



Warton Aerodrome – Assessment of Instrument Flight Procedures

Addendum to Report 72037-001 Issue 2.1

Date: 03/03/25

Author: Christopher Latus

Revision: Issue 1

Osprey Ref: 72037-002

This document is of UK origin and has been prepared by Osprey Consulting Services Limited (Osprey) and, subject to any existing rights of third parties, Osprey is the owner of the copyright therein. The document is furnished in confidence under existing laws, regulations and agreements covering the release of data. This document contains proprietary information of Osprey and the contents or any part thereof shall not be copied or disclosed to any third party without Osprey's prior written consent.

© Osprey Consulting Services Limited 2025
Harston Mill, Royston Rd, Harston, Cambridge, CB22 7GG
01172 422533 / enquiries@ospreycl.co.uk
Registered in England and Wales under No: 06034579



Document Details

Reference	Description
Document Title	Warton Aerodrome – Assessment of Instrument Flight Procedures
	Addendum to Report 72037-001 Issue 2.1
Document Ref	72037-002
Issue	Issue 1
Date	03/03/25
Client Name	GA Pet Food Partners Limited
Classification	Commercial in Confidence

Issue	Amendment	Date
Issue 1	Initial Issue Addendum to Report 72037-001 Issue 2.1	03/03/25

Approval Level	Authority	Name
APD	Osprey CSL	Christopher Latus
IAPD	Osprey CSL	Sam Shuttlewood
Design Authority	Osprey CSL	Mark Wakeman

Executive Summary

In 2024, Osprey CSL were commissioned by GA Pet Food Partners Limited to assess a proposed Wind Turbine located approximately 12 kilometres (km) east of Southport and approximately 9 km south of the Warton Aerodrome Reference Point (ARP). The findings of this assessment were documented in report 72037-001 Issue 2.1 which concluded that the Wind Turbine, previously assessed with an elevation of 206m Above Mean Sea Level (AMSL), would impact the Visual Circling procedure at Warton Aerodrome and that the Wind Turbine would be restricted to a maximum elevation of 200.04m AMSL.

Following the delivery of report 72037-001 Issue 2.1, the client has confirmed that the revised Wind Turbine elevation is 184.3m AMSL to mitigate the impact to the Visual Circling. The elevation of 184.3m AMSL is the sum of the ground elevation, confirmed to be 4.5m AMSL by the client¹, and the Wind Turbine height of 179.8m², the latter of these is shown in Figure 2.

This report is an Addendum to report 72037-001 Issue 2.1 and acknowledges the developers revised Wind Turbine elevation of 184.3m AMSL; therefore, it is accepted that there is no impact to the Warton Instrument Flight Procedures (IFPs).

NOTE: Osprey has noticed the previously provided Easting and Northing of E346093 N419436 has changed to E346225 N419368³, this equates to a lateral difference of 148.48m, see Figure 1; however, this is not considered to cause any impact to the Warton IFPs and previous assessment.

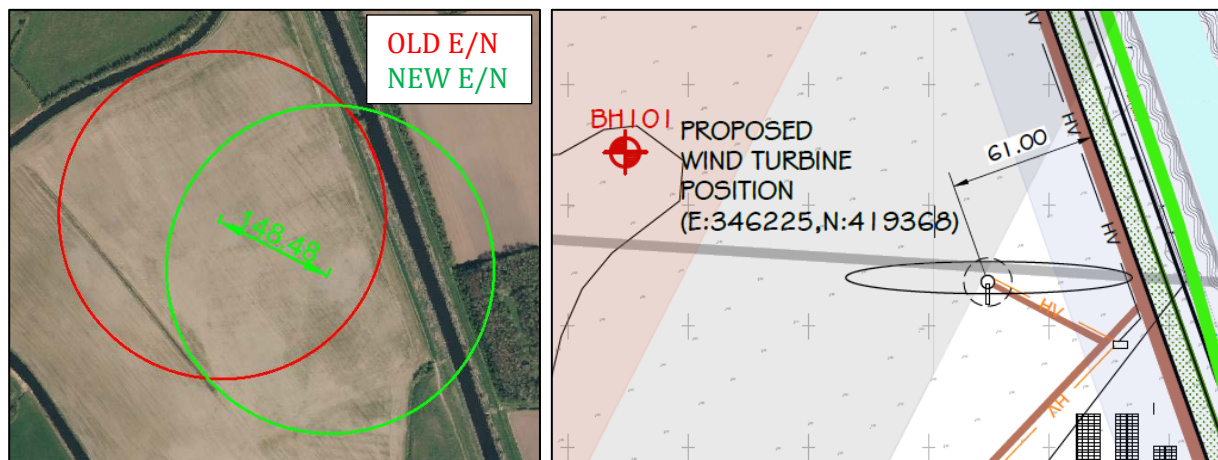


Figure 1 – Provided Turbine Easting / Northing

¹ By email on the 28/08/2024 07:15am.

² By email on the 21/01/2025 09:44am (111m Tubular E-138 EP3 E3-ST-111-FB-C-01_D03024558_2.0_Layout drawing_steeltower.pdf)

³ Shown in the provided PDF document 2022-143-SL03D - Proposed Full Site Layout received by email 21/01/2025 09:44am

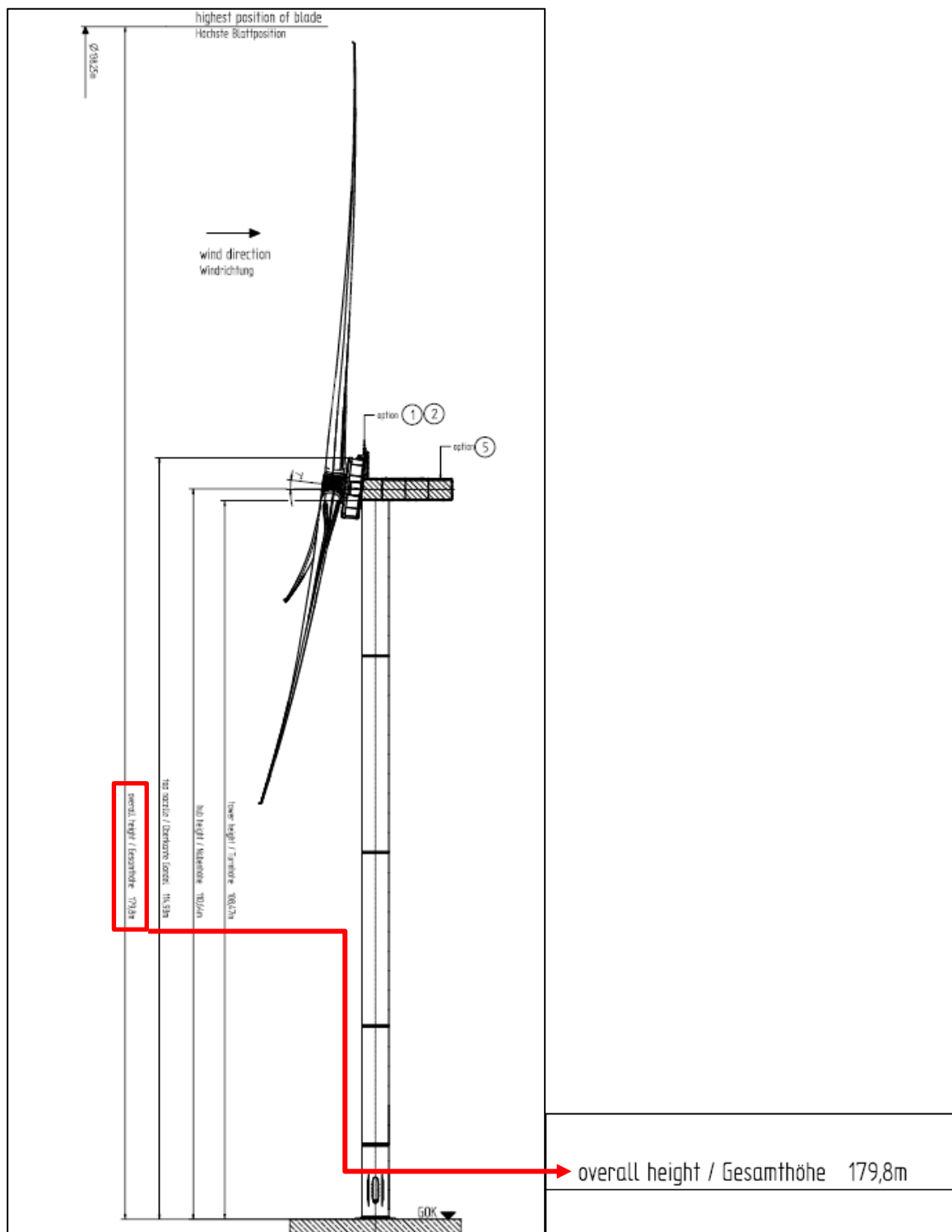


Figure 2 – Provided Turbine Height (111m Tubular E-138 EP3 E3-ST-111-FB-C-01_D03024558_2.0_Layout drawing_steeltower.pdf)

Table of Contents

1	Introduction	6
1.1	Background	6
1.2	Scope of the Assessment.....	6
1.3	Data Provided by Client.....	6
1.4	Site Location & Elevation.....	6
2	Assessment	8
2.1	Report 72037-001 Issue 2.1 Findings.....	8
2.2	Visual Circling Assessment Update	9
3	Summary.....	10
3.1	Assessment Update.....	10

Table of Figures

Figure 1 – Provided Turbine Easting / Northing	3
Figure 2 – Provided Turbine Height (<i>111m Tubular E-138 EP3 E3-ST-111-FB-C-01_D03024558_2.0_Layout drawing_steeltower.pdf</i>)	4
Figure 3 – Provided Turbine Easting / Northing	7

1 Introduction

1.1 Background

In 2024, Osprey CSL were commissioned by GA Pet Food Partners Limited to assess a proposed Wind Turbine located approximately 12 kilometres (km) east of Southport and approximately 9 km south of the Warton Aerodrome Reference Point (ARP). The findings of this assessment were documented in report 72037-001 Issue 2.1 which concluded that the Wind Turbine, previously assessed with an elevation of 206m Above Mean Sea Level (AMSL), would impact the Visual Circling procedure at Warton Aerodrome and that the Wind Turbine would be restricted to a maximum elevation of 200.04m AMSL.

Following the delivery of report 72037-001 Issue 2.1, the client has confirmed that the revised Wind Turbine elevation is 184.3m AMSL to mitigate the impact to the Visual Circling. Consequently, the client requires an addendum report which concludes the revised turbine parameters successfully mitigate any prior impact.

1.2 Scope of the Assessment

This assessment is an addendum to report 72037-001 Issue 2.1 and provides an update to the previous results based on the Warton IFPs (AIRAC Cycle 0724).

1.3 Data Provided by Client

- 2022-143-SL03D - Proposed Full Site Layout.
- 111m Tubular E-138 EP3 E3-ST-111-FB-C-01_D03024558_2.0_Layout drawing_steeltower.

1.4 Site Location & Elevation

The location of the site has since been revised to what was assessed in report 72037-001 Issue 2.1, as shown in Table 1 and Figure 3.

Obstacle ID	OLD Easting / Northing	NEW Easting / Northing	Change of Position	OLD Total Wind Turbine Elevation AMSL (m)	NEW Total Wind Turbine Elevation AMSL (m)	Radius Used (m)
GA Pet Food Wind Turbine	Easting 346093 Northing 419436	Easting 346225 Northing 419368	Distance 148.48m Azimuth 116.60°T	206	184.3	200

Table 1 – OLD & NEW Parameters used for assessment

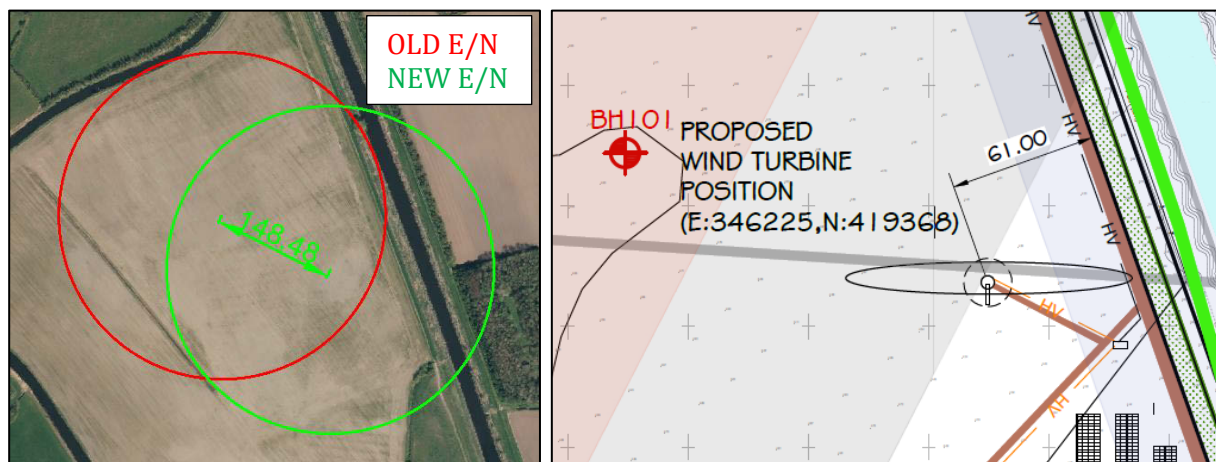


Figure 3 – Provided Turbine Easting / Northing

All Figures shown in this report that contain an Aerial Map Background, are from Autodesk AutoCAD 2019 embedded Online Maps Data – unless specified otherwise.

© 2025 Microsoft Corporation

© 2025 Maxar

© CNES (2025) Distribution Airbus DS

© 2025 Earthstar Geographics SIO

2 Assessment

2.1 Report 72037-001 Issue 2.1 Findings

Procedure	Procedure affected by 206m AMSL Turbine (Yes/No)	Restriction (m) AMSL
ATCSMAC (21 MAR 24).	No	N/A
SRA RWY 07 0.5NM (21 MAR 24).	No	N/A
SRA RWY 07 2NM (21 MAR 24).	No	N/A
SRA RWY 25 0.5NM (21 MAR 24).	No	N/A
SRA RWY 25 2NM (21 MAR 24).	No	N/A
NDB to ILS/DME RWY 25 (21 MAR 24).	No	N/A
TAC to ILS/DME RWY 25 (21 MAR 24).	No	N/A
HI-TAC to ILS/DME RWY 25 (21 MAR 24).	No	N/A
DIRECT ARRIVAL POL to ILS/DME RWY 25 (18 APR 24).	No	N/A
NDB/DME RWY 07 (21 MAR 24).	No	N/A
NDB RWY 07 (21 MAR 24).	No	N/A
DIRECT ARRIVAL WAL - NDB/DME RWY 07 (21 MAR 24).	No	N/A
TAC RWY 07 (21 MAR 24).	No	N/A
TAC RWY 25 (21 MAR 24).	No	N/A
HI-TAC RWY 07 (21 MAR 24).	No	N/A

HI-TAC RWY 25 (21 MAR 24).	No	N/A
Visual Circling	Yes	CAT D - 200.04m CAT E - 200.52m
Holding	No	N/A
Visual Segment Surface	No	N/A
Minimum Sector Altitude	No	N/A

Table 2 – 2.1 Report 72037-001 Issue 2.1 Findings Summary

2.2 Visual Circling Assessment Update

The updated turbine location remains within the CAT D & E protection area for the Visual Circling.

The revised Obstacle Clearance Altitude (OCA) is:

- CAT D - $184.3\text{m} + 120\text{m} = 304.3\text{m}$ (999ft). The lowest published OCA for CAT D is 1050ft – **NO IMPACT**.
- CAT E - $184.3\text{m} + 150\text{m} = 334.3\text{m}$ (1097ft). The lowest published OCA for CAT E is 1150ft – **NO IMPACT**.

3 Summary

3.1 Assessment Update

By reducing the turbine elevation to 184.3m AMSL, the client has mitigated any prior impact to the Warton IFPs which was documented in report 72037-001 Issue 2.1.