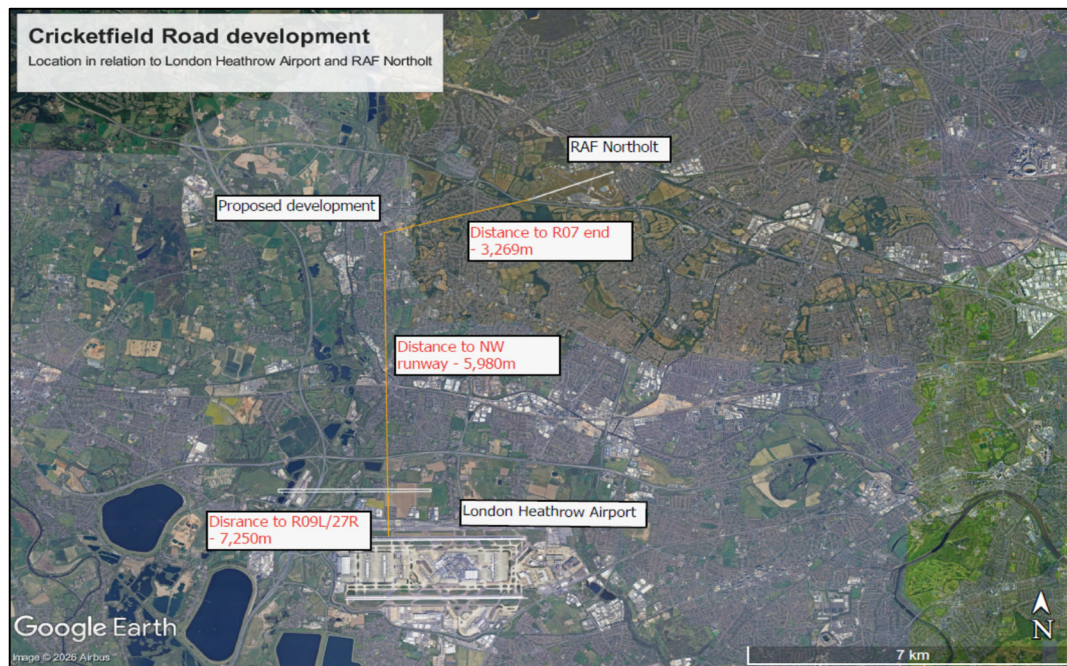
1.3 Location

The site location in relation to London Heathrow Airport and RAF Northolt is shown in Figure 1.3.

The proposed development would be situated to the north of Heathrow's two existing runways and the proposed new northern runway to be built between the 09L/27R runway and the M4 motorway. Whilst the new runway is yet to be formally approved, the implications of the operational safeguarding requirements need to be considered in this assessment.

From an aviation safeguarding standpoint, it is important to note that the care home would be close to several buildings of a similar or greater height, including those at Brunel University to the south and other tall buildings in central Uxbridge to the east. As such, these buildings may block its line of sight from radar or airport navigational aids located at or close to Heathrow and RAF Northolt. As a result, the proposed development is shielded and would not cause any signal distortion to this equipment.

**Figure 1.3 – Care home development
Location in relation to London Heathrow Airport
and RAF Northolt**



Key coordinates

The key coordinates for the proposed development, including the ground height (amsl), the maximum roof height and the expected crane height during construction, together with the coordinates for London Heathrow Airport and RAF Northolt are shown in Table 1.1 below.

Table 1.1 Key coordinates

	Lat / Long	Ground level	Maximum building height	Maximum crane height ¹
Proposed development	512939.71N 0002549.91W	26.1m amsl	26.1m+18.6m =44.7m amsl	261m+18.6m+15m =59.7m amsl
LHR – R27R threshold	512839.63N 0002559.82W	24m amsl	n/a	n/a
LHR – R27 (Northern) threshold	512915.20N 0002742.91W	30m amsl	n/a	n/a
RAF Northolt	515530.82N 0004171.07W	34m amsl	n/a	n/a

1 Assumes vertical height of 15m above roof level

2. Aviation safeguarding policy

2.1 Civil airports and airfields

Formal consideration within the planning process must be given to any detrimental impacts to aviation which might arise as a result of a proposed new development. All major airports in the UK including London Heathrow Airport are officially safeguarded under the *Town and Country Planning (Safeguarded Aerodromes, Technical Sites and Military Explosives Storage Areas) (Scotland) Direction 2003*. This requires these airports to lodge a safeguarding map with local planning authorities and to consult with them in relation to certain possible operational impacts that might arise from tall buildings and other developments within certain distances of the airport. The proposed development would be within the Airport's safeguarding area which can extend to a radius of up to 30 km from the aerodrome reference point¹.

Aerodrome safeguarding covers several aspects. Its purpose is to protect:

- a) the airspace around an aerodrome to ensure no buildings or structures may cause danger to aircraft either in the air or on the ground. This is achieved
- b) through both the 'Obstacle Limitation Surfaces' (OLS) and the 'Instrument Flight Procedures (IFP) Surfaces'. This applies both once the development is completed and during construction (eg using cranes).
- c) the integrity of radar systems and other ground-based navigational aids through the distortion or reflection of the radio signals.
- d) aeronautical lighting, such as approach and runway lighting, by ensuring that they are not obscured by any proposed development and that any proposed lighting, either temporary or permanent, could not be confused for aeronautical ground lighting.
- e) the aerodrome from any increased wildlife strike risk, particularly bird strikes, which pose a serious threat to flight safety.
- f) aerodrome operations from interference by any construction processes through the production of dust/smoke, temporary lighting or construction equipment impacting on radar and other navigational aids.
- g) aircraft from the risk of collision with obstacles through appropriate lighting.

¹ Approximate geometric centre of all runway surfaces

- h) aircraft from the risk of building induced turbulence.
- i) aircraft and ATC tower controllers from the risk from glint and glare, e.g. solar panels or glazing.

The protection of the Obstacle Limitation Surfaces (OLS) is a specific requirement of all CAA certified and other licensed aerodromes¹. The dimensions of the OLS for UK certified aerodromes are set out in UK Reg (UK) No 139/2014 (the UK Aerodromes Regulation) and those for other licensed aerodromes in CAP 168 Licensing of Aerodromes. These regulations are established in accordance with ICAO Annex 14 (Aerodromes) to the Convention on International Civil Aviation.

The protection of the Obstacle Limitation and Instrument Flight Procedures Surfaces also applies in relation to any cranes used on a temporary basis during construction of a development. In certain cases, a dispensation for a minor or temporary breach of the OLS or IFP may be acceptable to the airport operator, provided this is approved by the Civil Aviation Authority and published, if required eg in the AIP (Aeronautical Information Publication) produced by NATS or other suitable publications (eg Pooley's Flight Guide). In addition, prior notification must be given to the CAA for the use of all cranes over 10m agl during the construction phase.

2.2 Military aerodromes

Military aerodromes in the UK are also safeguarded under the *Town and Country Planning (Safeguarded Aerodromes, Technical Sites and Military Explosives Storage Areas) (Scotland) Direction 2003*, with safeguarding maps lodged with the relevant local planning authorities. The specific safeguarding requirements are defined in Regulatory Article (RA) 1026 and, in some cases such as RAF Northolt where civil flights are also operated, also conform to CAA CAP 168 Licensing of Aerodrome regulations, although they are not certified by the CAA.

The safeguarding criteria at military aerodromes are generally similar to those at civil airports as listed in Section 2.1 above although some navigational aids and their signal protection requirements may differ. Some aerodromes use military-specific navigational aids and systems such as TACAN and PAR (Precision Approach Radar) although others, including RAF Northolt may also have civilian aids such as ILS/DME.

¹ Military airfields are not certified by the CAA and other safeguarding regulations apply.

3. Key operational considerations

3.1 London Heathrow airport

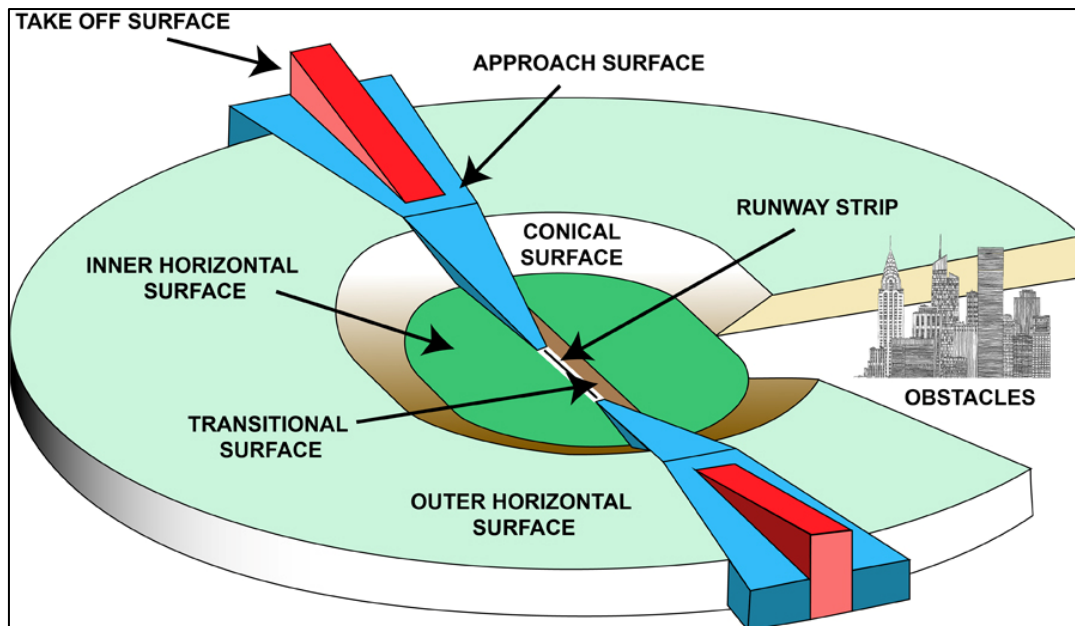
3.1.1 Obstacle Limitation Surfaces (OLS)

At all CAA certified and licensed aerodromes, including London Heathrow Airport, the Obstacle Limitation Surfaces to be assessed (ie whether these would be penetrated by the proposed development) are:

- Take-Off and Climb Surface
- Approach Surface
- Transitional Surface
- Inner Horizontal Surface
- Conical Surface
- Outer Horizontal Surface

These surfaces are shown diagrammatically in Figure 3.1.

Figure 3.1 Airport Obstacle Limitation Surfaces



The development would lie underneath the Outer Horizontal Surface (OHS) at London Heathrow Airport. The OHS is contained in a horizontal plane (at 174m agl) extending from the periphery of the conical surface to a radius of 15,000m from the

Aerodrome Reference Point (the mid-point of R09L/27R). On this basis, the development would be underneath the OHS by some 129.3m and, assuming the use of a crane with a vertical height of 15m above roof level, by some 114.3m during construction. HAL has confirmed that the development would not breach any of the Airport's Obstacle Clearance Surfaces (see Appendix B).

3.1.2 Instrument Flight Procedures (IFP) constraints

Buildings near civil airports should not infringe the safeguarded airspace surrounding an airport's Instrument Flight (PANS-OPS) Procedures as shown in the UK AIP (Aeronautical Information Publication). Aircraft will be at the closest point to the proposed development either at or shortly after take-off and as such that the proposed development and any associated crane used during construction would not penetrate the vertical airspace buffer requirements for any of the IFPs at London Heathrow Airport or those at any other nearby airport. This has been confirmed by HAL (see Appendix B).

3.1.3 Protection of ILS signal

There is sufficient lateral and vertical distance between the ILS glide slope on the approaches on R27R and the proposed new northern R27 at London Heathrow and the proposed development to prevent any signal distortion to aircraft. This has also been confirmed by HAL.

3.1.4 Protection of radar and other navigational aids

Heathrow has its own secondary surveillance radar (SSR) and primary surveillance radar (PSR) at the Airport and various round-based navigational aids (navaids). Buildings can distort radar and navaid signals although normally software modifications are possible to prevent this. In this instance, there are some surrounding buildings which may shield the line of sight to the proposed development. We have contacted NATS who have confirmed that the development would have no signal distortion impacts.

Other PSRs are based at Bovingdon (21 km from the development), Farnborough Airport (36 km) and at Gatwick Airport (48 m). There is also a metrological (MET) radar at Chenies (15 km). In view of these distances, any risk of signal distortion would be very low and can be disregarded.

3.1.5 Bird strike risk

Planning consent for all developments needs to consider whether the development or the surrounding landscaping might attract birds and thereby increase the risk of an aircraft bird strike. These risks and their appropriate mitigation measures are set out in the regulatory requirements for certificated and other licensed CAA *Aerodromes* and in guidance by the CAA in CAP 772 *'Aerodrome wildlife hazard management and reduction'*. Further safeguarding advice in relation to the risks to aviation from wildlife is set out in the CAA CAST (Combined Aerodrome Safeguarding Team) Advice Note shown in Appendix A to this report.

The development will require the removal of some existing trees at the site and the planting of some replacement trees and shrubs for landscaping. Whilst trees can attract birds, the scale of this landscaping together with the distance of the development from the flight paths is such that this would not present a significant additional risk of an aircraft bird strike. This is confirmed by HAL (see Appendix B). However, as the building would have a flat roof in excess of 500 sq m, HAL has stipulated that this should be monitored through the lifespan of the building to remove any bird nests and, if required, suitable mitigation measures should be introduced.

3.1.6 Other possible safeguarding impacts

There are two further possible aviation-related impacts that might arise from the proposed building. In certain instances, solar panels can cause glint and/or glare to controllers in airport ATC towers or to pilots, although is now relatively commonplace around airports and in most circumstances can be mitigated either by the use of non-reflective coatings or by special orientation. We have not been advised as to whether solar panels would be installed at the development, but in any event the distances from the ATC control towers at London Heathrow and RAF Northolt airports are sufficient for any glint and glare to controllers to be minimal. Furthermore, the scale of any solar panels, if installed, would not produce any significant level of glint and glare to pilots of aircraft using either Heathrow or RAF Northolt airports.

External lighting at developments close to flight paths can also in certain circumstances be a hazard to aircraft, particularly if this might be confused with runway lighting (eg if it is in a straight line pattern). In practice, the level of lighting for a development of this nature, together with the distance from the airport is such that it would not present a significant safety risk and neither HAL or the MoD DIO have raised any objections on these grounds.

3.1.7 Crane usage during construction

Although any crane used would be below the obstacle clearance surfaces for London Heathrow Airport, RAF Northolt or any other nearby airports or airfields, the Civil Aviation Authority (CAA) requires crane operators to notify them of cranes that are 100m or higher above ground level (agl), or that are 10m or higher agl and are within 6km of an aerodrome.

The relevant guidance and procedures for this are set out in Civil Aviation Paper (CAP) 1096 -'*Guidance to crane users on the crane notification process and obstacle lighting and marking*'. Under this guidance, the CAA has to be notified of the use of all cranes above a height of 10m agl at least eight weeks (40 working days) in advance, using the online ACOMS portal¹. The CAA will in turn process and share these notifications with relevant parties (eg nearby airports) which require this information.

3.2 RAF Northolt

As indicated in Section 2.2, the safeguarding criteria for developments near military airfields are generally similar to those required for civil airports, with certain differences eg for different types of navigational aids etc. The technical details of these requirements are not publicly available. The MoD DIO will be a statutory consultee for full planning consent in relation to possible impacts at RAF Northolt. Their provisional response (see Appendix C) indicates that it is highly unlikely that there would be any operational impacts as a result of the care home development. The MoD DIO should however be notified of any crane usage during construction in line with that given to the CAA.

4. Conclusions

Our key conclusions from this assessment can be summarized as follows:

- The proposed development is situated approximately 7,250m to the north of the existing R27R/07L runway at London Heathrow Airport at its closest point and 5,980m to the north of the proposed new northern runway to be built between the existing 09L/27R runway and the M4 motorway. As such, the development is within the airport's defined safeguarding area. It is also within

¹ <https://portal.caa.co.uk/>

the safeguarding area for Northolt Airport, some 3,269m west north-west of the development.

- We would expect Heathrow Airport Ltd (HAL), the Ministry of Defence, Defence Infrastructure Organisation (on behalf of Northolt Airport) and National Air Traffic Services to be statutory consultees for the planning application. We have contacted each of these for a preliminary assessment and they have all indicated that they do not envisage that the development would have any operational impacts.
- The development would not breach the London Heathrow Airports obstacle clearance surfaces and as underneath the airport's protected Outer Horizontal Surface by some 129.3m. A typical crane used during construction, with a 15m clearance over the roof height, would be underneath the Outer Horizontal Surface by 114.3m.
- The development (and any associated cranes) would also not breach the protected obstacle limitation surfaces for the RNAV (PAN-OPS) Instrument Flight Procedures as set out in the Airports AIP (Aeronautical Information Publication) as indicated by National Air Traffic Services (NATS). There would also be no impact on Heathrow's ILS (Instrument Landing System) or rada equipment.
- There is sufficient lateral and vertical distance between the development and the take-off and approach paths at the Airport to avoid other impacts to aircraft and to ATC controllers eg glint and glare from solar panels, development lighting etc.
- In terms of any possible aviation impacts from wildlife, we note that a number of trees and shrubs would be planted as landscaping for the development. Whilst these might theoretically increase the risk of an aircraft bird strike, the scale of the landscaping and the distance from the flight paths is such that any incremental increase in this risk would be negligible. The care home building would have a flat roof. Given that these can attract birds, the roof should be regularly monitored throughout its lifetime to ensure that suitable mitigation measures to reduce bird nesting and roosting are employed, if required.
- Similar safeguarding considerations apply to RAF Northolt. The MoD DIO has indicated that there would be no breach of the airport's obstacle clearance limits nor any signal impacts for the airports radar and other navigational aids. They also do not envisage any increased risks to aircraft due to bird strikes.

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- During construction, the CAA and the MoD DIO should be provided with a crane plan at least eight weeks before their use. In the case of the CAA, this should be notified through their online portal, ACOMS.

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Appendix A

CAA CAST (Combined Aerodrome Safeguarding Team)
Advice Note

AERODROME SAFEGUARDING ADVICE NOTE

Date:	April 2024
Ref.:	Advice Note 3
Subject:	Wildlife Hazards Around Aerodromes
Action required:	For Information

1. Introduction

Aerodrome safeguarding ensures the safety of aircraft and their occupants when in the vicinity of an aerodrome by controlling potentially hazardous development and activity around it. For an overview of the safeguarding process see Advice Note 1 'Aerodrome Safeguarding – An Overview', available at [CAST publications | Civil Aviation Authority \(caa.co.uk\)](https://www.caa.co.uk/publications/cast-publications).

This advice note provides an understanding of how wildlife hazards can have serious impacts on flight safety and what sorts of developments influence these hazards. Wildlife includes birds and animals; however, most wildlife strikes and wildlife strike safeguarding issues in the UK involve and relate to birds. Therefore, 'wildlife' strikes will be referred to birdstrikes in this guidance, to be more representative of the issues discussed.

2. Background

Aircraft are vulnerable to wildlife strike risk. Species such as deer, badgers and foxes can cause issues, however birds are the most problematic in the UK. Therefore, this advice note concentrates on birdstrike risk as it has resulted in aircraft losses and fatalities. Also, it is estimated that damage to aircraft and flight delays resulting from wildlife strikes around the world cost more than one billion Euros a year. The vast majority of birdstrikes occur on or close to aerodromes. Aerodrome operators are therefore required to take necessary steps to ensure that the hazard is assessed, and the risk is reduced to the lowest practicable level.

The International Civil Aviation Organisation (ICAO), (Annex 14 to the Convention of International Civil Aviation) states:

'The wildlife strike hazard on, or in the vicinity of an aerodrome shall be assessed through:

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- a) *The establishment of a national procedure for recording and reporting wildlife strikes to aircraft*
- b) *The collection of information from aircraft operators, aerodrome personal and other sources on the presence of wildlife on or around the aerodrome constituting a potential hazard to aircraft operations; and*
- c) *an ongoing evaluation of the wildlife hazard by competent personnel*

Aerodromes work hard to apply control and manage the risks posed by birds on the airfield through the implementation of effective habitat management and active deterrence measures. Birds moving between sites located off the aerodrome can increase the birdstrike risk, however the proactive prevention can often enable effective biodiversity and planning challenges to be met without compromising the very real risk to aircraft and flight safety.



The result of a bird strike - US Airways Flight in 2009. European Space Agency Image ©

Birds moving between sites located off the aerodrome can increase the birdstrike risk, however, proactive prevention can often enable effective biodiversity and planning challenges to be met without compromising the very real risk to aircraft and flight safety. Birdstrikes have the potential to result in damage or delays to aircraft operations. Different species of birds can reside within habitats around aerodromes at different times of year. Their presence has the potential for uncontrolled risk to arise should these birds move through the aircraft flight approach paths to an aerodrome or across the aerodrome itself.

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The precise mix of habitats and attractants around each individual aerodrome will affect safety considerations.

3. Safeguarding Strategies

As a general approach, any developments that have the potential to attract flocks of birds or large birds to the vicinity of an aerodrome should be assessed for their potential risk. The internationally accepted safeguarding area with reference to bird hazards is defined by ICAO as a 13km radius around the aerodrome reference point (ARP). Most birds utilise the airspace close to the ground with the majority of birdstrikes recorded below an altitude of 2000 feet. An aircraft on a standard approach to an airport enters this zone at a distance approximately 13km from a runway. Within this zone, aerodrome operators should conduct an inventory of sites that attract wildlife within a defined radius around the aerodrome, paying particular attention to sites close to the airside and the approach and departure corridors. However, the radius may be extended or reduced, based on a wildlife evaluation of the aerodrome vicinity.

The 13km zone should be seen as a planning guide and should a planning application that is likely to attract large numbers of hazardous (flocking or large) birds be presented outside this vicinity *it is possible* that the movements of birds could impact significantly on flight safety. Scavenging gulls, for example, are known to fly over 45 kilometres each way to exploit food waste and could generate flight lines *within the zone* that may increase the birdstrike risk at an aerodrome. Where doubt arises, planning applications outside the 13km radius should always be forwarded to the aerodrome for comment.

It is not possible to state whether the location of a planning application within (or close to the 13km zone) is an indicator of the level of risk it may provide. Applications would need to either increase the population of hazardous birds¹ within the vicinity of the aerodrome or generate flight lines that enter critical airspace. Local conditions and existing attractants and bird populations will always influence the risk posed by a new application. In order to understand the local conditions and their effect on the aerodrome, operators may determine to monitor off-aerodrome bird or wildlife activities in different ways to achieve the desired objectives and benefits. Off-aerodrome monitoring practices may be dependent and determined by the size and complexity of the aerodrome itself, the type of operating aircraft, the human resource available, the bird/wildlife hazard presented in the vicinity and results of any risk assessment (as noted in the aerodrome's wildlife hazard management plan).

In order to identify whether an application has the potential to increase the birdstrike risk at an aerodrome, features of the site that could attract hazardous birds should be assessed alongside the geographic location of the application in relation to other key attractants in

¹ Large and / or flocking species capable of causing damage of aircraft

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the vicinity of the aerodrome. This process often requires specialist aviation knowledge and competence in the subject matter, an understanding of the risks posed by different species, the likely movement factors and any seasonal issues along with construction, development and final plan considerations. If an LPA has any doubt regarding the potential for wildlife issues, they should consult the aerodrome. Both manmade and natural landscaping features off-aerodrome can attract wildlife onto and aerodrome. These can include:

- Landfill sites
- Sewage works
- Building developments
- Drainage schemes
- Reservoirs
- Gravel pits
- Coastal areas
- Rivers and estuaries
- Woodland and agricultural land

The above points provide examples of the attractants that can be created as a result of developments that have the potential to increase the birdstrike risk.

4. Species Risks and Proximity

Flocking or large birds present the highest likelihood of resulting in flight safety concerns. Developments that attract waterfowl or gulls, for example, must be referred to the aerodrome operator. Dependant on proximity or location in relation to other sites, the development may still be permissible or may require an appropriate mitigation in the form of a 'Hazard Management Plan' to enable the development to gain planning permission.

Where a proposed development has the potential to attract birds, the developer will be expected to have undertaken a comprehensive bird hazard assessment, carried out by experts in the subject matter, to identify the risk(s) of species being attracted.

It is important to understand what constitutes a birdstrike risk and what constitutes a birdstrike hazard. The birdstrike hazard relates to the background population² of hazardous birds and their ability to have a negative impact on air safety. The risk is the likelihood of hazardous birds resulting in such impacts. This can be assessed by identifying the ability of

² The level and type of bird activity that would occur in the absence of any bird control measures.

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the application to increase the carrying capacity³ of hazardous birds in the aerodrome vicinity or to result in flight lines between attractants such as breeding, feeding and roosting sites that could impact aircraft movements.

Listed below are common hazardous birds found in the UK. This list is not exhaustive but provides an indication of the kinds of birds that require consideration when assessing planning applications, noting that other species may also have the potential to increase the hazard. In general, large birds (waterfowl, large birds of prey etc.) and flocking species (Starlings, Lapwings, Pigeons, Gulls etc.) present the greatest hazard.

- All wildfowl (Ducks, Geese and Swans)
- All large waterfowl
- Herons
- Egrets
- Cormorants
- Gamebirds (Pheasants & Partridges)
- Birds of prey
- Large waders (Lapwing, Curlew and Golden Plover)
- All gull species
- All Pigeon species
- All Corvid species (crow family)
- Starlings

Safeguarding should take a proactive, precautionary approach and as such, the potential attraction of a site to hazardous birds should be used to inform safeguarding decisions. The potential for a birdstrike risk to then develop depends on several factors, for example the species of birds present, the types of aircraft operating, the presence of other habitats in and around the vicinity of the aerodrome and the frequency of aircraft movements. The time of year will also need to be taken into consideration in respect to which species will be more prevalent across certain sites.

Where a significant hazard is identified, the developer will be expected to modify their proposals to mitigate the risk or, should the increase remain unacceptable, may find their application remains subject to a sustained objection from the aerodrome operator. To lift any objections, it is possible that further to habitat modifications, a results-based Wildlife

³ The maximum population size of the species that the environment can sustain indefinitely, given the food, habitat, water, and other necessities available in the environment.

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Hazard Management Plan (WHMP) could be agreed with the aerodrome operator. The long-term efficacy of all mitigations proposed would need to be fully auditable by the aerodrome or their nominated representatives.

To avoid delays in the planning process it is suggested that developers consult with relevant aerodromes at a preliminary stage and follow the design advice provided in aviation flight safety guidance material. Further information is available in CAA Publication 'CAP 772: Wildlife Hazard Management at Aerodromes' available at www.caa.co.uk.

5. Development Types

As there are many types of development, the following examples are given to help identify the potential to attract hazardous species. The final decision on whether a site may or may not result in a risk to flight safety will be dependent on location, proximity and relation to other existing wildlife sites and corridors at each individual aerodrome.

Development Type	Specific	Species concerns
Waste Management	Landfill Composting Recycling Treatment	Feeding opportunities for potentially large numbers of scavenging birds e.g. Gulls, Corvids, Starlings, Pigeons, Raptors.
Water	Nature Reserves Reservoirs Ponds River diversions Sewage/Water Treatment	Diversity of feeding, loafing, breeding and roosting opportunities for Waterfowl, waders and gulls e.g. Swans, Feral and Wild Canada, Greylag and 'grey' geese, Gulls, Ducks, Herons and Egrets, Wading birds such as Lapwing, Oystercatcher etc.
Wetland	Nature Reserves Marshland Reedbeds Swales SuDS Schemes Drainage schemes Flood Alleviation Works Managed retreat	Feeding, roosting, breeding, and loafing for Waterfowl, passerines, <i>hirundines</i> e.g., Swans, Feral and Wild geese, Ducks, Herons and Egrets, Gulls, Wading birds etc and potential for large Starling or Swallow roosts to form (e.g., Reedbeds).
Sports facilities	e.g., Golf course open grassland, watercourses Fishing lakes Sailing clubs	Landscape developments risking feeding, loafing, and breeding opportunities for different species such as Canada Geese, Gulls, Pigeons,

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		Corvids, Starlings, Herons and Egrets etc.
Property development	Housing Factories Industrial Estates / Units Mineral extraction Green roofs	Diverse human factors and built environment providing food and shelter for urban species such as Pigeons, Gulls, Corvids, Starlings etc.
Rural	Woodland plantations Pig rearing facilities Poultry facilities	Potential feeding, nesting and cover for species such as Pigeons, Gulls, Corvids, Starlings, Game birds etc.
Energy	Solar farms	Potential perching and breeding opportunities for Gulls, Corvids and Feral Pigeons.
	Tidal barrage	Changes to waterfowl / wader behaviour / distribution.
	Energy plantations	Provision of potential roosting habitat for passerines (Starling).

Whilst solar farms (PV arrays) have the potential to provide some attractants (perches, shelter, and recesses for breeding), peer-reviewed research⁴ suggests that “PV arrays would not increase hazards associated with bird-aircraft collisions”.

Research in this field is still in its infancy, and a precautionary approach should be taken when assessing birdstrike risk associated with a planning application on a case-by-case basis. Natural England⁵ state:

‘Until further scientific evidence is accrued to support any positive or negative impacts of solar farms on birds, we recommend that developments should be considered on a site-by-site basis with consideration given to 1) the habitat available

⁴ Bird use of solar photovoltaic installations at US airports: Implications for aviation safety

Travis L. DeVault^a, Thomas W. Seamans^a, Jason A. Schmidt^a, Jerrold L. Belant^b, Bradley F. Blackwell^a, Nicole Mooers^a, Laura A. Tyson^a, Lolita Van Pelt^c

^a US Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services, National Wildlife Research Center, USA

^b Department of Wildlife, Fisheries and Aquaculture, Mississippi State University, USA

^c US Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services, USA

⁵ Evidence review of the impact of solar farms on birds, bats and general ecology (NEER012) 1st edition - 9th March 2017, Natural England

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prior to the development, 2) the habitat that will co-occur with the development and 3) the potential for attraction to polarotactic insect species (i.e., is the development close to a water body)'.

Insects attracted to PV arrays are likely to primarily attract passerine species not considered hazardous to aircraft. In addition, there is the possibility that PV arrays may provide fewer attractants than existing habitat (either open land or open flat roof habitat), so each application should be assessed individually as some may have the potential to reduce the presence of current hazardous bird populations.

If a proposed development involves the removal, storage, and redistribution of fertile topsoil, this can expose significant populations of invertebrates and small vertebrates. These can provide significant feeding attractants for Gulls, Corvids (the Crow family) and Starlings. Whilst such attractants are generally short-lived, they have the potential to increase risk that may be significant to the aerodrome. If there is doubt about a development, a second opinion in relation to birdstrike concerns should always be sought.

The range of individual considerations and the potential attractions that can arise from just one of these developments are given below. This provides a demonstration of the depth of concerns that may arise and the considerations that are necessary. Even if a building or development itself does not present apparent attractants, the construction phase might, for example due to standing water and the disturbance of soil. Many hazardous bird species are adept at exploiting these conditions, hence the construction phase should always be assessed with suitable mitigation put in place.

Development	Type	Attraction
Example: Industrial Estate Development	Development site - ground works	Corvids, Gulls & scavenging birds feeding on soil invertebrates
	Development site - standing water	Loafing or bathing gulls and dabbling ducks (Mallard). Potential for feeding (e.g., Grey Heron)
	Development site - human factors	Worker's cafeteria or mobile food outlet; waste food attracting Feral Pigeons, Starlings, Corvids or Gulls.
	Construction works	As above
	Construction works - buildings	Unfinished buildings providing nesting grounds for Feral Pigeons
	Completed works - rooftops	Open flat roofs – breeding / roosting habitat for roof nesting gulls

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	Completed works - landscaping	Tree planting or hedgerows presenting nesting opportunities for Woodpigeon / Rook and berry, fruit or nut provision providing food for Thrushes, Starlings, Pigeons etc.
	Completed works - SuDS	Drainage swales resulting in streams, ponding / open grassland etc. suitable for waterfowl.

The above table shows the depth of consideration needed to determine whether an apparently unattractive development may result in a birdstrike risk. Similarly, assessments of clearly attractive sites e.g., waste disposal facilities would need reviews based on other factors. Another example is given below.

Development	Concern	Risk
e.g., Landfill	Waste disposal	Thousands of scavenging gulls, corvids, Starlings etc.
	Location	Proximity to aerodrome
		In relation to gull roosts
		In relation to rookeries
		In relation to Starling roosts
		In relation to other feeding sites
	Flight lines	Proximity / probability of crossing aerodrome or approaches

Sites that result in increased risk during construction are likely to be located in relatively close proximity to the aerodrome, or beneath the aerodrome approaches hence a responsible development should address all aspects of the works to ensure that both the construction and final outcome are appropriately managed.

6. Management Controls

National and international guidance material, alongside experts in birdstrike management can help provide the necessary detail for reducing the potential risk from developments to levels acceptable to an aerodrome operator. If a specific development cannot be suitably controlled, early consultation with the aerodrome should at least enable the developer to consider alternative locations.

Where developments can be appropriately controlled, an example of potential actions is provided in the case where buildings may provide flat roofs for nesting gull colonies or

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ledges and gullies for Feral Pigeons, Jackdaws and Starlings to establish nest sites or perching areas. In addition, solar arrays can provide similar attractants. Opportunities to reduce the risk from rooftop design could include:

- Netting to proof roofs and exclude hazardous species as required.
- Roof overhangs kept to a minimum.
- Ledges beneath overhangs and external protrusions avoided where possible.
- Redesign roof to steeply pitched to deter gulls from nesting, roosting, and resting.
- Lighting structures proofed to prevent perching.
- Solar arrays to be designed close-fitting to reduce potential perching / nesting opportunities.
- Choice of roof material to reduce attractiveness (smooth surfaces with minimum protrusions or vents to reduce breeding opportunities).
- Roof spaces to be designed in such a way as to prevent access by birds.
- Self-closing doors to prevent access to birds or openings fitted with netting or plastic strip enclosure materials.
- Safe access enabled for on foot access to all areas of roof that cannot be proofed.
- Outside dining areas enclosed or avoided near an aerodrome.
- Green and brown roofs near an aerodrome not to be included in the design.

7. Monitoring & Inspections

Developments that have been carefully considered for wildlife hazards may have a combination of methods or standards attached to ensure any residual attractants that cannot be designed out do not increase risk to an aerodrome. As these planning requirements may be essential to the safe development and operation of a site, they may need to be independently reviewed to ensure they continue to be effective. Wildlife Hazard Management Plans should therefore be results based, to enable the applicant to be flexible in their approach. Should circumstances change and species of concern no longer be present, less effort may be required to meet the needs of a results-based plan. Equally, should an approach fail to achieve the desired results, additional effort may need to be established. In order to develop a results-based WHMP, all interested parties need to agree on achievable threshold figures that will result in no further increase in background populations or risk to the aerodrome, i.e. the number of each species that can be tolerated on site before deterrence should be carried out.

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An aerodrome will derive such a threshold figure from an estimation of the background population⁶ of that species in the local area in combination with potential risk to aircraft. An increase above the background population would be indicative of increased risk. A precautionary approach to the setting of the threshold figure will be adopted in the absence of robust ornithological data specific to the development. If WHMPs are necessary for breeding birds, the threshold figures shall be set at zero (as measured by breeding success). In order for the efficacy of BHMPs to be audited, records of actions taken and results must be kept and a programme of audit agreed.

During the breeding season for gulls, for example, inspections to assure compliance with a 'no breeding' WHMPs should be carried out at least weekly during the breeding season (typically April to June), in order to ensure that all hazardous birds found nesting are dispersed and any nests and/or eggs are removed. This process should be fully documented to provide an audit trail and will require separate licensing if required.

For roosting or loafing (resting) birds, regular inspections should be carried out and if the threshold level is exceeded then birds should be dispersed. The frequency of inspections should be dictated by the presence of hazardous birds and be sufficient as to ensure the efficacy of the plan. This process should be fully documented to provide an audit trail and compliance site visits from the aerodrome operator may be required, subject to the necessary Health and Safety considerations.

If a development is close to the critical airspace of an aerodrome, then it may be necessary to have a communication plan in place to contact Aerodrome Operations staff at the aerodrome concerned before any required bird dispersal takes place. In some cases, developers have engaged pest control companies to carry out inspections and bird deterrence on their behalf.

It is important that if bird numbers at a development increase and bird deterrence methods are not proving effective, a process to ensure the aerodrome operator is informed should be included in any WHMP.

Important measures that **may** be included in a WHMP are provided here for general guidance only:

⁶ The level and type of bird activity that would have occurred prior to the development.

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- Confirmation that access to all areas of the site is available and by what method, to ensure that inspections can be carried out (See CAA Publication 'CAP 772: Wildlife Hazard Management at Aerodromes' available at www.caa.co.uk).
- Confirmation that an appropriate inspection schedule is to be operated.
- Confirmation that any control is to be carried out under appropriate licences.
- Details of bird species and, where applicable, species behaviours that will be subject to management plans along with clearly designated thresholds to define when dispersal actions should be instigated and what they should achieve.
- Information on communication plans to contact Aerodrome Operations staff at the aerodrome concerned before bird dispersal takes place (in line with agreed thresholds).
- Details of any dispersal methods to be used.
- An auditable record of all BHMP information to be maintained detailing: dates, times and description of monitoring carried out, species and number of birds recorded, dispersal effort provided and the results of any dispersals.
- Provision for the aerodrome to inspect the records and undertake no-notice visits to the site (where necessary).
- Duration of the WHMP linked to the site and not the site owner or operator.

Early pre-planning application consultation with the aerodrome operator on the content of a WHMP is recommended. It is important that the aerodrome seeks to ensure that WHMPs are results-based, enabling the efficacy of the plan to be assessed in a fair and transparent way. Results-based WHMPs also enable the applicant to develop the WHMP in the most cost-effective way, as they are less prescriptive than plans detailing the equipment to be used. Please contact the aerodrome to discuss their requirements.

This advice note has been revised and updated by the Combined Aerodrome Safeguarding Team (CAST) from that produced by the Airport Operators Association (Safeguarding Working Group) with the support of the CAA. Its contents may be reproduced as long as the source is acknowledged.

Further CAST Safeguarding Information is available at <https://www.caa.co.uk/combined-aerodrome-safeguarding-team-cast/>.

Project No – J156

Proposed Care Home Development, Cricketfield Road, Uxbridge
Aviation Impacts Assessment

Appendix B

Provisional response by HAL (Heathrow Airport Ltd)



Peter Forbes <peteraforbes@googlemail.com>

Re: Proposed care home development at Cricketfield Road, Uxbridge UB8 2NX

1 message

DD - Airport Safeguarding/BAA <safeguarding@heathrow.com>
To: Peter Forbes <pforbes@alanstratford.co.uk>

7 July 2026 at 13:47

Heathrow Public

Hi Peter,

Thank you for your email.

Heathrow Airport is a statutory consultee, so Hillingdon will refer this application to us following your formal planning application.

To provide you with some reassurance I have reviewed the proposed elevations of the building and cranes and can confirm that there would be no impact to our Obstacle Limitation Surfaces (OLS) or Instrument Flight procedures (IFPs). However, if these elevations were to be increased prior to submitting planning then a further review would be required.

Please be advised that no structure should exceed 140m Above mean Sea level (AMSL) as this would create an unacceptable impact on Heathrow IFP's.

I can see that the proposed roof design will consist of flat/shallow pitched surfaces and will cover an areas greater than 500 Sq.M. Therefore, this will need to be managed and monitored to ensure it is not attractive to nesting birds. Heathrow would therefore as for this to be done via a planning condition following consultation at the planning stages. The need for the condition could be mitigated if a robust Bird Hazard management Plan is submitted at planning. This BHMP should fall in line with CAST Advice note 3, see link below.

[CAST Advice Notes | UK Civil Aviation Authority](#)

I don't anticipate any impacts to the Instrument Landing Systems (ILS) or Radar utilised for the operations of Heathrow runways. However, this will need to be confirmed by NATS.

If it is intended to introduce large areas of soft landscaping, then this should be design with minimal berry/fruit bearing species and trees planted with centres 4m or greater. Areas of open water as part of the Suds design should be avoided but where necessary they should be small and narrow, steep banks and marginal planting, such as Common Reed, planted around the edges.

If wind turbines are being proposed as part of the energy strategy, then full details should be supplied to Heathrow to allow the necessary assessments to be completed.

I hope this information was useful but please let me know if you have any further questions.

Kind Regards

Simon

From: Peter Forbes <pforbes@alanstratford.co.uk>

Sent: 06 July 2026 15:39

To: DD - Airport Safeguarding/BAA <safeguarding@heathrow.com>

Subject: Fwd: Proposed care home development at Cricketfield Road, Uxbridge UB8 2NX

Caution: external email. Unless you recognise the sender and know the content is safe, do not click links or open attachments.

Hi Simon

My company has been commissioned to undertake an Aviation Impacts Assessment for a proposed new care home development at Cricketfield Road, Uxbridge UB8 2NX.

Whilst I would anticipate that HAL is likely to be a statutory consultee for the planning application, I am writing to ask whether you could provide a preliminary view on whether the development might breach any of the safeguarding criteria for London Heathrow Airport? Please note that we are also contacting NATS and the MoD DIO with a similar request regarding the safeguarding criteria for their assets.

For further info, I attach copies of the site location plan, the proposed site plan and the building elevation. The maximum building height for the care home is approx 17.6m agl (56.6m amsl). We would anticipate that any crane used during construction would be a maximum of 15m above the roof height (ie approx 32.6m agl / 71.6m amsl). The building footprint comprises some 1,824 sq m with maximum dimensions of approx 69m (length) and approx 49m (width). You should also note that there are several existing buildings of a similar height in close proximity to the development, including Hillingdon Civic Centre (some 60m to the north) which has a larger overall building footprint.

I look forward to hearing from you but, in the meantime, please get in touch with me if you need any further information.

Brgds

Peter

Peter A Forbes | Director

Alan Stratford and Associates Limited

Elfin House | 1A Elfin Grove

Teddington | Middlesex TW11 8RD

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Alan Stratford
& Associates

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Project No – J156

Proposed Care Home Development, Cricketfield Road, Uxbridge
Aviation Impacts Assessment

Appendix C

Provisional response by Ministry of Defence, Defence
Infrastructure Organisation (re Northolt Airport)



Ministry of Defence
Safeguarding Department
DIO Head Office
St George's House
Whittington
Lichfield
Staffordshire
WS14 9PY

DIO ref: 10071357

Mobile: +44 (0)7974090123
E-mail: DIO-Safeguarding-
Statutory@mod.gov.uk

Peter A Forbes
Elfin House
1A Elfin Grive
Teddington
Middlesex
TW11 8RD

13th July 2026

Dear Peter

Proposal: scoping request for a proposed new care home.

Location: Cricketfield Road, Uxbridge UB8 2NX.

Thank you for consulting the Ministry of Defence (MoD) on the above pre- application request which was received by this office on the 6th July 2026.

The Defence Infrastructure Organisation (DIO) Safeguarding Team represents the Ministry of Defence (MOD) as a consultee in UK planning and energy consenting systems to ensure that development does not compromise or degrade the operation of defence sites such as aerodromes, explosives storage sites, air weapon ranges, and technical sites or training resources such as the Military Low Flying System.

Alan Stratford and Associates Limited submitted a proposed site plan, proposed elevation plan and site location plan to support their pre application request in relation to the construction of a new care home development.

At this stage because details of the development and supporting infrastructure are not fully available, and only a site plan and initial scoping layout are available for the proposed development, only an initial assessment has been completed, and we can provide the following advice.

The proposed development site occupies the statutory safeguarding zone surrounding RAF Northolt. The site is approximately 3.5km from RAF Northolt and occupies the statutory aerodrome height, technical and birdstrike safeguarding zones surrounds the aerodrome

Aerodrome heights

The airspace above and around aerodromes is safeguarded to maintain an assured, obstacle free environment for aircraft manoeuvre. This development site sits beneath a piece of protected airspace called the Obstacle Limitation Surface (OLS). The OLS needs to be kept free of obstruction from tall structures to ensure that aircraft transiting to and from or circuiting the aerodrome can do so safely. A new care home development at this location will not cause an infringement at RAF Northolt. However, should the development be permitted, the use of cranes and tall construction equipment could cause an infringement to the OLS which would be of concern to the MOD and therefore we would likely require a crane management plan (CMP) to address the impact.

Birdstrike

Within this zone, the principal concern of the MOD is that the creation of new habitats may attract and support populations of large and, or flocking birds close to the aerodrome. Should any future scheme feature any drainage schemes, which includes an open water body or the creation of any habitat, this could increase the bird strike risk to aircraft operating in and out of RAF Northolt. Should this scheme progress to application stage, the MOD will need to be consulted on any drainage proposals, landscaping schemes or creation of large water bodies.

Technical

The technical safeguarding zones define areas within which the height of development, the materials used in construction, and the potential introduction of sources of electro-magnetic fields are of particular concern as they can impact the operation and capability of radars, radio transmitter/ receiver sites and other types of technical installations supporting operational defence or national security requirements. Having reviewed the proposals, I can confirm the MOD has no concerns in principle with regard to the scale and massing of the proposed care home development indicated on the submitted plans.

The MoD must emphasise that the advice provided within this letter is in response to the data and information detailed in the documents titled; proposed site plan, proposed elevation plan and site location plan dated December 2025. Any variation of the parameters (which include the location, dimensions, form, and finishing materials) detailed may significantly alter how the development relates to MoD safeguarding requirements and cause adverse impacts to safeguarded defence assets or capabilities. In the event that any amendment, whether considered material or not by the determining authority, is submitted for approval, the MoD should be consulted and provided with adequate time to carry out assessments and provide a formal response.

I trust this is clear however should you have any questions please do not hesitate to contact me.

Yours sincerely

DIO Safeguarding Team

Project No – J156

Proposed Care Home Development, Cricketfield Road, Uxbridge
Aviation Impacts Assessment

Appendix D

Provisional response by NATS (National Air Traffic Services)



Peter Forbes <peteraforbes@gmail.com>

RE: Proposed care home development at Cricketfield Road, Uxbridge UB8 2NX [SG41833]

1 message

ROSSI, Sacha <Sacha.Rossi@nats.co.uk>

10 July :

To: Peter Forbes <pforbes@alanstratford.co.uk>

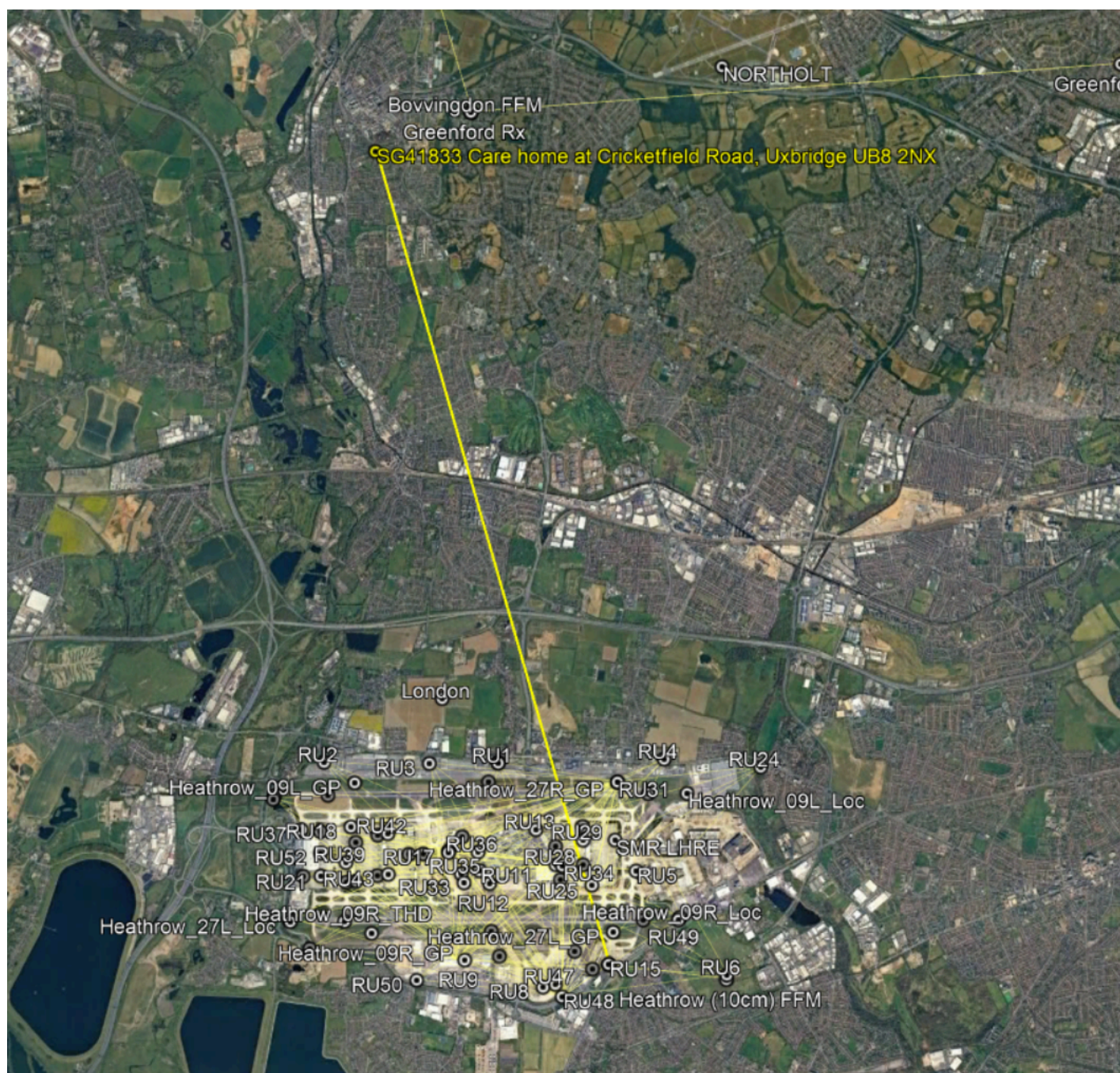
Cc: NATS Safeguarding <NATSSafeguarding@nats.co.uk>

Hi Peter, at this distance, I do not envisage any issues with this proposal.

Regards

Sacha

NATS Safeguarding Office



**NATS**

Sacha Rossi
ATC Systems Safeguarding Engineer

D: 01489 444205

E: sacha.rossi@nats.co.uk

4000 Parkway, Whiteley,
Fareham, Hants PO15 7FL

www.nats.co.uk

NATS Internal

From: Peter Forbes <pforbes@alanstratford.co.uk>
Sent: 06 July 2026 15:33
To: ROSSI, Sacha <Sacha.Rossi@nats.co.uk>
Subject: Fwd: Proposed care home development at Cricketfield Road, Uxbridge UB8 2NX [SG41833]

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Hi Sasha

My company has been commissioned to undertake an Aviation Impacts Assessment for a proposed new care home development at Cricketfield Road, Uxbridge UI

Whilst I would anticipate that NATS is likely to be a statutory consultee for the planning application, I am writing to ask whether you could provide a preliminary whether the development might breach any of your safeguarding criteria for NATS' owned assets?

For further info, I attach copies of the site location plan, the proposed site plan and the building elevation. The maximum building height for the care home is ap 17.6m agl (56.6m amsl). We would anticipate that any crane used during construction would be a maximum of 15m above the roof height (ie approx 32.6m agl , amsl. The building footprint comprises some 1,824 sq m with maximum dimensions of approx 69m (length) and approx 49m (width). You should also note that several existing buildings of a similar height in close proximity to the development, including Hillingdon Civic Centre (some 60m to the north) which has a larger building footprint.

I look forward to hearing from you but, in the meantime, please get in touch with me if you need any further information.

Brgds

Peter

Peter A Forbes | Director

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