

June 2023

# London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 5 Environmental Statement and Related Documents  
**5.03 Chapter 16 Noise and Vibration Figures 16.69 - 16.76**

Application Document Ref: TR020001/APP/5.03

APFP Regulation: 5(2)(a)

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

**London Luton Airport Expansion Development Consent Order 202x**

**5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.69 – 16.76**

Regulation number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference:	TR020001
Document Reference:	TR020001/APP/5.03
Author:	Luton Rising

Version	Date	Status of Version
Issue 01	February 2023	Application issue
Revision 01	June 2023	Additional submissions (updated in response to Rule 9 letter)

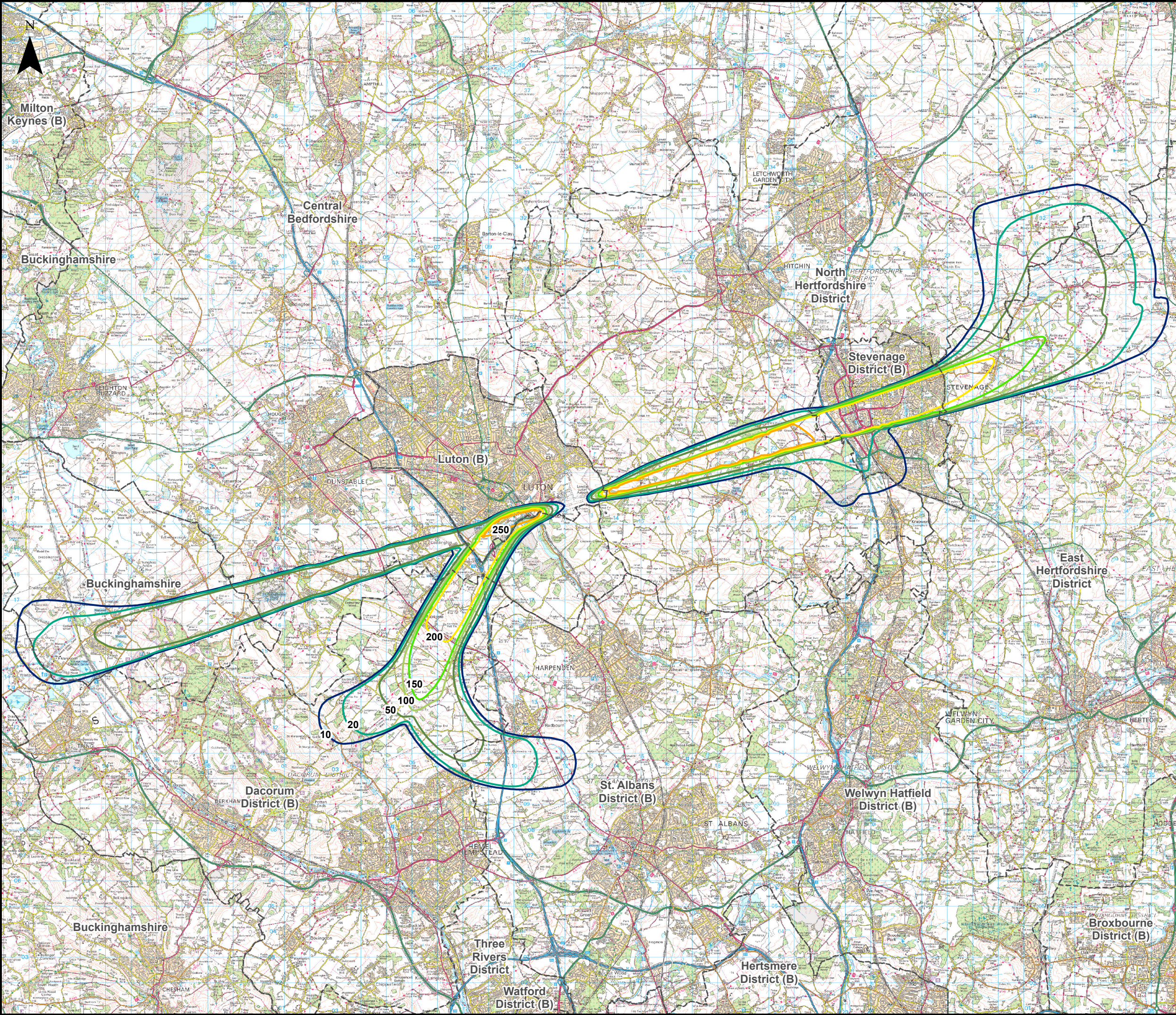


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All structure positions are indicative. The proposed works will be subject to detailed design development. The changes will be within limits of deviation specified in the Development Consent Order.

### Legend

Local Authority Boundaries

Number of overflights per day (07:00 – 23:00) up to 4,000ft (2043 Do-Something)

- 10
- 20
- 50
- 100
- 150
- 200
- 250

Additional submissions (updated in response to Rule 9 letter)	HW	CS	CS	15/06/23	P02
First Issue	MAB	CS	CS	31/10/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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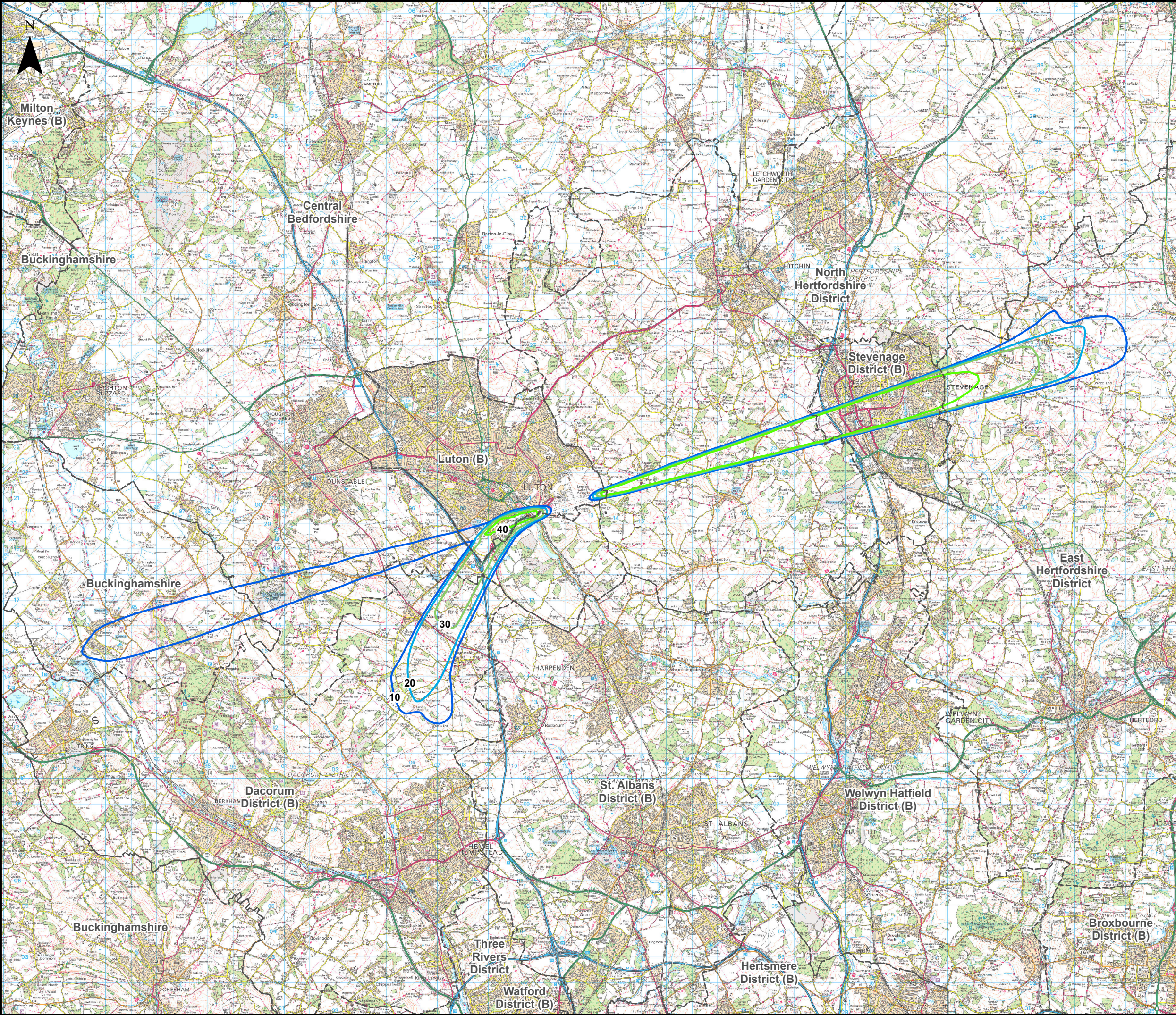
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Figure 16.69  
Extent of 2043 Do-Something Daytime Overflight Contours up to 4,000 feet

Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
HW	CSh	CS	15/06/23	1:140,000	A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Drawing Number LLADCO-3C-AEC-00-00-DR-YE-0069	Revision P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	





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Legend

Local Authority Boundaries

Number of overflights per night (23:00 – 07:00) up to 4,000ft (2043 Do-Something)

- 10
- 20
- 30
- 40

Additional submissions (updated in response to Rule 9 letter)	HW	CS	CS	15/06/23	P02
First Issue	MAB	CS	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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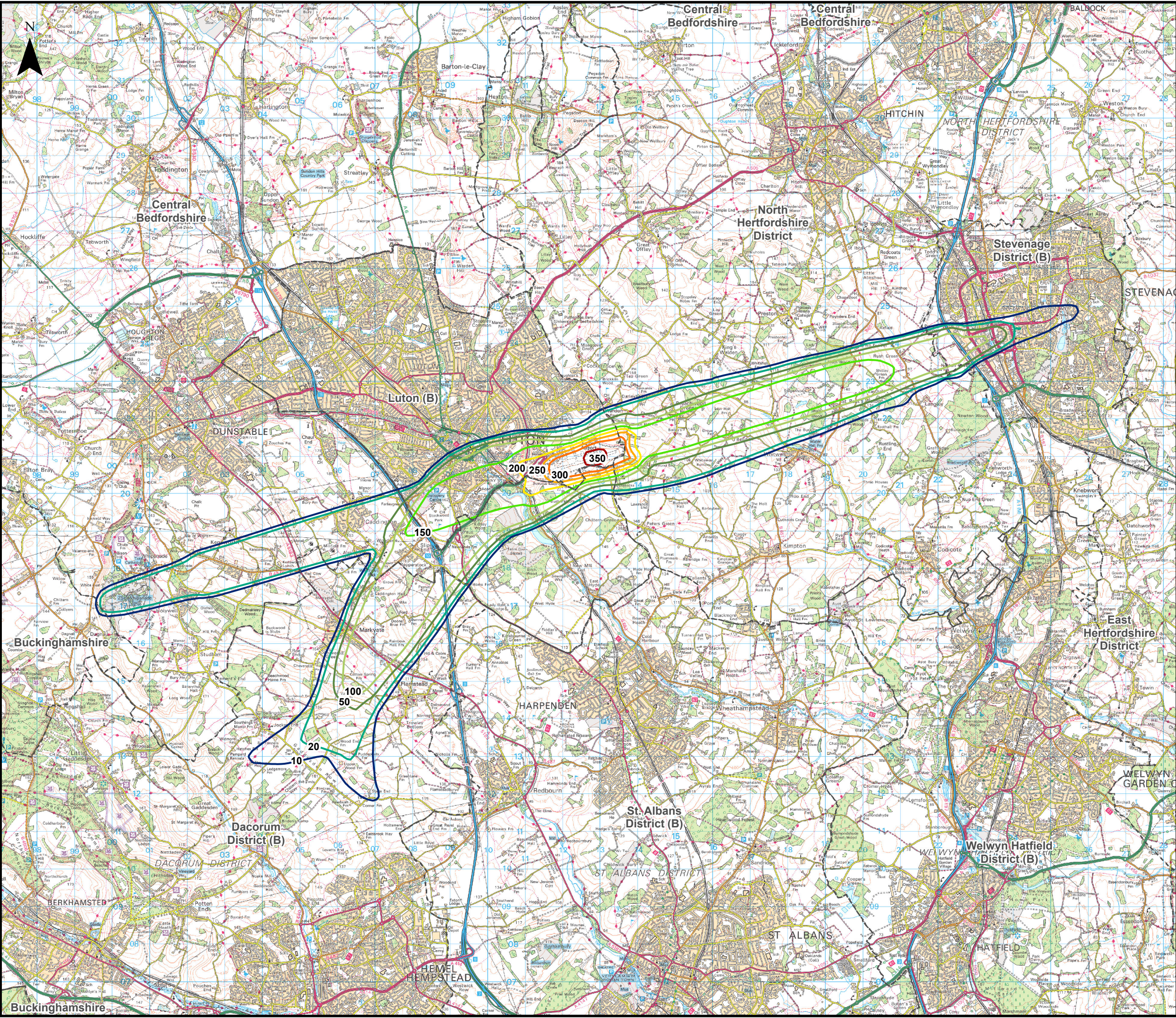
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Figure 16.70  
Extent of 2043 Do-Something Night-time  
Overflight Contours up to 4,000 feet

Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
HW	CSh	CS	15/06/23	1:140,000	A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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### Legend

Local Authority Boundaries

**Noise Contours (2043 Do-Minimum Daytime number of aircraft above 65 Decibels (dB) LASmax (N65))**

- 10
- 20
- 50
- 100
- 150
- 200
- 250
- 300
- 350

Additional submissions (updated in response to Rule 9 letter)	HW	CSh	CS	15/06/23	P02
First Issue	MAB	CSh	CS	31/01/23	P01
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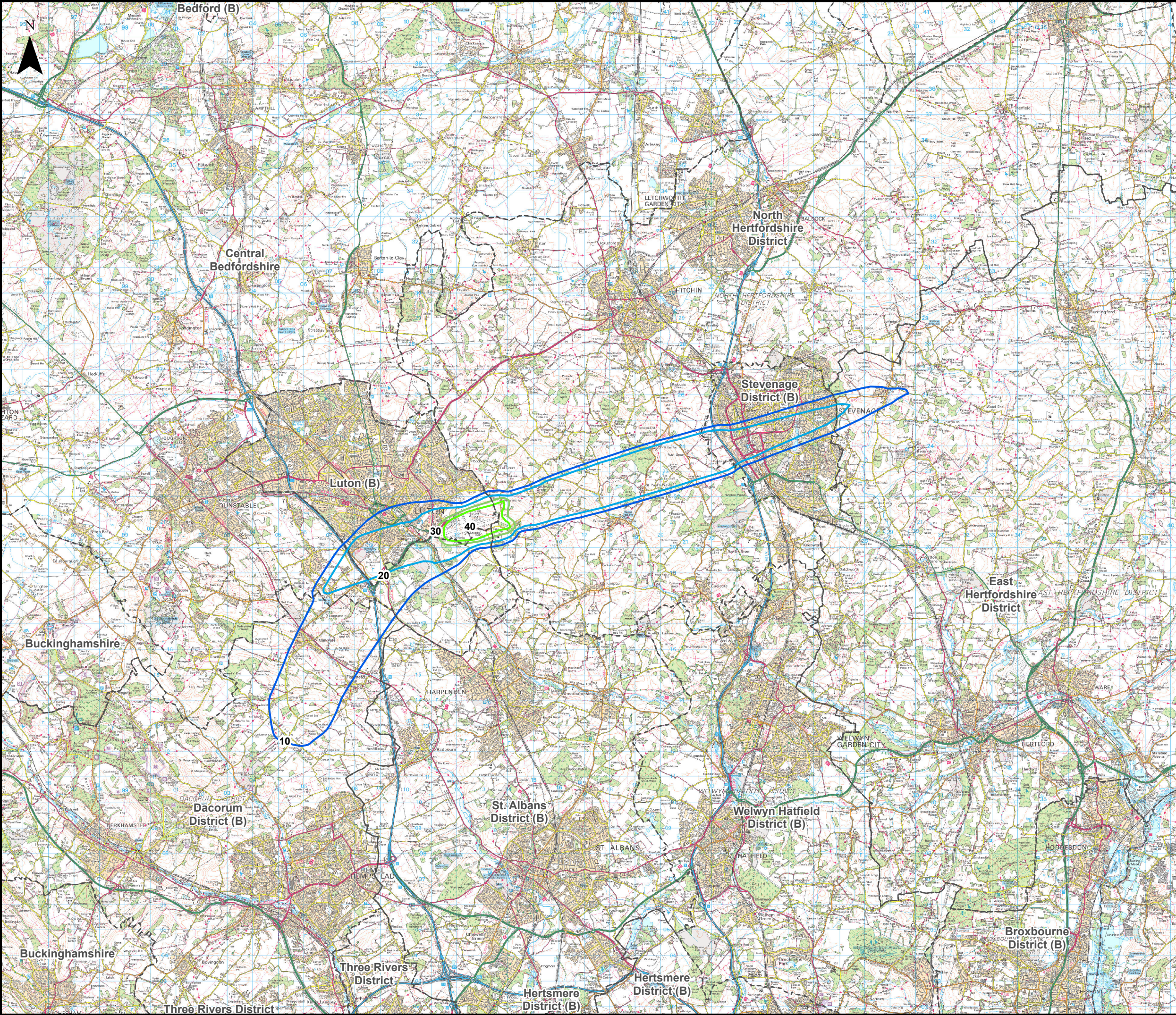
Drawing Title  
Figure 16.71  
Extent of 2043 Do-Minimum Daytime number of aircraft above 65 Decibels (dB) LASmax (N65)  
Noise Contours

Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
HW	CSh	CS	15/06/23	1:95,000	A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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### Legend

Local Authority Boundaries

**Noise Contours (2043 Do-Minimum Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**

10

20

30

40

Additional submissions (updated in response to Rule 9 letter)	HW	CS	CS	15/06/23	P02
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Drawing Title Figure 16.72  
Extent of 2043 Do-Minimum Night-time number of aircraft above 60 Decibels (dB) LASmax (N60)  
Noise Contours

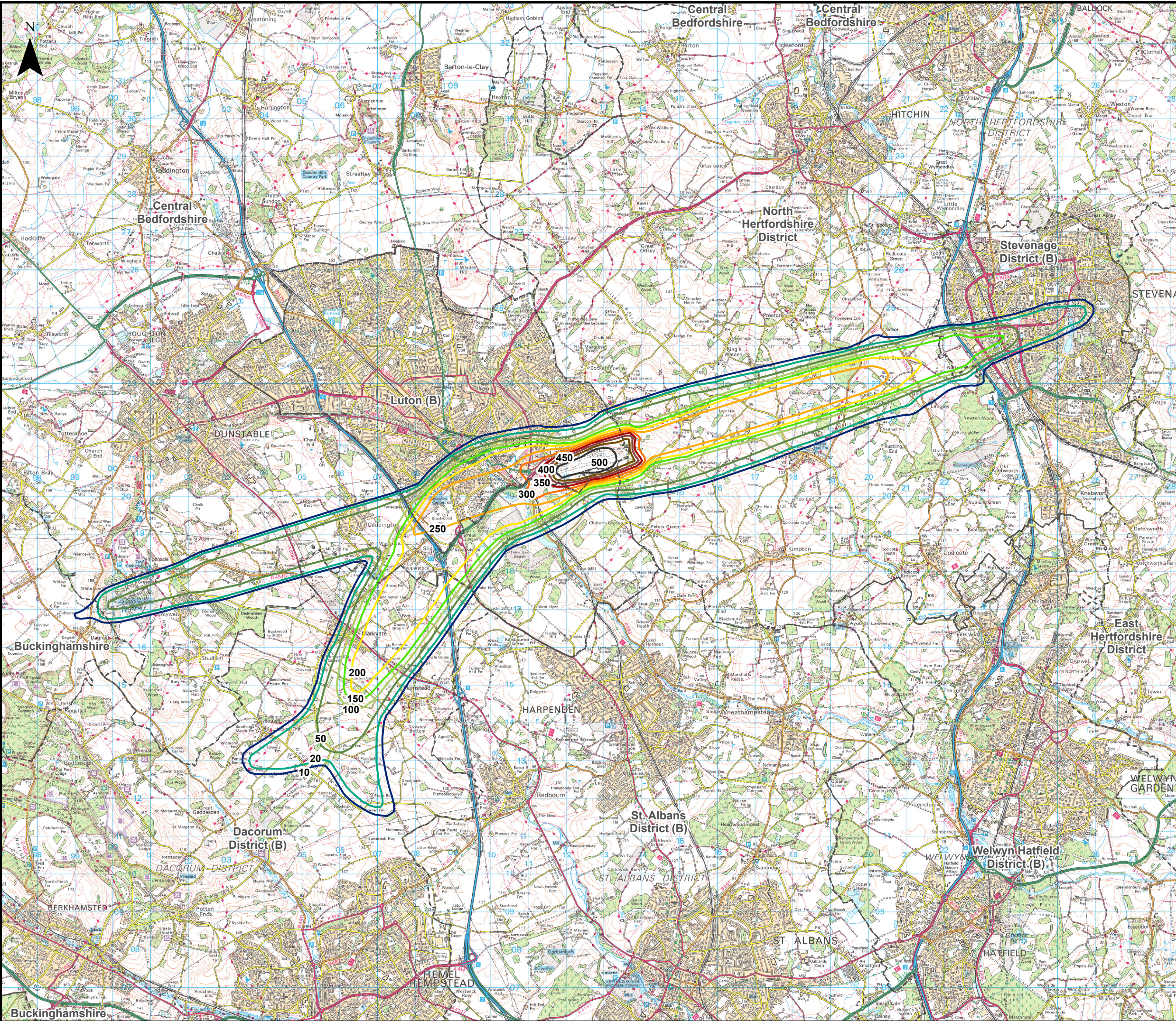
Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
HW	CS	CS	15/06/23	1:140,000	A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Drawing Number LLADCO-3C-AEC-00-00-DR-YE-0072	Revision P02
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### Legend

Local Authority Boundaries

### Noise Contours (2043 Do-Something Daytime number of aircraft above 65 Decibels (dB) LASmax (N65))

- 10
- 20
- 50
- 100
- 150
- 200
- 250
- 300
- 350
- 400
- 450
- 500

Additional submissions (updated in response to Rule 9 letter)	HW	CSH	CS	15/06/23	P02
First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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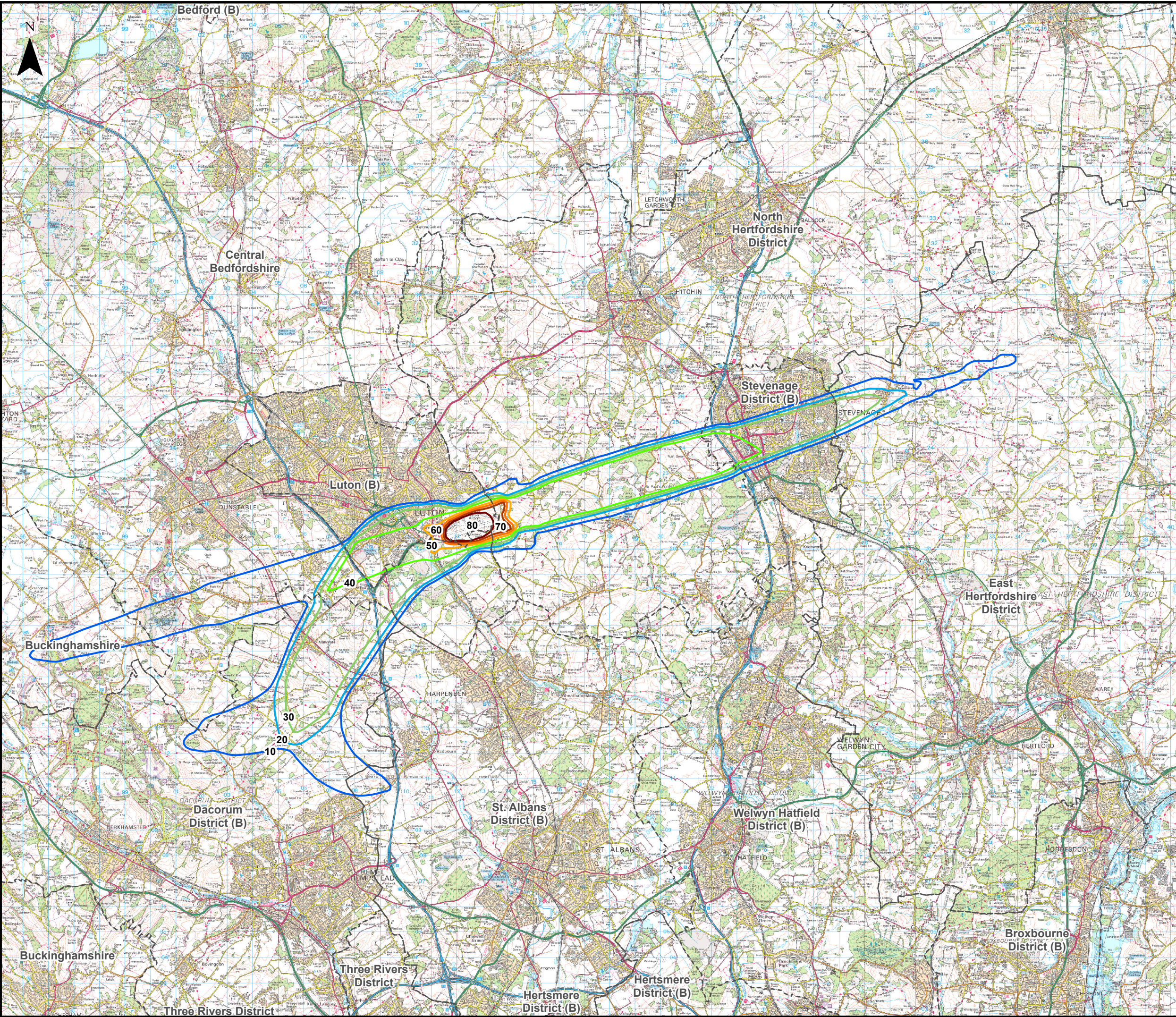
Drawing Title Figure 16.73  
Extent of 2043 Do-something Daytime number of aircraft above 65 Decibels (dB) LASmax (N65) Noise Contours

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)	Suitability			
Drawn	Checked	Approved	Date	Scale	Size
HW	CSH	CS	15/06/23	1:95,000	A3

DCO Application Ref.	APFP Regulation	DCO Document Ref.
TR020001	APFP 5(2)(a)	TR020001/APP/5.03

Drawing Number	Revision
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### Legend

Local Authority Boundaries

**Noise Contours (2043 Do-Something Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**

- 10
- 20
- 30
- 40
- 50
- 60
- 70
- 80

Additional submissions (updated in response to Rule 9 letter)	HW	CSh	CS	15/06/23	P02
First Issue	MAB	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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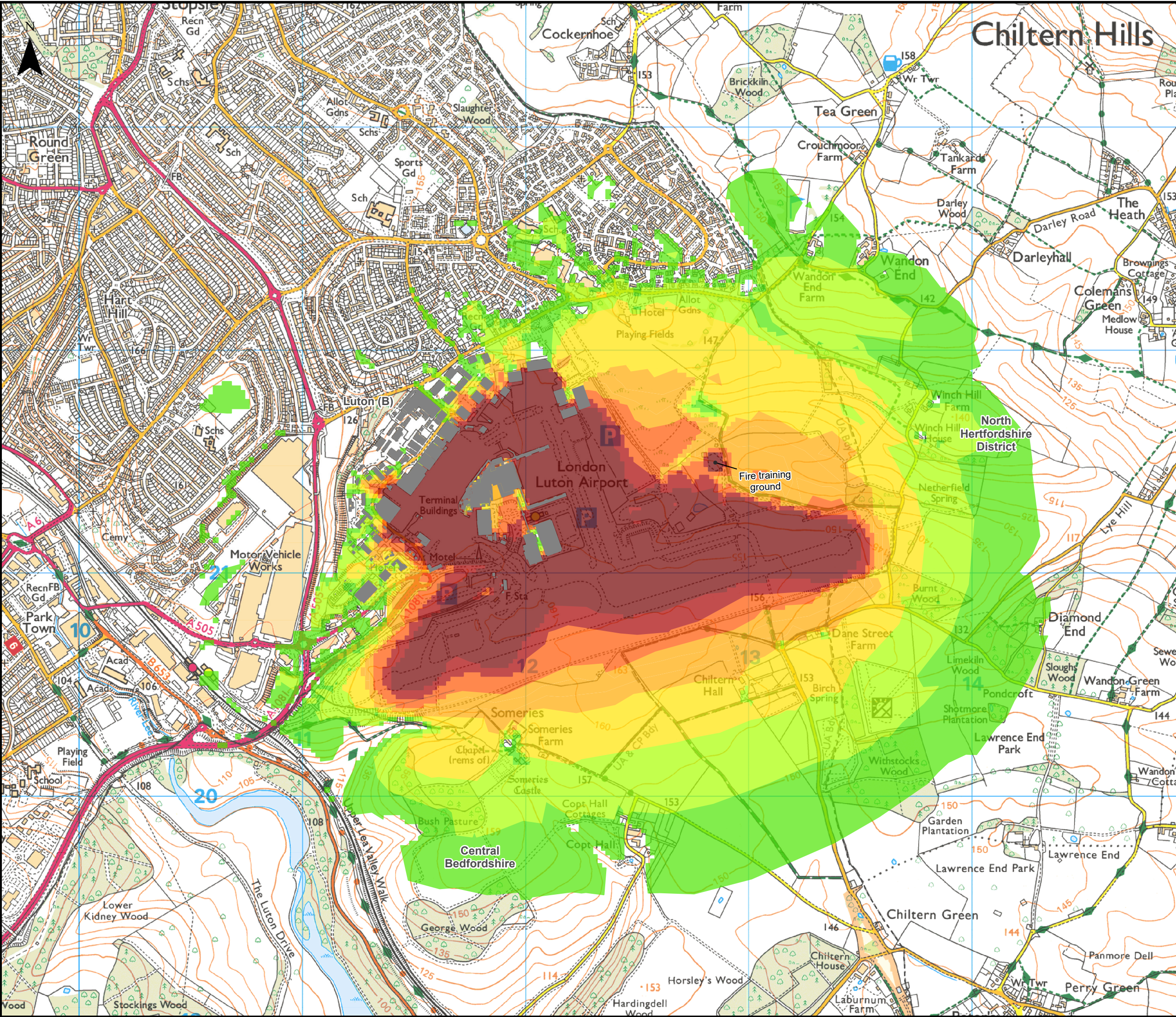
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Extent of 2043 Do-something Night-time number of aircraft above 60 Decibels (dB) LASmax (N60)  
Noise Contours

Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn HW	Checked CSh	Approved CS	Date 15/06/23	Scale 1:140,000	Size A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Drawing Number LLADCO-3C-AEC-00-00-DR-YE-0074	Revision P02
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Legend


- Local Authority Boundaries
- Airport Site Buildings

Ground Noise Contours in Decibels (dB)  
(2043 Do-Minimum Daytime LAeq,16h)

- LOAEL - 53 dB
- 54 dB - 56 dB
- 57 dB - 59 dB
- 60 dB - 62 dB
- SOAEL - 65 dB
- 66 dB - 68 dB
- ≥ UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 51 dB  
Significant Observed Adverse Effect Level (SOAEL) = 63 dB  
Unacceptable Adverse Effect Level (UAEL) = 69 dB

Additional submissions (updated in response to Rule 9 letter)	LP	CSh	CS	22/06/23	P02
First Issue	LP	CSh	CS	31/01/23	P01
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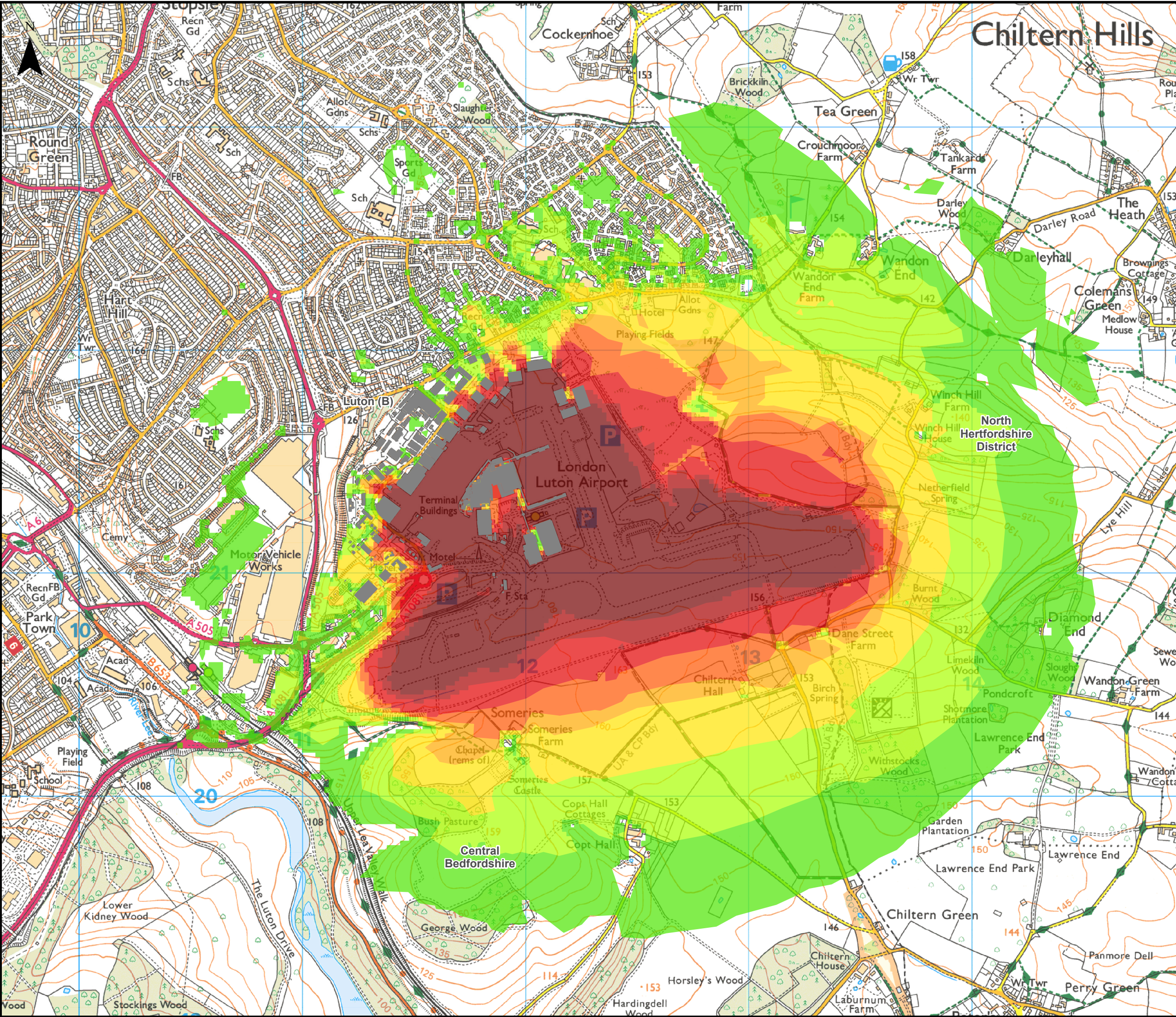
Drawing Title  
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Extent of 2043 Do-Minimum Daytime LAeq,16h  
Ground Noise Contours

Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn	Checked	Approved	Date	Scale	Size
LP	CSh	CS	22/06/23	1:16,000	A3

DCO Application Ref. TR020001	APFP Regulation APFP 5(2)(a)	DCO Document Ref. TR020001/APP/5.03
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Drawing Number LLADCO-3C-AEC-00-00-DR-YE-0075	Revision P02
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Legend


- Local Authority Boundary
- Airport Site Buildings

Ground Noise Contours in Decibels (dB)  
(2043 Do-Minimum Night-time LAeq,8h)

- LOAEL - 47 dB
- 48 dB - 50 dB
- 51 dB - 53 dB
- 54 dB
- SOAEL - 56 dB
- 57 dB - 59 dB
- 60 - 62 dB
- ≥ UAEL

Lowest Observed Adverse Effect Level (LOAEL) = 45 dB  
Significant Observed Adverse Effect Level (SOAEL) = 55 dB  
Unacceptable Adverse Effect Level (UAEL) = 63 dB

Additional submissions (updated in response to Rule 9 letter)	LP	CSh	CS	22/06/23	P02
First Issue	LP	CSh	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.



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Drawing Title  
Figure 16.76  
Extent of 2043 Do-Minimum Night-time LAeq,8h  
Ground Noise Contours

Purpose of issue Additional submissions (updated in response to Rule 9 letter)				Suitability S2	
Drawn LP	Checked CSh	Approved CS	Date 22/06/23	Scale 1:16,000	Size A3
DCO Application Ref. TR020001		APFP Regulation APFP 5(2)(a)		DCO Document Ref. TR020001/APP/5.03	
Drawing Number LLADCO-3C-AEC-00-00-DR-YE-0076					Revision P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number					