Safety and Airspace Regulation Group         ACN Reference:       Version:       Date:       Date of Original         2022-04-0173       2.0       D4/04/2022       18/03/2022         NAVAID CALIBRATION FARNBOROUGH ILS         NDDS         Subject to NOTAM: No         Date:       Times (ALL TIMES UTC)         12" April 2022 - 26" May 2023       08:00 - 22:00       Vertical Limits:         Allocated Mode 3A (SSR):         SFC - 3.8.00t       0024       Allocated Mode 3A (SSR):         Type:       D462 or PA31 Calisign:       VOR xx:       *FlightCal"         Type:       D462 or PA31 Calisign:       VOR xx:       *FlightCal"         Event Sponsor(s):       Aliocated Mode 3A (SSR):       Section 2         Event Sponsor(s):       Aliocated Mode 3A (SSR):       Section 2         Famborough Airport       *FlightCal"       Yes - Subject to the conditions in Section 2         Famborough Airport       *FlightCal"       Flight Calibration House       17-19 Cecil Pashley Way Shoreham Airport         Famborough Airport       01252 526017       02380 401110       Vest Sussex       Shoreham Airport         Farmborough Syntaxs, Heatman, Cellarm       01252 526017       02380 401110       Vest Sussex,	AIRSPACE CO-ORDINATION NOTICE									
ACN Reference:       Version:       Date:       Date of Original         2022-04-0179       2.0       04/04/2022       18/03/2022       CM Auture of Version:         NAVAID CALIBRATION FARNBOROUGH ILS         NAVAID CALIBRATION FARNBOROUGH ILS         NOS         Subject to NOTAM: No         Date(s) of activity/Validity:       Times (ALL TIMES UTC)         12" April 2022 - 26" May 2023       08:00 - 22.00       Vertical Limits:         Subject to NOTAM: No         Date (a) of activity/Validity:         Times (ALL TIMES UTC)         12" April 2022 - 26" May 2023       08:00 - 22.00         Vertical Limits:         Subject to NOTAM: No         Output:         Value and Mode 3A (SSR):         SFC - 3.800t         Output:         NDS Approved:         Type:       DA62 or PA31         Calibration Services         Calibration Services         Calibration Services         Calibration Services         Calibration Services         Galignt: Calibration Services <td colsp<="" th=""><th colspan="8"></th></td>	<th colspan="8"></th>									
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FARNBOROUGH ILS         NDS         Subject to NOTAM: No         Date(s) of activity/Validity:         12" April 2022 – 26" May 2023       08:00 – 22:00         Vertical Limits:         Allocated Mode 3A (SSR):         SFC – 3,800ft       0024         Aircraft Details:       NDS Approved:         Type:       DA62 or PA31         callsign:       VOR::         Farnborough Airport       FlightCal"         Farnborough Airport       Flight Calibration Services         Calibration House       17-19 Cecil Pashley Way         Shoreham Airport       BN3 SFF         GU14 6XA       01252 526017         Vest Sussex       BN43 SFF         O1243 538245       ops@flight-cal.com         ATS Units/       Controlling Agencies:         Farnborough       01252 526017         Swanwick LTC – SWA1       02380 401110         Inte: Faircaks. Heathrow Tower. Lasham. Odiham       01483 798304	2022-04-0179 2.0 04/04/2022	10/02/2022								
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12 <sup>th</sup> April 2022 - 26 <sup>th</sup> May 2023       08:00 - 22:00         Vertical Limits:       Allocated Mode 3A (SSR):         SFC - 3,800ft       0024         Aircraft Details:       NDS Approved:         Type:       DA62 or PA31 Callsign:       VOR xx 'FlightCal''         Event Sponsor(s):       Aircraft Operator(s):       Fight Calibration Services         Famborough Airport       Flight Calibration Services       Calibration House         Famborough       Hispather       Shoreham Airport         Hampshire       GU14 6XA       Geographical Limits:         ATS Units/ Controlling Agencies:       Geographical Limits:         Famborough       01252 526017 02380 401110       Difference         Info: Faircoaks, Heathrow Tower, Lasham, Odiham       01483 798304       Geographical Limits:		Times (ALL TIMES UTC)								
SFC - 3,800ft     0024       Aircraft Details:     NDS Approved:       Type:     DA62 or PA31 (Callsign: VORXX "FlightCal"     Yes - Subject to the conditions in Section 2       Event Sponsor(s):     Aircraft Operator(s):       Farnborough Airport     Flight Calibration Services       Farnborough Hampshire     Calibration House       GU14 6XA     Shoreham Airport       ATS Units/ Controlling Agencies:     Geographical Limits:       Farnborough     01252 526017 02380 401110       Marc Fairpace Reservations:     01483 798304										
Aircraft Details:       NDS Approved:         Type:       DA62 or PA31 Callsign:       Yes – Subject to the conditions in Section 2         Event Sponsor(s):       Aircraft Operator(s):         Farnborough Airport Farnborough Hampshire GU14 6XA       Flight Callbration Services Callbration House 17-19 Cecil Pashley Way Shoreham Airport West Sussex BN43 5FF         ATS Units/ Controlling Agencies:       Geographical Limits:         Farnborough Hampshire GU14 6XA       01252 526017 02380 401110         ATS Units/ Controlling Agencies:       01252 526017 02380 401110         Farnborough Hampshire GU133 (All)       01483 798304	Vertical Limits:	Allocated Mode 3A (SSR):								
Type:       DA62 or PA31 VOR.xx       "FlightCa!"       Yes – Subject to the conditions in Section 2         Event Sponsor(s):       Aircraft Operator(s):         Farnborough Airport Farnborough Hampshire GU14 6XA       Flight Calibration Services Calibration House 17-19 Cecil Pashley Way Shoreham Airport West Sussex BN43 5FF 01243 538245 ops@flight-cal.com         ATS Units/ Controlling Agencies:       Geographical Limits:         Farnborough Hampshire GU14 6XA       01252 526017 02380 401110 Info: Fairoaks, Heathrow Tower, Lasham, Odiham	SFC – 3,800ft	0024								
Callsign:       VOR.xx       "FlightCal"       Yes - Subject to the conditions in Section 2         Event Sponsor(s):       Aircraft Operator(s):       Aircraft Operator(s):         Famborough Airport       Flight Calibration House       17-19 Cecil Pashley Way         Famborough Hampshire       Guita Sasex       BN43 5FF         GU14 6XA       Geographical Limits:         ATS Units/       Geographical Limits:         Famborough Controlling Agencies:       Geographical Limits:         Famborough Officer Reservations:       01252 526017         D2380 401110       Into: Fairoaks, Heathrow Tower, Lasham, Odiham         Airspace Reservations:       O1483 798304		NDS Approved:								
Event Sponsor(s):       Aircraft Operator(s):         Famborough Airport       Flight Calibration House         Famborough       T-19 Cecil Pashley Way         Hampshire       U14 6XA         GU14 6XA       EN43 5FF         O1243 538245       ops@Ilight-cal.com         ATS Units/       Geographical Limits:         Controlling Agencies:       Geographical Limits:         Famborough       01252 526017         Warwick LTC – SWA <sup>1</sup> 02380 401110         Info: Fairoaks, Heathrow Tower, Lasham, Odiham       01483 798304	71	<b>Yes</b> – Subject to the conditions in Section 2								
Farnborough Airport       Flight Calibration Services         Farnborough       Hampshire         GU14 6XA       Shoreham Airport         Vest Sussex       BN43 5FF         01243 538245       ops@flight-cal.com         ATS Units/       Geographical Limits:         Controlling Agencies:       Geographical Limits:         Famborough       01252 526017         Swanwick LTC – SWA1       02380 401110         Info: Fairoaks, Heathrow Tower, Lasham, Odiham       O1483 798304		Aircraft Operator(s):								
Controlling Agencies:       Geographical Limits:         Famborough Swanwick LTC – SWA <sup>1</sup> 01252 526017 02380 401110       Info: Fairoaks, Heathrow Tower, Lasham, Odiham         Info: Fairoaks, Heathrow Tower, Lasham, Odiham       01483 798304       Image: Control of the state of the sta	Farnborough Hampshire GU14 6XA	Calibration House 17-19 Cecil Pashley Way Shoreham Airport West Sussex BN43 5FF 01243 538245								
Swanwick LTC – SWA1 02380 401110   Info: Fairoaks, Heathrow Tower, Lasham, Odiham     Airspace Reservations:     EG D133 (All) Pirbright   01483 798304		Geographical Limits:								
EG D133 (All) Pirbright 01483 798304	Farnborough 01252 526017 Swanwick LTC – SWA <sup>1</sup> 02380 401110									
	Airspace Reservations:									
Departure/Destination Aerodrome(s) ACN Issued by:	EG D133 (All) Pirbright 01483 798304									
	Departure/Destination Aerodrome(s)	ACN Issued by:								
EGKA, EGLF AS3	EGKA, EGLF	AS3								

<sup>1</sup> For Heathrow Radar

# SECTION 1: CO-ORDINATION ARRANGEMENTS (GENERAL)

1. The pilot/operator is requested to telephone the ATC authorities on the cover prior to departure in order to notify or update the sortie details including area(s) of operation and planned levels (quoting the ACN Reference). A minimum of 24 hours' notice should be given unless specified in Section 2.

2. There may be other aircraft and/or activities outside Controlled/Regulated Airspace unknown to ATC.

3. The carriage and operation of a serviceable transponder (including Mode 'C') has been specified.

4. The pilot will be responsible for obtaining all necessary ATC clearances and for maintaining R/T contact with appropriate ATC authorities.

5. The pilot/operator will be responsible for obtaining prior clearances to enter any UK Danger Areas affected by the flight profile from the appropriate Range Control Authority unless this is specifically detailed in Section 2.

6. Other Unusual Aerial Activities (UAAs) may be notified to the CAA Safety and Airspace Regulation Group (SARG) and may take place within the airspace encompassed by this flight. The pilot/operator is to ensure that UK Daily NOTAM Nav Warnings are consulted prior to each flight.

7. All flights within Controlled Airspace are subject to the requirements of a Flight Plan in accordance with UK AIP ENR1.10. The ACN Reference should be entered into Field 18 of the Flight Plan together with any relevant 'special handling' codes.

8. Flight prioritisation and Non-Deviating Status is in accordance with the information specified on the ACN Cover. Such status may be afforded to part or all of the flight – see Section 2.

9. Availability of an ATS from Plymouth Military, Swanwick Military (78 Sqn) or Western Radar is subject to unit capacity, priorities and limitations of radar and radio coverage. Minimum pre-flight notification as per UK AIP ENR 1.6 unless otherwise specified in Section 2 of this ACN.

10. The CAA actively encourages the use of Moving map technology in the planning and flying phases of flights to reduce the risk of airspace infringements.

# PUBLICATIONS AND CHANGES

11. The activity area may lie within Controlled and Uncontrolled Airspace as well as airspace reserved for military use. Aircrew are to thoroughly familiarise themselves with UK airspace structures and procedures, in particular those laid down within the UK Aeronautical Information Publication (UK AIP), ENR 1.1 and be fully conversant with UK Flight Information Services in accordance with UK CAP 493 (MATS Pt 1).

12. The CAA VFR 1:500,000 and 1:250,000 charts and the UK AIP ENR 5 depict some, but not all aviation activity sites and amendments should also be checked. Please refer to <u>http://www.nats-uk.ead-it.com</u>

13. This ACN details specific coordination essential to the activity taking place and does not remove the need for aircraft operators to comply with national flight planning and notification procedures. Pilots and ANSPs are required to ensure that all related aviation sites are aware of this planned activity and of subsequent changes not captured within this document.

14. The Sponsor or Event Organiser should co-ordinate any changes to this ACN with SARG quoting the ACN Reference at the top of the page.

Airspace Regulation (Utilisation) – AS3 Email: <u>AROps@caa.co.uk</u> Tel: 01293 983880

# SECTION 2: CO-ORDINATION ARRANGEMENTS (SPECIFIC)

15. This ACN details the flight profiles required to complete a calibration of the ILS, to both runways, at Farnborough.

## 16. This ACN supersedes ACN 2022-03-0385.

17. **Time.** Due to the potential impact to Heathrow, the calibration should only take place when Heathrow are on westerlies. In addition, the time of the calibration will be dictated by the alternation programme<sup>2</sup> and is unlikely to be permitted whilst aircraft are landing on RWY27L.

18. **Notification.** The sponsor is to notify the agencies listed on page one of this ACN at least 1 week prior to undertaking the task. In addition, the pilot is to contact the appropriate agencies at least 4 hours prior to departure to confirm final details and availability of an ATS.

## 19. **Serials.** The following serials will be flown **VFR**, with heights in relation to the threshold elevation:

## Runway 06

Profile ID	Profile Number	Manoeuvre	Height	Start	End	Comments
A	04	Localiser Arc ±35°/CL ( <b>TX1</b> )	1,500ft	6nm		ILS Protection required ±10° CHARTS - PAGE 5
В	14	Level Slice	1,500ft	12nm	1	CHARTS - PAGE 6
с	01	Centreline	3,800ft	12	50ft LLZ	ILS Protection required from 5nm + AGL check CHARTS - PAGE 7
D	04	Localiser Arc ±35°/CL ( <b>TX2</b> )	1,500ft	6nm		ILS Protection required ±10° CHARTS - PAGE 5
E	15	8° Left of CL Slice	1,500ft	11	8	CHARTS - PAGE 8
F	16	8° Right of CL Slice	1,500ft	11	8	CHARTS - PAGE 9
G	14	Level Slice	1,500ft	12	1	CHARTS - PAGE 6
н	01	Centreline	3,800ft	12	50ft LLZ	ILS Protection required from 5nm + AGL check CHARTS - PAGE 7

## Runway 24

Profile ID	Profile Number	Manoeuvre	Height	Start	End	Comments
А	04	Localiser Arc ±35°/CL	1,500ft	6nm		ILS Protection required ±10° CHARTS - PAGE 10
В	14	Level Slice	2,000ft	25nm	1	CHARTS - PAGE 11
С	01	Centreline	3,800ft	12	50ft LLZ	ILS Protection required from 5nm + AGL check CHARTS - PAGE 12
D	04	Localiser Arc ±35°/CL ( <b>TX2</b> )	1,500ft	6nm		ILS Protection required ±10° CHARTS - PAGE 10
E	15	8° Left of CL Slice	1,500ft	11	8	CHARTS - PAGE 14
F	16	8° Right of CL Slice	1,500ft	11	8	CHARTS - PAGE 15
G	14	Level Slice	1,500ft	12	1	CHARTS - PAGE 1
н	01	Centreline	3,800ft	12	50ft LLZ	ILS Protection required from 5nm + AGL check CHARTS - PAGE 12

<sup>&</sup>lt;sup>2</sup> The Heathrow alternation programme for 2022 can be accessed <u>here</u>.

20. **Priority.** This flight has been afforded Non-Deviating Status (NDS) whilst established on a measured run only and within Controlled Airspace (CAS), (*UK AIP ENR 1.1 (4.2) & CAP 493 – Section 1, Ch4, Para 17 refers*,). In order to reduce the impact to other airspace users, the controlling authority may request that the pilot hold, or accept radar vectors between runs in order to make best use of the airspace, or to reduce overall delays.

21. **Air Traffic Service (ATS) Provision – CAS.** Access to controlled airspace is subject to the prevailing traffic situation and controller workload. The pilot is responsible for obtaining a clearance to enter controlled airspace prior to penetration.

22. **ATS Provision – Outside CAS.** Farnborough Radar will provide ATS outside CAS.

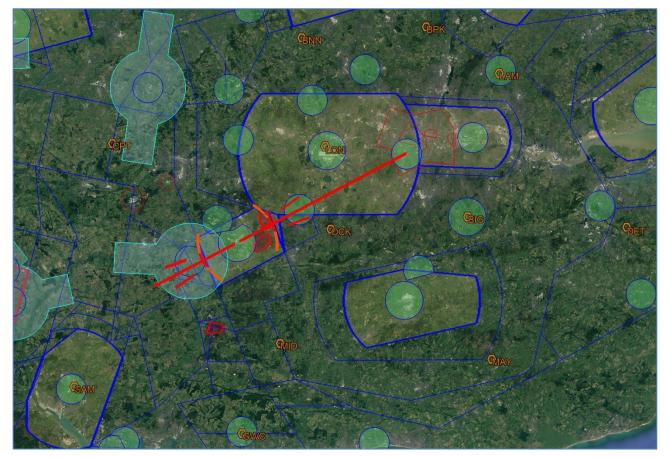
23. **Interaction with Other ATC Units.** Farnborough ATC, as the primary controlling authority, are responsible for conducting all tactical coordination with the adjacent ATS Units

24. **Danger Areas (DAs).** Access to any DA is subject to military requirements and access is not guaranteed. The sponsor is to engage with the DA Authority at the earliest opportunity to coordinate access, noting that access may only be possible outside notified operating hours. Should either range not be contactable, ATC are to coordinate directly with Longmoor Ops (01420 483405).

# **SECTION 3**

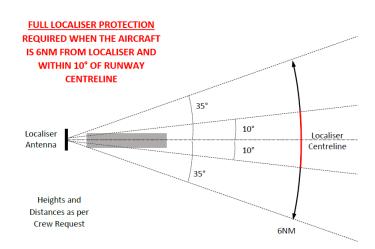
## Area of Operation

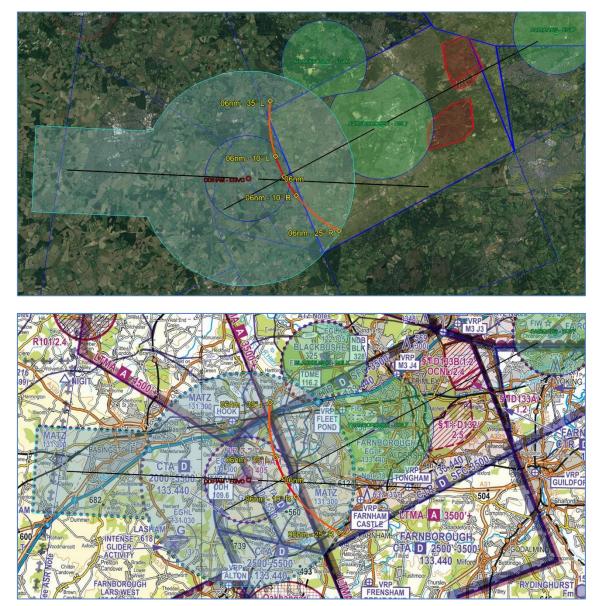
25. Charts highlighting the area of operation are shown below. These are for illustrative purposes only and not for operational planning.



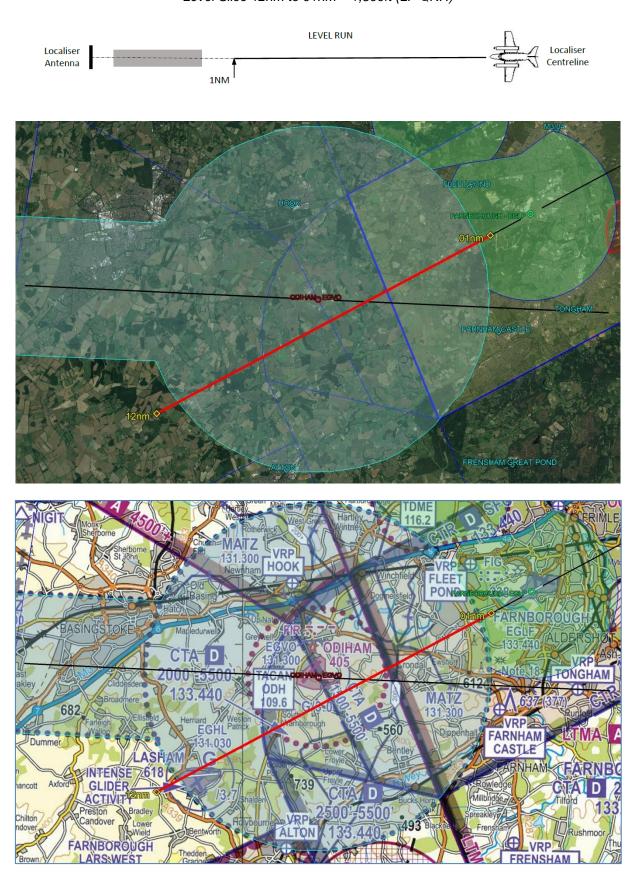
## Chart 1 – Overview

#### RUNWAY 06 PROFILE 04 Localiser Arc ±35°/CL @ 6nm – 1,500ft (LF QNH)

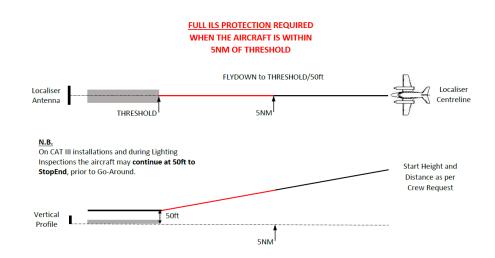


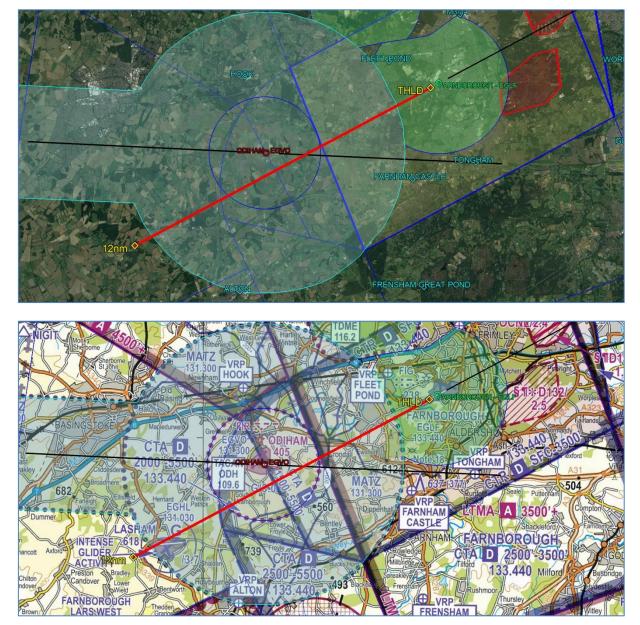


#### RUNWAY 06 PROFILE 14 Level Slice 12nm to 01nm – 1,500ft (LF QNH)

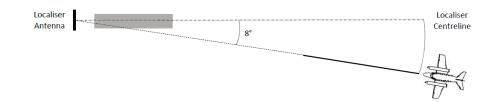


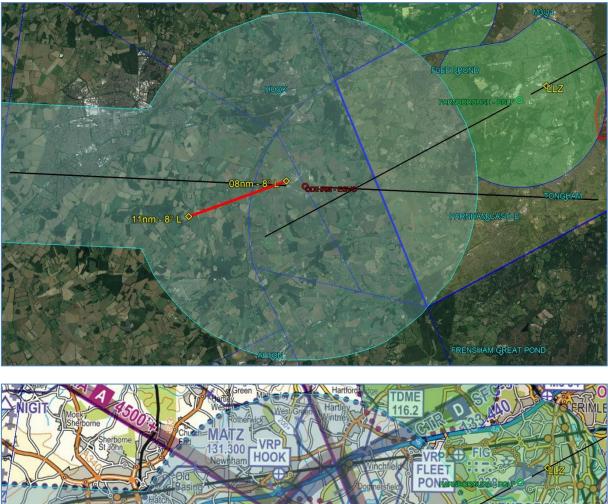
#### RUNWAY 06 PROFILE 01 Centreline 12nm to THLD – 3,800ft to 50ft (LF QNH)





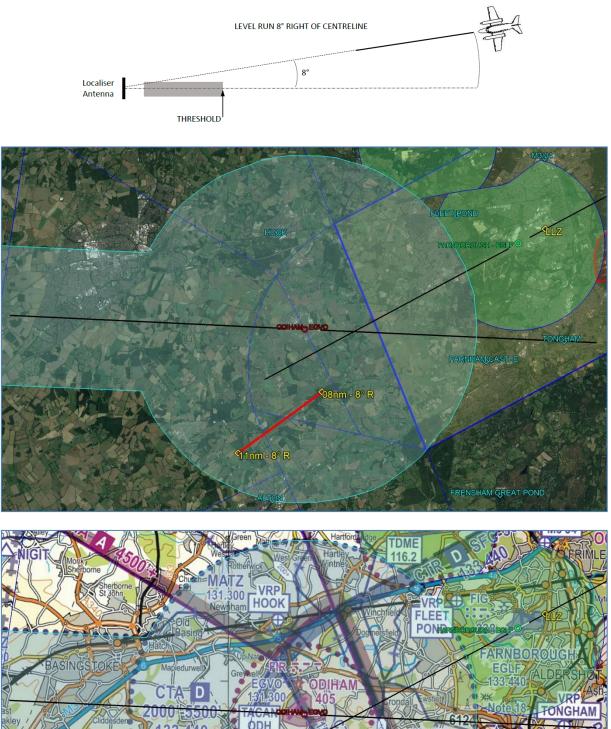






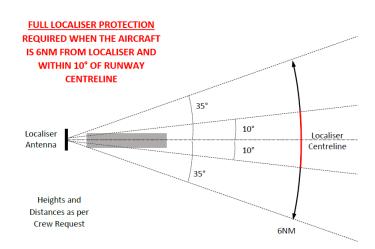


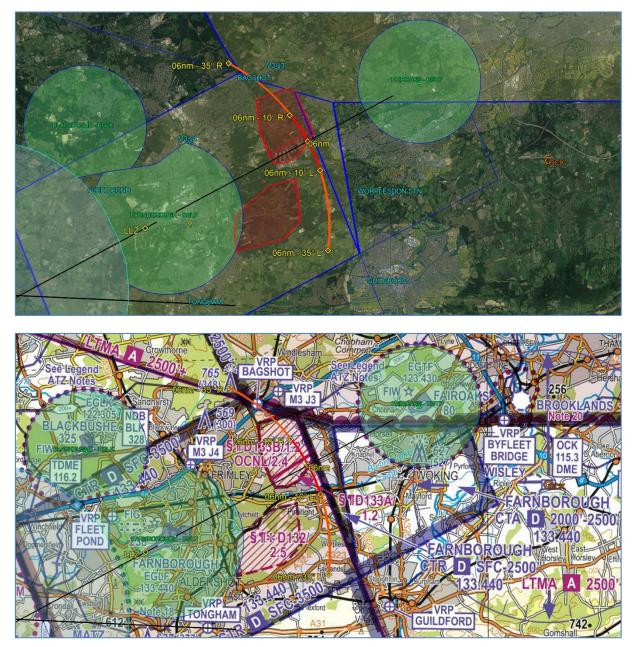
06 PROFILE 16 Right Slice 8° – 11nm to 08nm – 1,500ft (LF QNH)



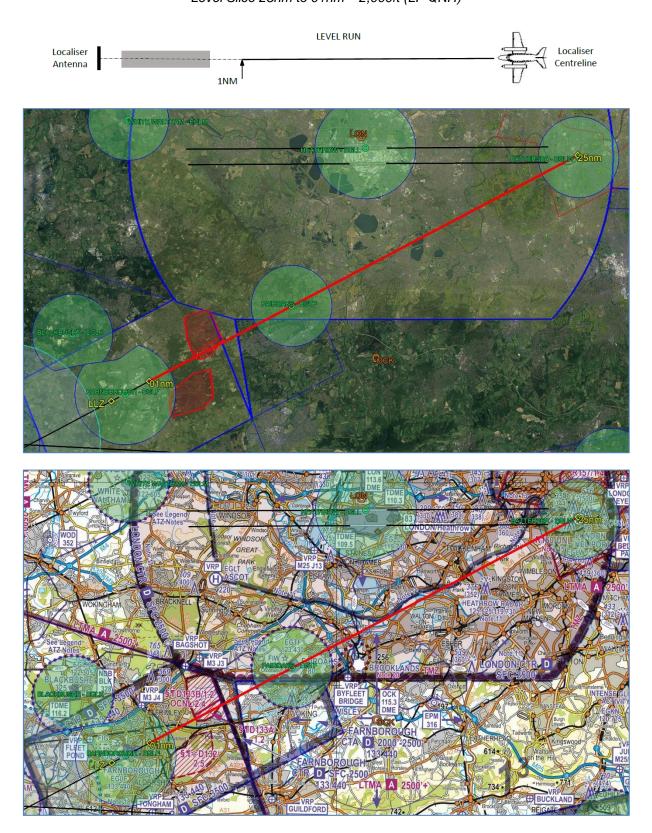


#### RUNWAY 24 PROFILE 04 Localiser Arc ±35°/CL @ 6nm – 1,500ft (LF QNH)

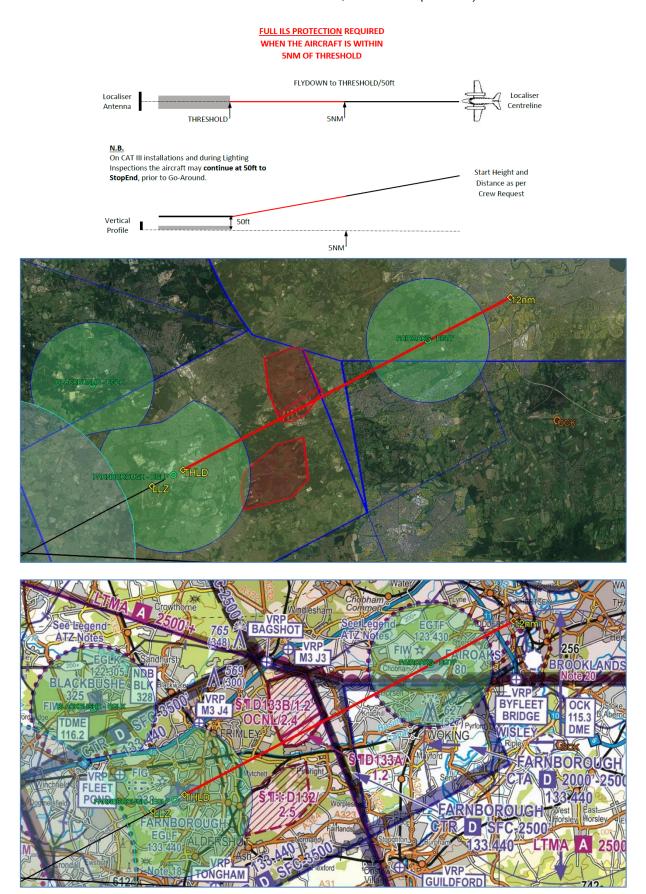




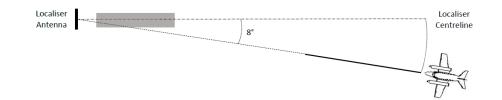
## RUNWAY 24 PROFILE 14 Level Slice 25nm to 01nm – 2,000ft (LF QNH)

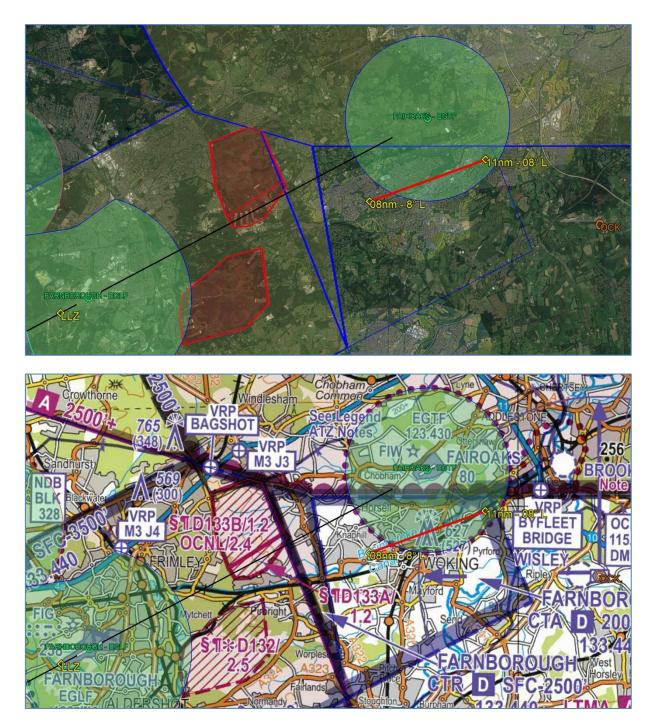


#### RUNWAY 24 PROFILE 01 Centreline 12nm to THLD – 3,800ft to 50ft (LF QNH)

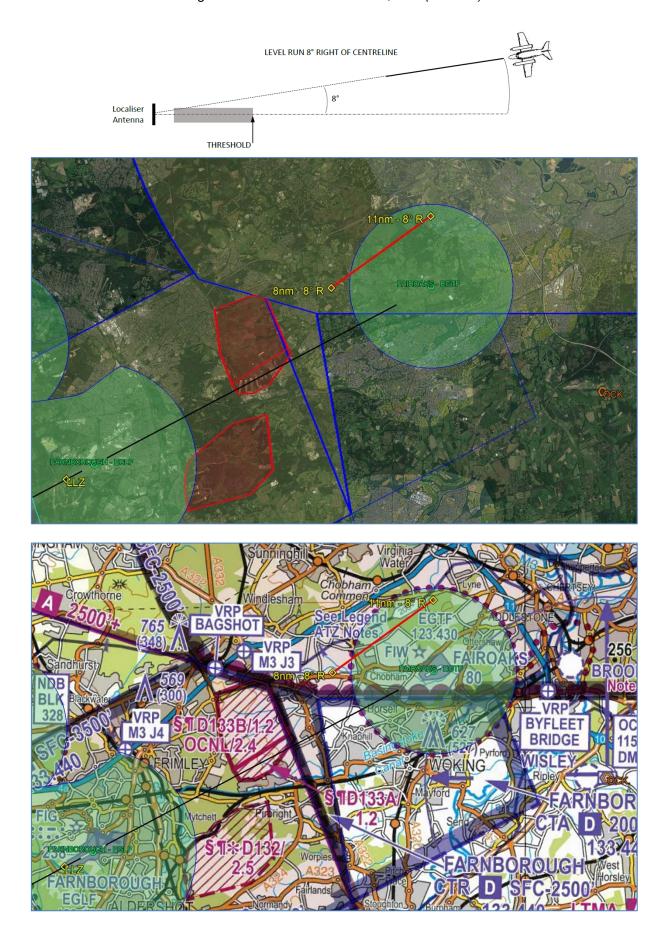


RUNWAY 24 PROFILE 15 Left Slice 8° – 11nm to 08nm – 1,500ft (LF QNH)





#### RUNWAY 24 PROFILE 16 Right Slice 8° – 11nm to 08nm – 1,500ft (LF QNH)



## RUNWAY 24 PROFILE 14 Level Slice 12nm to 01nm – 1,500ft (LF QNH)

