

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 16.43a - 16.48

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

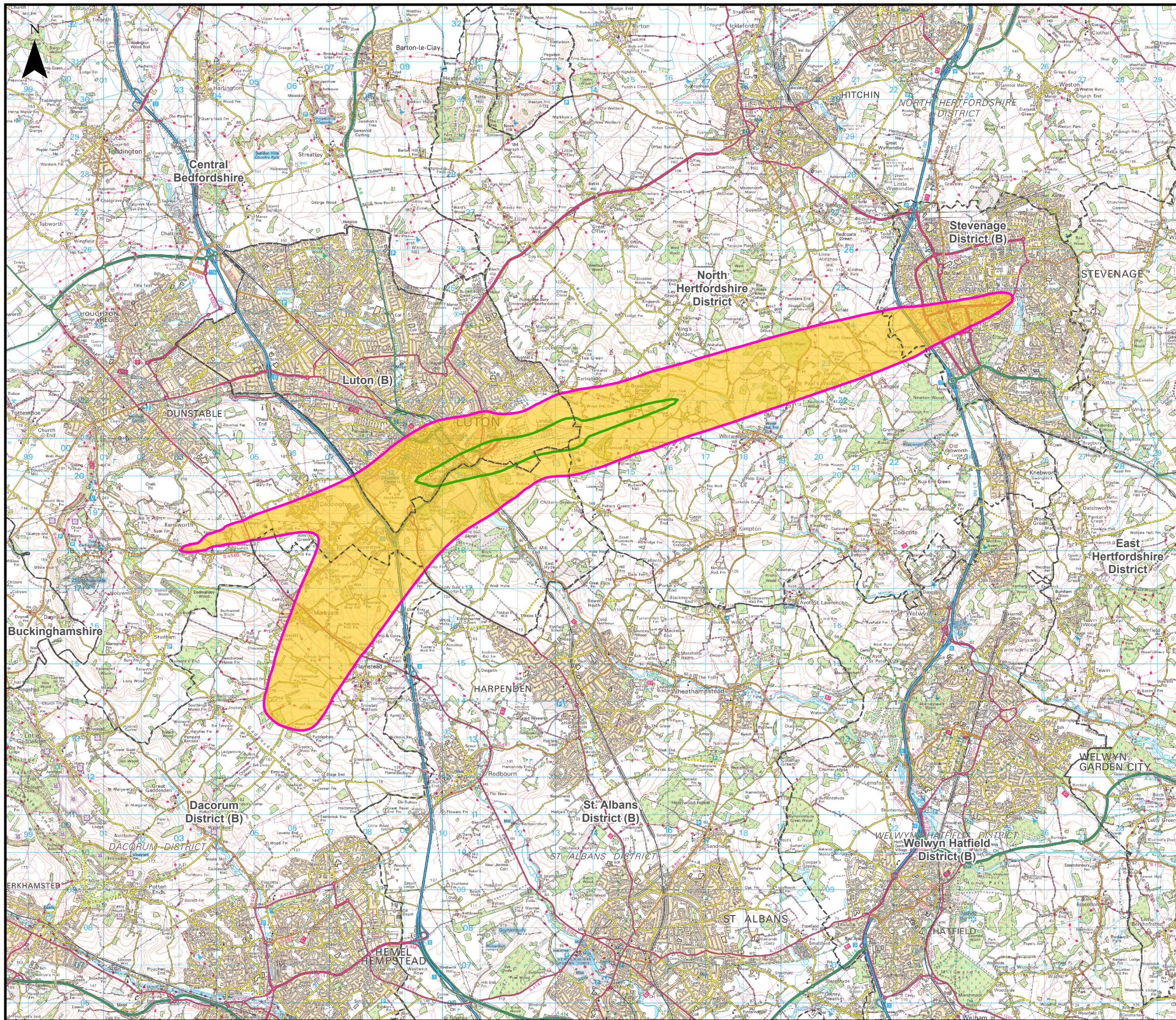
5.03 ENVIRONMENTAL STATEMENT CHAPTER 16 NOISE AND VIBRATION FIGURES 16.43a – 16.48

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

Change in 2039 Do-Something - Do-Minimum Daytime LAeq, 16h Air Noise Contours in Decibels (dB)

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

Air Noise Contours in Decibels (dB) (2039 Do-something Daytime LAeq, 16h)

- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 63dB - Significant Observed Adverse Effect Level (SOAEL)

Additional submissions (updated in response to Rule 9 letter)	LP	CSH	CS	21/06/23	P02
First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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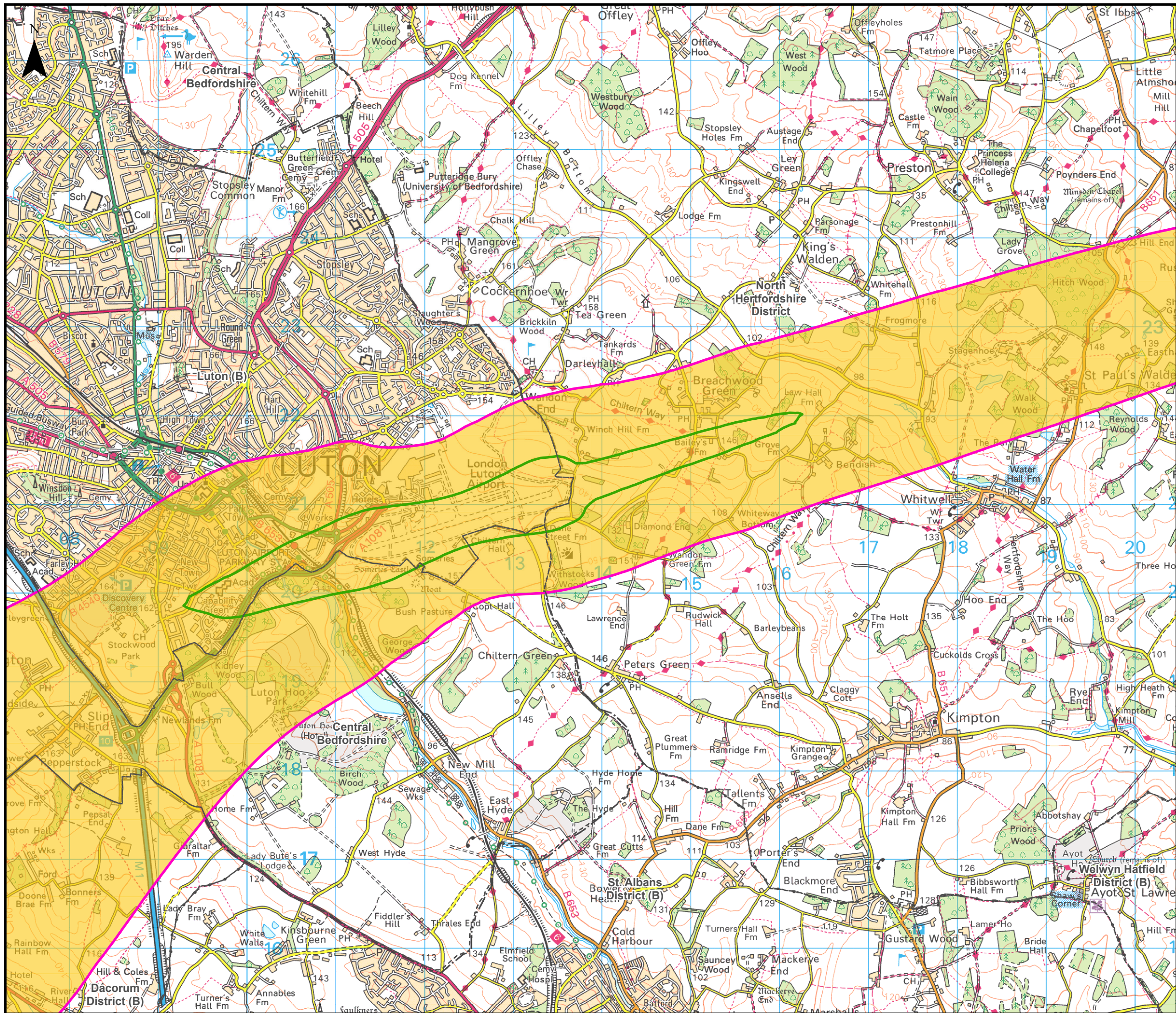
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Drawing Title **Figure 16.43a**
Change in 2039 Do-Something - Do-Minimum Daytime LAeq, 16h Air Noise Contours

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	21/06/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0043	P02
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Legend

Local Authority Boundaries

Change in 2039 Do-Something - Do-Minimum Daytime LAeq, 16h Air Noise Contours in Decibels (dB)

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

Air Noise Contours in Decibels (dB) (2039 Do-something Daytime LAeq, 16h)

- 51dB - Lowest Observed Adverse Effect Level (LOAEL)
- 63dB - Significant Observed Adverse Effect Level (SOAEL)

Additional submissions (updated in response to Rule 9 letter)	LP	CSH	CS	21/06/23	P02
First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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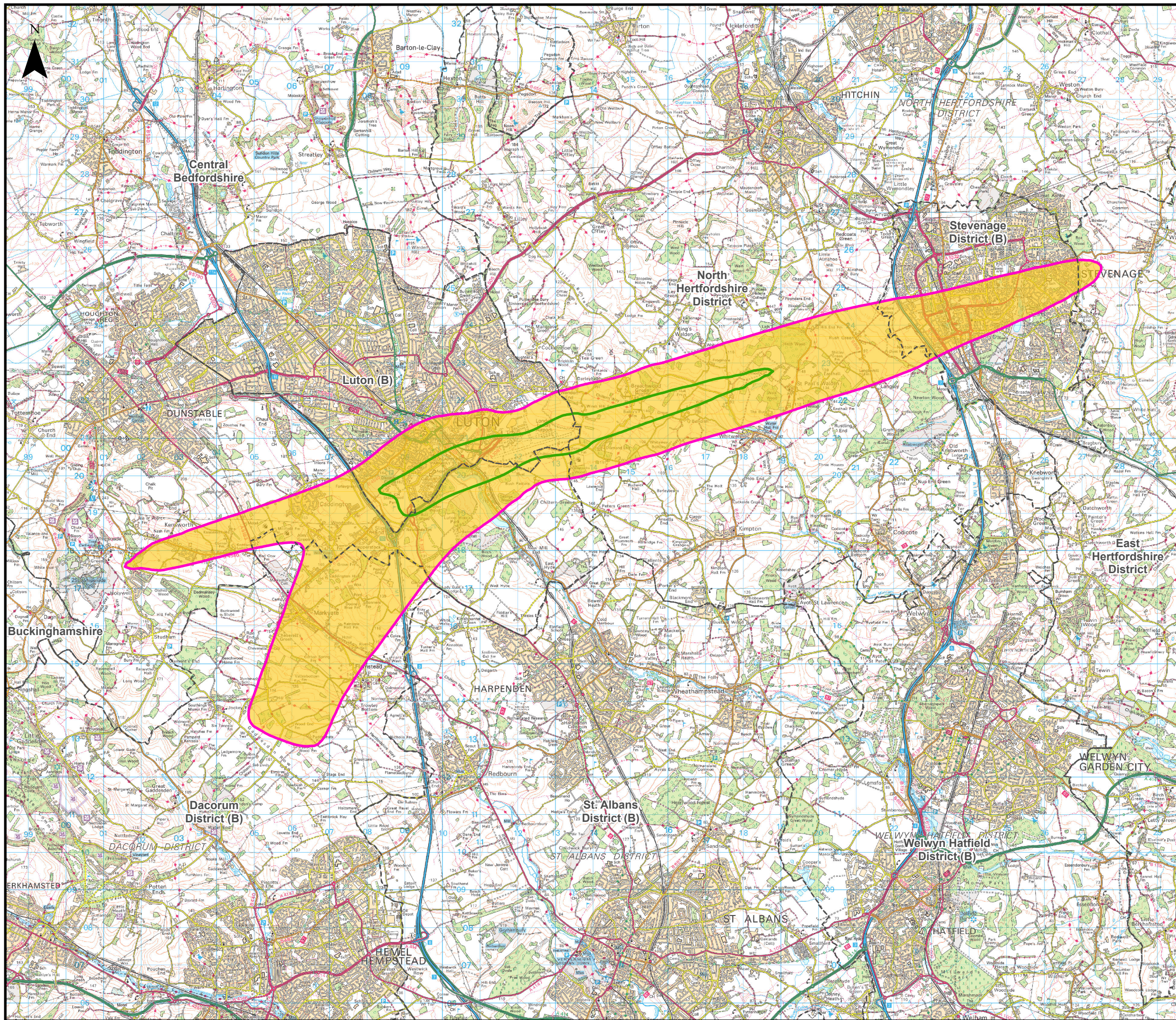
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Drawing Title: Figure 16.43b
 Change in 2039 Do-Something - Do-Minimum Daytime LAeq, 16h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)				Suitability
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	21/06/23	1:40,000	A3

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

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LLADCO-3C-AEC-00-00-DR-YE-0099	P02
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Legend

Local Authority Boundaries

Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours in Decibels (dB)

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

Air Noise Contours in Decibels (dB) (2039 Do-something Night-time LAeq,8h)

- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55dB - Significant Observed Adverse Effect Level (SOAEL)

Additional submissions (updated in response to Rule 9 letter)	LP	CSH	CS	21/06/23	P02
First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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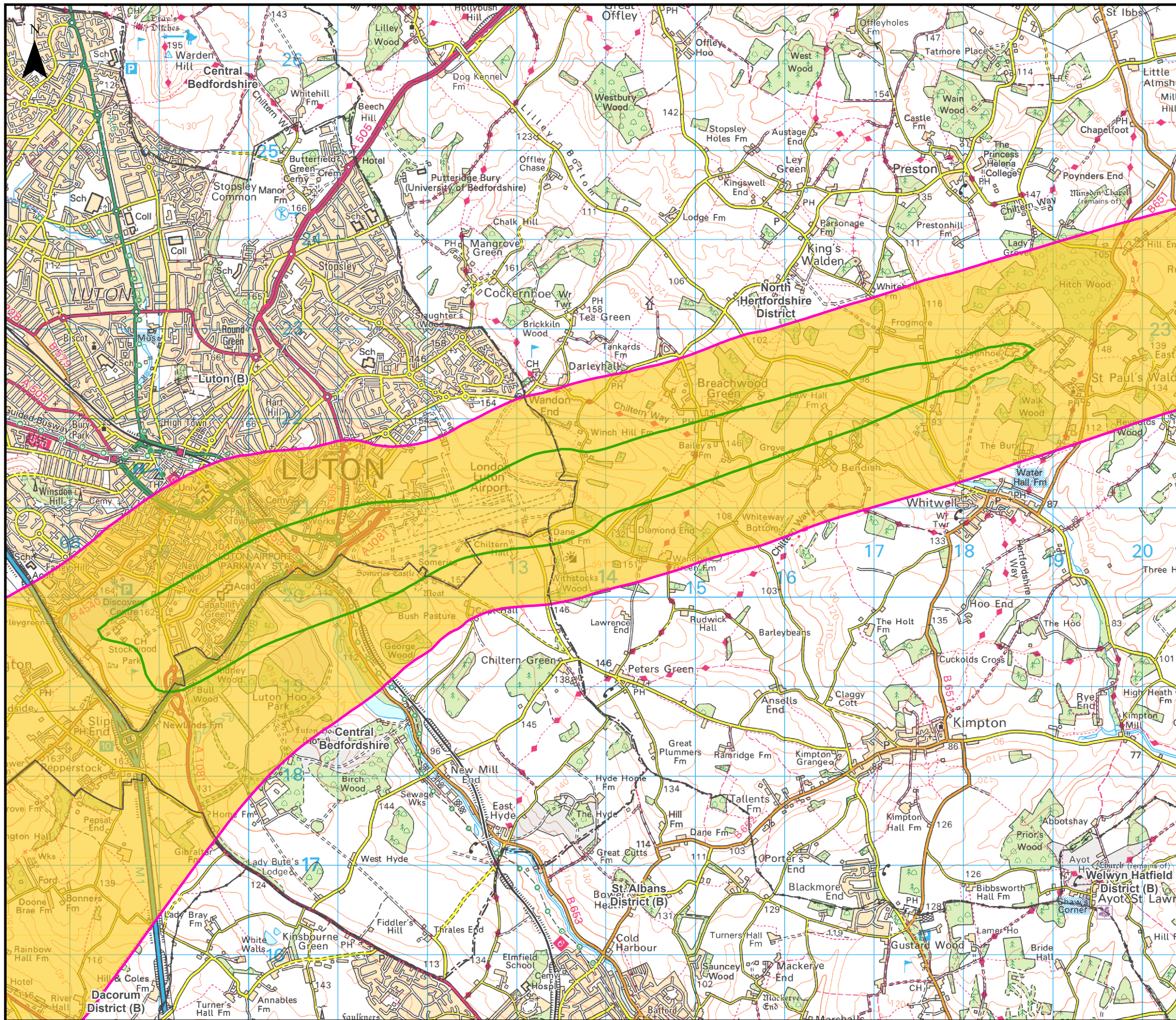
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Drawing Title
 Figure 16.44a
 Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)				Suitability
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	21/06/23	1:95,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0044	P02
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Legend

- Local Authority Boundaries

Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours in Decibels (dB)

- 0.1 to 0.9 dB
- 1.0 to 1.9 dB
- 2.0 to 2.9 dB
- 3.0 dB or more

Air Noise Contours in Decibels (dB) (2039 Do-something Night-time LAeq,8h)

- 45dB - Lowest Observed Adverse Effect Level (LOAEL)
- 55dB - Significant Observed Adverse Effect Level (SOAEL)

Additional submissions (updated in response to Rule 9 letter)	LP	CSH	CS	21/06/23	P02
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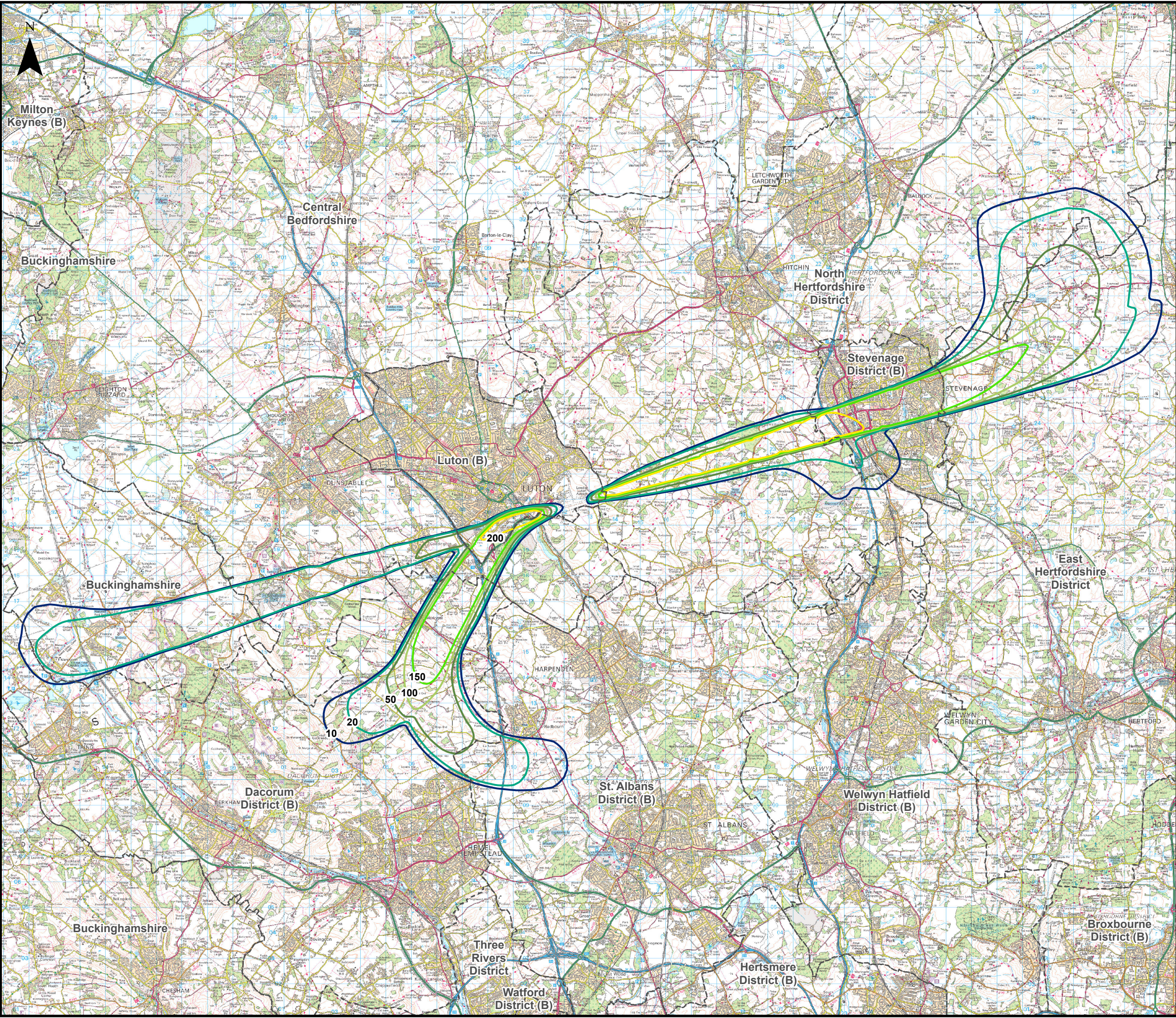
Drawing Title: Figure 16.44b
 Change in 2039 Do-Something - Do-Minimum Night-time LAeq,8h Air Noise Contours (Significant Observed Adverse Effect Level (SOAEL) Area)

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)				Suitability
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	21/06/23	1:40,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0100	P02

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Legend

Local Authority Boundaries

Number of overflights per day (07:00 – 23:00) up to 4,000ft (2039 Do-Something)

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

Additional submissions (updated in response to Rule 9 letter)	LP	CSH	CS	20/06/23	P02
First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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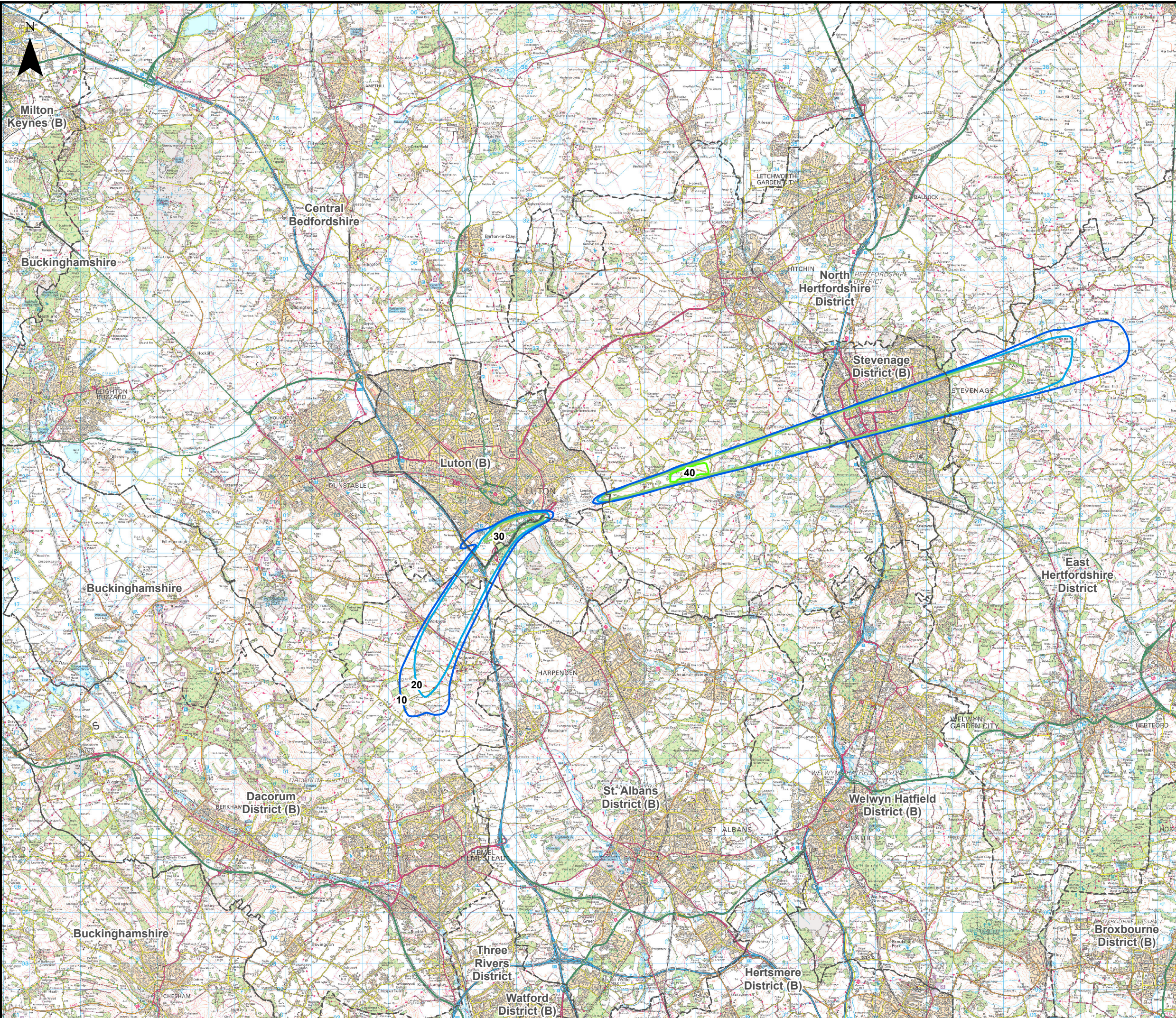
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Drawing Title: Figure 16.45
 Extent of 2039 Do-Something Daytime Overflight Contours up to 4,000 feet

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	20/06/23	1:140,000	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

Number of overflights per night (23:00 – 07:00) up to 4,000ft (2039 Do-Something)

- █ 10
- █ 20
- █ 30
- █ 40

Additional submissions (updated in response to Rule 9 letter)	LP	CSh	CS	20/06/23	P02
First Issue	MAB	CSh	CS	31/01/23	P01
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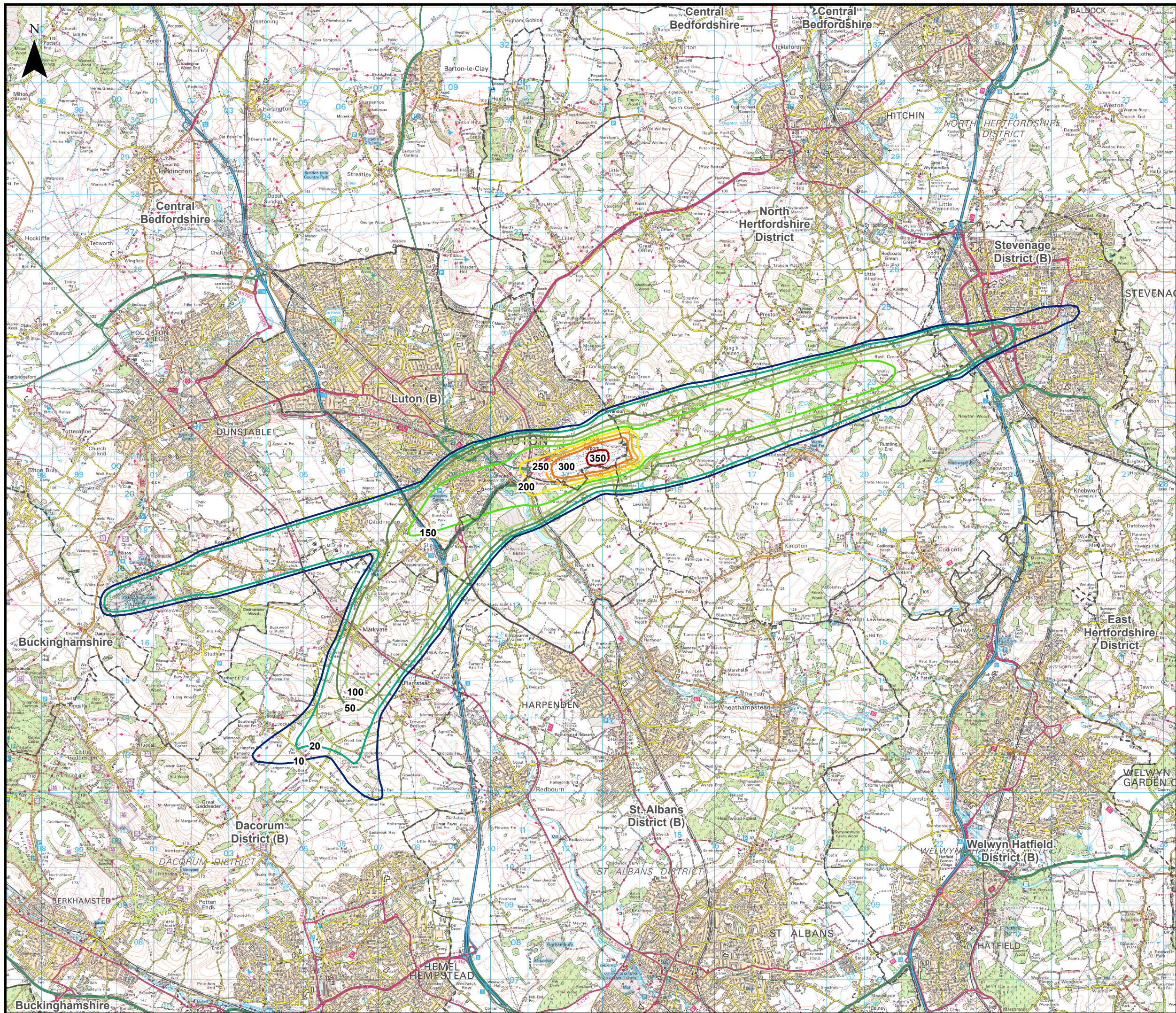
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Development Consent Order**

Drawing Title
Figure 16.46
Extent of 2039 Do-Something Night-time
Overflight Contours up to 4,000 feet

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	20/06/23	1:140,000	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 (2039 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)	LP	CSH	CS	20/06/23	P02
First Issue	MAB	CSH	CS	31/01/23	P01
Revision History	Drawn	Checked	Approved	Date	Rev.

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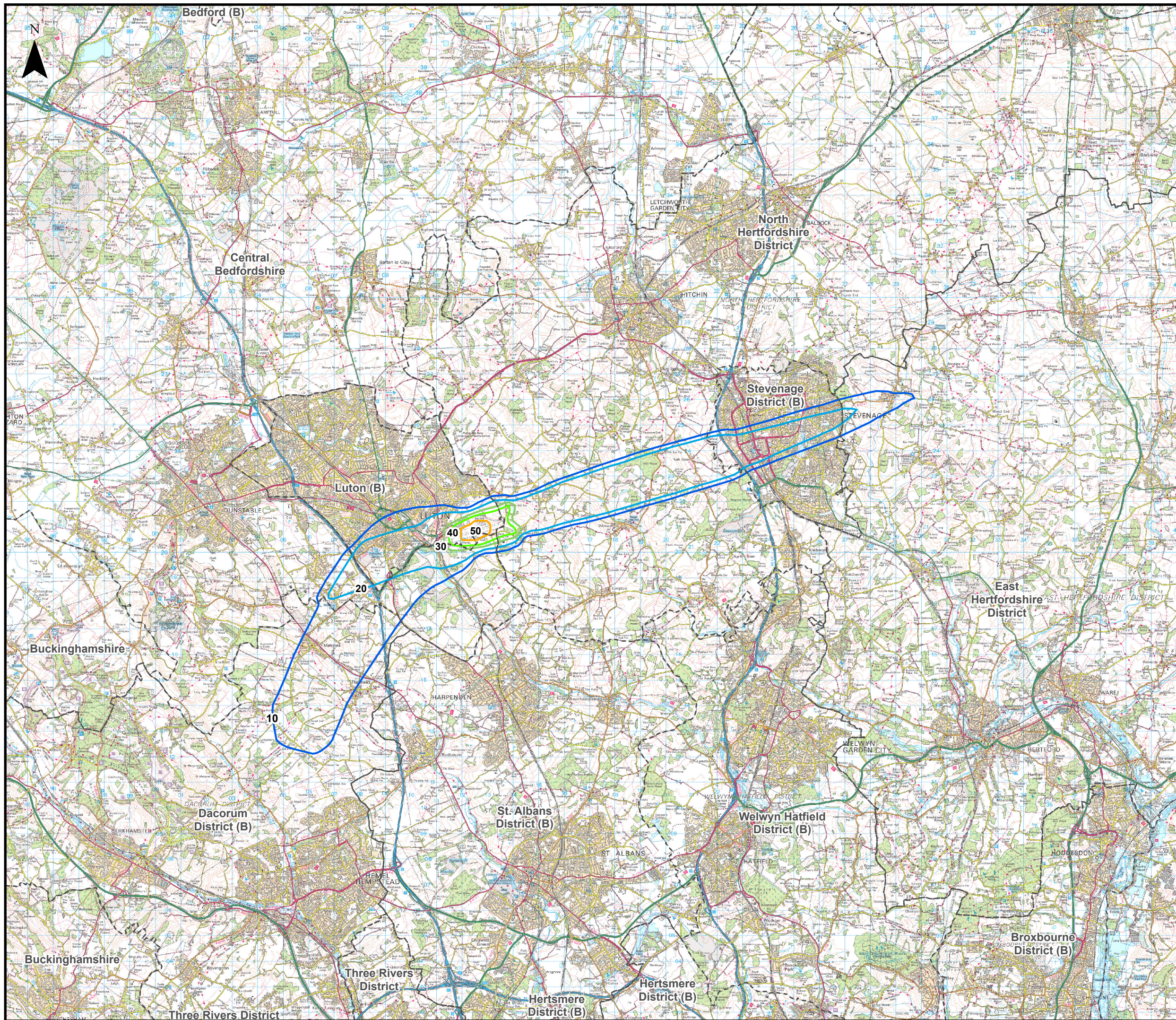
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Drawing Title: Figure 16.47
Extent of 2039 Do-Minimum Daytime number of aircraft above 65 Decibels (dB) LASmax (N65) Noise Contours

Purpose of issue	Additional submissions (updated in response to Rule 9 letter)				Suitability
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSH	CS	20/06/23	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 (2039 Do-Minimum Night-time number of aircraft above 60 Decibels (dB) LASmax (N60))**
- 10
- 20
- 30
- 40
- 50

Additional submissions (updated in response to Rule 9 letter)	LP	CSh	CS	20/06/23	P02
First Issue	MAB	CSh	CS	31/01/23	P01
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Drawing Title: Figure 16.48
Extent of 2039 Do-Minimum Night-time number of aircraft above 60 Decibels (dB) LASmax (N60) Noise Contours

Purpose of issue				Suitability	
Additional submissions (updated in response to Rule 9 letter)				S2	
Drawn	Checked	Approved	Date	Scale	Size
MAB	CSh	CS	20/06/23	1:140,000	A3

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

Drawing Number	Revision
LLADCO-3C-AEC-00-00-DR-YE-0048	P02
Project - Phase - Originator - Asset/Zone - Sub Asset - Type- Discp. - Number	