



Gatwick Airport Northern Runway Project

Environmental Statement

Appendix 14.3.2 Summary of PEIR and Updated PEI Responses – Noise and Vibration

Book 5

VERSION: 1.0

DATE: JULY 2023

Application Document Ref: 5.3

PINS Reference Number: TR020005

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1 Introduction

1.1 Scope

- 1.1.1 This document forms Appendix 14.3.2 of the Environmental Statement (ES) prepared on behalf of Gatwick Airport Limited (GAL). The ES presents the findings of the Environmental Impact Assessment (EIA) process for the proposal to make best use of Gatwick Airport’s existing runways and infrastructure (referred to within this report as ‘the Project’). The Project proposes alterations to the existing northern runway which, together with the lifting of the current restrictions on its use, would enable dual runway operations. The Project includes the development of a range of infrastructure and facilities which, with the alterations to the northern runway, would enable the airport passenger and aircraft operations to increase. Further details regarding the components of the Project can be found in the **ES Chapter 5: Project Description** (Doc Ref 5.1).
- 1.1.2 This document summarises the consultation responses relevant to the noise assessment received for the Preliminary Environmental Information Report (PEIR) and updated Preliminary Environmental Information (PEI) together with how they have been taken into account in the ES.

2 PEIR Responses

2.1 Summary of Stakeholder PEIR Responses

- 2.1.1 Table 2.1.1 summarises the stakeholder responses to comments on the PEIR relating to noise and vibration.

Table 2.1.1: Summary of Stakeholder PEIR responses

Consultee	Key Themes	How/Where taken into account in ES
Local Authority Planning Departments	<ul style="list-style-type: none"> ▪ Local Authority officer comments were constructive and generally seek clarification on method, more detail on assessment results and mitigation. ▪ Construction noise management, CoCP. ▪ Assessment of fixed noise sources. ▪ Road traffic noise at night and mitigation. ▪ Details of air noise model. ▪ Assessment criteria. ▪ Different air traffic forecasts and fleet mix. ▪ Noise Envelope details. 	Eighteen Local Authorities provided 268 comments on noise (including repeats). These were analysed and grouped for discussion in the Topic Working Groups (see below) to ensure views has been fully taken into account. Assessment methods were adjusted (see Section 14.4 of the ES Chapter 14: Noise and Vibration (Doc Ref. 5.1), more detail was added in particular for construction noise, road traffic noise and fixed noise sources (see Section 14.9 of ES Chapter 14: Noise and Vibration). The Noise Envelope has been fully developed (see ES Appendix 14.9.5: Air Noise Envelope Background (Doc Ref 5.3), ES Appendix 14.9.7: The Noise Envelope (Doc Ref. 5.3), ES Appendix 14.9.8: The Noise Envelope Group Output Report (Doc Ref 5.3) and ES Appendix 14.9.9: Report on Engagement on the Noise Envelope (Doc Ref 5.3)).
Parish and other councils	<ul style="list-style-type: none"> ▪ Increase in air noise. ▪ Increase in overflights. ▪ Need for consultation on a noise envelope. 	The overflights assessment was refined and is reported in more detail (see Section 14.9 of ES Chapter 14: Noise and Vibration (Doc Ref. 5.1) and associated figures). Further stakeholder engagement was undertaken on the formulation of the Noise Envelope (see below).
UK Health Security Agency	<ul style="list-style-type: none"> ▪ Methodology and thresholds of effects. ▪ Suggestion that a sleep disturbance should be quantified beyond the monetized summary provide in the WebTAG assessment. 	Thresholds have been noted and a physiological assessment of sleep disturbance has been carried out, see Section 14.9 of ES Chapter 14: Noise and Vibration (Doc Ref. 5.1).
Members of the public	<ul style="list-style-type: none"> ▪ 3,200 stakeholders provided 15,000 comments on noise. ▪ Increase in air noise. ▪ Noise impacts in specific locations. ▪ Increase in overflights. ▪ Need for consultation on a noise envelope. 	As above. Comments were considered and taken into account where possible.

3 Updated PEI

3.1 Updated PEI Responses

3.1.1 Table 3.1.1 summarises the stakeholder responses to comments on the Updated PEI relating to noise and vibration.

Table 3.1.1: Summary of Stakeholder Updated PEI responses

Consultee	Key Themes	How/Where taken into account in ES
Local Authorities, environmental health	<ul style="list-style-type: none"> ▪ Details of traffic noise impacts and mitigation. ▪ Impact of vegetation loss due to a noise barrier in Riverside Garden Park. 	Meetings were held to discuss modelling details and mitigation options (see Section 14.8 and 14.9 of ES Chapter 14: Noise and Vibration (Doc Ref. 5.1) and ES Appendix 14.9.4: Road Traffic Noise Modelling (Doc Ref. 5.3)).
Local Authorities, highways departments	<ul style="list-style-type: none"> ▪ Maintenance of a noise barrier in Riverside Garden Park. 	Further modelling showed the noise barrier could be removed (see Section 14.9 of the ES Chapter 14: Noise and Vibration (Doc Ref. 5.1) and ES Appendix 14.9.4: Road Traffic Noise Modelling (Doc Ref. 5.3)).
National Highways	<ul style="list-style-type: none"> ▪ Impact in the two Noise Important Areas. 	Meetings were held to discuss modelling details and mitigation options (see Section 14.9 of the ES Chapter 14: Noise and Vibration (Doc Ref. 5.1) and ES Appendix 14.9.4: Road Traffic Noise Modelling (Doc Ref. 5.3)).

4 Stakeholder Engagement

4.1 Stakeholder Engagement on Noise and Vibration

4.1.1 Key issues raised during consultation and engagement with interested parties specific to the noise and vibration assessment are listed in Table 4.1.1, together with details of how these issues have been addressed within the ES.

Table 4.1.1: Summary of Consultation

Consultee	Date	Details	How/where addressed in ES
Crawley Borough Council, Mid Sussex District Council, West Sussex District Council, Reigate and Banstead District Council, Mole Valley District Council, Horsham District, Council Surrey County Council, East Sussex County Council and Kent County Council.	29 August 2019	DCO Project Local Authority Noise Topic Working Group stakeholder meeting. Noise assessment methodology.	The assessment methodology has taken into account comments raised, where appropriate, see Section 14.4 of ES Chapter 14: Noise and Vibration (Doc Ref. 5.1).
	5 February 2020, 10 August 2021	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Noise assessment emerging results.	Assessment methodology was discussed resulting in clarifications in Section 14.4 of ES Chapter 14: Noise and Vibration (Doc Ref. 5.1). Further detail of noise mitigation from construction, the Noise Insulation Scheme (NIS) and proposed noise envelope was requested and is added to Section 14.8 and 14.9 of the ES Chapter 14: Noise and Vibration .
Civil Aviation Authority (CAA)	7 May 2021	Meeting to discuss air noise assessment methodology.	As reported in Section 14.4 of ES Chapter 14: Noise and Vibration (Doc Ref. 5.1), various aspects of the noise assessment were discussed and agreed including the choice of noise metrics, the estimation of overflights and application of the Department for Transport (DfT) WebTAG workbook.
Crawley Borough Council, Mid Sussex District Council, West Sussex District Council, Reigate and Banstead District Council, Mole Valley District Council, Horsham District, Council Surrey County Council, East Sussex County Council and Kent County Council.	4 May 2022	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Air Noise focus.	The main Local Authority comments on the PEIR assessment of air noise were discussed. Use of Route 10 discussions led to refinement of the Overflight assessment (ES Appendix 14.9.2: Air Noise Modelling (Doc Ref. 5.3) gives details). Assessment methodologies were clarified, detail was added to the assessment and discussions begun on the Noise Envelope.
	7 June 2022	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Ground Noise focus.	The CAA presented a paper on the ANCON air noise model. The ground noise baseline report was issued and explained. Comments on ground noise were discussed including the approach to fixed noise sources, the assessment was refined and reporting clarified.
	28 June 2022	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Construction and road traffic noise focus.	The road traffic noise modelling and assessment results were presented, and comments discussed. The construction noise assessment method was discussed and criteria adjusted. In all post-PEIR TWA meetings responses to local authority comments were discussed and circulated.
	25 July 2022	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Air noise Envelope.	The meeting discussed a wide range of aspects of the Noise Envelope following discussions at the Noise Envelope Group meetings. Local Authorities expressed some views but did not offer firm views on many of the elements of the Noise Envelope that GAL had formulated and presented.
	5 October 2022	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Air noise ES results.	The Physiological Sleep Disturbance Assessment was presented and discussed and comments taken on board for reporting.

Consultee	Date	Details	How/where addressed in ES
			The further air noise contour modelling and assessment for the ES was summarised and no further requests were made. Various data was supplied in GIS format. The Noise Envelope developing from further engagement was described and discussed.
	29 November 2022	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Road traffic and ground noise focus.	In this meeting there were further discussions on the road traffic noise including the noise barrier options considered, and ground noise assessment methodology and results.
	4 January 2023	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Noise Envelope, Construction noise impacts and mitigation, Noise Insulation Scheme.	Comments on Noise Envelope considered in further development. See ES Appendix 14.9.5: Air Noise Envelope Background (Doc Ref 5.3) and ES Appendix 14.9.7: The Noise Envelope (Doc Ref. 5.3). Consultation on the Noise Envelope is summarised in ES Appendix 14.9.8: The Noise Envelope Group Output Report (Doc Ref 5.3) and ES Appendix 14.9.9: Report on Engagement on the Noise Envelope (Doc Ref 5.3). Construction noise assessment further refined. Noise insulation scheme further refined, see ES Appendix 14.9.10: Noise Insulation Scheme (Doc Ref 5.3).
	8 February 2023	DCO Project Local Authority Noise Topic Working Group stakeholder meetings. Road traffic noise barrier, Air Noise Viewer, Statement of Common Ground.	Noise Barrier Options Report issued, Air Noise Viewer and access discussed, statement of common ground (SOCG) discussed.
National Highways	13 July 2022, 25 July 2022	To discuss noise assessment results, impacts on Noise Important Areas, noise mitigation the case for a noise barrier in Riverside Garden Park.	GAL presented detailed results of noise modelling with and without a noise barrier in Riverside Garden Park, and the pros and cons were discussed. Subsequently the noise barrier was removed.
Local Authorities, highways departments National Highways	27 July 2022	To discuss noise assessment results, impacts on Noise Important Areas, noise mitigation, the case for a noise barrier in Riverside Garden Park.	GAL presented detailed results of noise modelling with and without a noise barrier in Riverside Garden Park, and the pros and cons were discussed. Subsequently the noise barrier was removed.
Reigate and Banstead District Council	28 July 2022	To discuss noise assessment results, impacts on Noise Important Areas, noise mitigation the case for a noise barrier in Riverside Garden Park.	GAL presented detailed results of traffic noise modelling with and without a noise barrier in Riverside Garden Park, and the pros and cons were discussed. Subsequently the noise barrier was removed.
Noise Management Board	May to October 2022	GAL formed a Noise Envelope Group to seek further views on the noise envelope to guide the development of the final proposal for the DCO. Terms of reference were produced, and two sub-groups were established; the Local sub-group and the Aviation sub-group to facilitate discussions with local communities, local authorities, and aviation stakeholders. Twelve meetings were held between 26 May and 11 October 2022.	The views expressed have been taken into account in developing the full Noise Envelope presented in ES Appendix 14.9.7: The Noise Envelope (Doc Ref. 5.3). Background to the Noise Envelope is presented in ES Appendix 14.9.5: Air Noise Envelope Background (Doc Ref 5.3). Consultation on the Noise Envelope is summarised in ES Appendix 14.9.8: The Noise Envelope Group Output Report (Doc Ref 5.3) and ES Appendix 14.9.9: Report on Engagement on the Noise Envelope (Doc Ref 5.3).