SECTION 131 FORM

Appeal NO:_ABP_314485
TO:SEO Defer Re O/H
Having considered the contents of the submission dated/received 21)12)24
Sohn G Law I recommend that section 131 of the Planning and Development Act, 2000 be/not be invoked at this stage for the following reason(s):
be/not be invoked at this stage for the following reason(s):
E.O.:
E.O.: Date: 8) 1 25
To EO:
Section 131 not to be invoked at this stage.
Section 131 to be invoked – allow 2/4 weeks for reply.
S.E.O.:
C.A.O
Date:
M
Please prepare BP Section 131 notice enclosing a copy of the attached
to:
Allow 2/3/4weeks - BP
EO:
AA: Date:

s. 37

File With	

CORRESPONDENCE FORM

as follows: 1. RETURN TO SENDER with BP 2. Keep Envelope: 3. Keep Copy of Board's letter
1. RETURN TO SENDER with BP
1. RETURN TO SENDER With Di
1. RETURN TO SENDER With Di
2. Keep Copy of Board's letter
3. Keep Copy of Board's letter
RETURN TO EO
Plans Date Stamped
Date Stamped Filled in
AA:
Date:

Lodgement Cover Sheet - LDG-077152-25

Details

An Bord Pleanála

LDG-077152-25

Lodgement ID

Created By

Map ID

James Sweeney

õ

Physical Items included Generate Acknowledgement

Letter

Customer Ref. No.

PA Reg Ref

Lodgement Date	21/12/2024
Customer	John G. Law
Lodgement Channel	Email
Lodgement by Agent	No
Agent Name	
a to the second contract of	
Collespondence Primarily Sent to	
Registered Post Reference	

Categorisation

Observation / Submission	Processing
Lodgement Type	Section

Case Type (3rd Level Category) | Normal Planning Appeal PDA2000

Fingal County Council

PA Name

F20A/0668

Fee and Payments

Specified Body	No
Oral Hearing	No
Fee Calculation Method	System
Currency	Film
Fee Paid	0.00
Refund Amount	

Related Payment Details Record

Observation/Objection Allowed?

Payment

Observation

Run at: 08/01/2025 13:04

Run by: James Sweeney

A proposed development comprising the taking of a 'relevant action' only within the meaning of Section 34C of the Planning and Development Act 2000, as amended, at Dublin Airport,

Co. Dublin, in the townlands of Collinstown, Toberbunny, Commons, Cloghran, Corballis, Coultry, Portnellick, Harristown, Shanganhill, Sandyhill, Huntstown, Pickardstown, Dunbro, Millhead, Kingstown, Barberstown, Forrest Great, Forrest Little and Rock on a site of c. 580 ha. The proposed relevant action relates to the night-time use of the runway system at Dublin Airport. It involves the amendment of the operating restriction in condition no. 3(d) and the replacement of the operating restriction in condition no. 5 of the North Runway Planning Permission (Fingal County Council Reg. Ref. No. F04A/1755, ABP Ref. No. F0AA/1756, ABP Ref. No. F0AB-305289-19), as well as proposing new noise mitigation measures. Conditions no. 3(d) and 5 have not yet come into effect or operation, as the construction of the North Runway Planning Permission is orgoing. The proposed relevant action, if permitted, would be to remove the numerical cap on the number of flights permitted between the hours of 117m and 7am daily that its devent or orgonal measures or and or replace it with an annual might-time noise quota between the hours of 1130pm and 6am and also to allow flights to take off 6am and/or land on the North Runway (Runway 10L 28R) for an additional 2 hours i.e. 2300 hrs to 2400hrs and 66am and/or land on the North Enumber of flights taking off and/or land increase in the number of flights taking off and/or land increase in the number of flights taking off and/or land increase in the number of flights taking off and/or land increase in the number of flights taking off and/or land increase in the number of flights taking off and/or land increase in the number of flights taking off and/or land increase in the number of flights taking off and/or land or broom into crease in the number of flights taking off and/or land or broom into crease in the number of flights taking off and/or land or the number of broom into or or or or or or or or o	hrs and 0700 hrs over and above the number stipulated in condition no. 5 of the North Runway Planning

Run at: 08/01/2025 13:04

Run at: 08/01/2025 13:04

cil Ref. the and eed n. The cct to sise ce ce ce ce ce rport) ation nt nt nt ng sopoy, nority 9.30		Τ
unty Coun 343; ABP I ovide that Terminal 1 diall not excluding ber annun in accordar (Dublin Ai and Regul e planning in the purp or the planning with the Planning An Assessme of with the Planning An Assessme of with the Inspired by any be inspired by any be inspired by any be inspired by any be inspired with the Planning Authority and Eing County Hingal, Co.	,	
(Fingal Coo. F06A/18 223469) prapacity of appacity of acceptance of acce		
Permission (Fingal County Council Reg. Ref. No. F06A/1843; ABP Ref. No. PL06F.223469) provide that the combined capacity of Terminal 1 and Terminal 2 together shall not exceed 32 million passengers per annum. The planning application will be subject to an assessment by the Aircraft Noise Competent Authority in accordance with the Aircraft Noise (Dublin Airport) Regulations Act 2019 and Regulation (EU) No 598/2014. The planning application is accompanied by information provided for the purposes of such assessment. An Environmental Impact Assessment Report will be submitted with the planning application and Environmental Impact Assessment Report may be inspected or purchased at a fee not exceeding the reasonable cost of making a copy, at the offices of the Planning Authority during its public opening hours of 9.30 County Council, Fingal County Hall, Main Street, Swords, Fingal, Co.	Oublin.	Yes
		%
		g Items
		Supportin
	Applicant	Additional Supporting Items

Run at: 08/01/2025 13:04

Dublin Airport, Co. Dublin

Development Address

Appellant

Development Type

Supporting Argument

08/08/2022

PA Decision Date

County

David Behan

From:

John Law <jlaw@mckennalaw.ie>

Sent:

Saturday 21 December 2024 13:49

To: Cc: Appeals2

CC:

Alan Law

Subject:

An Bord Pleanala, case no. PL06F 314485

Attachments:

21122024ABP letter re airport noise.pdf

Caution: This is an **External Email** and may have malicious content. Please take care when clicking links or opening attachments. When in doubt, contact the ICT Helpdesk.

Good afternoon

Attached please find my submission in relation to An Bord Pleanala, case no. PLO6F 314485.

Yours sincerely

John G. Law

McKenna Law Limited

Chartered Certified Accountants

The Archway, Malahide Marina Village,

Malahide, Co Dublin, K36NX79

Telephone no.: 353 -1-8456111

Fax no.: 353-1-8456128

This email and any attachments are confidential and maybe legally privileged. It is intended solely for the use of the individual to whom it is addressed. Access to this email by anyone else is unauthorised. If you are not the addressee, any disclosure, reproduction, copying, distribution or other dissemination or use of this communication is strictly prohibited. If you have received this transmission in error please notify the sender immediately (you can send an email to admin@mckennalaw.ie) and then delete the email. Alternatively in emergencies you can telephone our office on ++ 353 1 8456111.

Email transmission cannot be guaranteed to be secure or error free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, and shall have no liability for any loss or damage by the user, which arises as a result of email transmission. If verification is required please request a hard copy version.

Any views or opinions expressed are solely those of the author and do not necessarily represent those of McKenna Law Limited.

The Secretary,
An Bord Pleanala,
64 Marlborough Street,
Dublin 1, D01 V902
Monday 23rd December 2024.

An Bord Pleanala, Case No. **PL06F 314485**Planning Authority Case Reference. F20A/0668
Location of Planned Development. Dublin Airport.

Reply To Draft Decision by An Bord Pleanala (€50 already Paid)

Attachments. 1. Searson & Associates Acoustic Report Dated 11/12-07-23.

- 2. Searson & Associates Acoustic Report Dated 21/22-10-24.
- 3. Mr. Kenny Jacobs letter undated
- 4. Table 8.1 Aircraft Noise Zones, FCC, Development Plan, 2023-2029.
- 5,6 & 7 Location Maps and Illustrative Graphics.

References. Inspectors Draft Decision Report.

Vanguardia Report.

Dear Sir/Madam,

Thank you for your request to reply to the Inspectors Draft Decision at this stage of the Public Consultation Process, concerning the above Relevant Action (RA).

The substantive issue regarding our observation remains the same, the concerning issue of excessive aircraft noise. Attachment 1, previously submitted, is further supported by another acoustic survey conducted on the night of 21st/22rd October 2024, at three additional homes within the Blackwoods Estate, Malahide, Co. Dublin. The Blackwoods Estate is located at the junction of the R124 and Blackwood Lane, Malahide, some 5.7 kms (3.5mls) from Runway 28R and 266 metres from the Approach Flight Path of Runway 28R's Centre Line. See Graphic No 5.

Searson & Associates 1st & 2nd Acoustic Surveys Attachments 1 & 2.

Aircraft pass overhead as low as 289metres (950ft) and 396metres (1,300ft). The most common type of aircraft involved have a gross landing weight of approximately 96 tons descending overhead on a 3-degree slope, under powered slow flight; perse they are noisy.

Mr Searson's Second Report speaks for itself having recorded some 66 night-time flights, on finals for Runway (Rwy) 28R (the north runway), 10.6% of which were equal to or in excess of 80dBs LAFmax. Mr. Searson makes a valid point in his report, drawing attention to the fact that all 66 flights would cause an internal bedroom reading, without adequate noise insulation, well in excess of the recommended 45 dBs LAFmax. Please consult his attached report (21/22-10-2024) in conjunction with his initial report for a more studied explanation of his findings and

recommendations. Please also see Attachment Number 3 a letter in answer to the Searson Acoustic Report (1) from the DAA., CEO., Mr. Kenny Jacobs, indicating they have no intention of addressing their disturbing noise levels. Another note of interest is he did not question the acoustic findings of the Searson Report.

Point of Clarification.

Mr. Fiumicelli in his report refers to **LAmax.** Therefore, it is respectfully requested, for clarity's sake; is this the fast or slow metric he is referring to? Mr. Searson holds in his report that the fast metric is more appropriate to these particular acoustic events.

1 Night-time Noise and the Insufficient Lnight Metric

As alluded to by Mr. Fiumicelli, in his Vanguardia Report, so many assumptive factors, variables and operational issues must form part of the modelling for **Lden** and **Lnight**, public confidence is eroded, especially in areas of concentrated noise as it is here in Blackwoods and immediate surrounds.

We very much welcome that the **Vanguardia Report** and the **Inspector's Report** recognises that using only the **Lnight** metric to assess night-time noise impact is inadequate. The **Lamax** metric, which measures the maximum noise of individual aircraft events is critical in understanding the disturbance caused by isolated, loud overflights.

More especially for us here in Blackwoods, during night-time operations on runway 28R, where the frequency of such loud overflights can be within 2 to 3-minute intervals for hours on end, covering a period of four nights per week, mostly during the summer season when Rwy 28L is closed for maintenance purposes. A further 3 maintenance periods, lasting for four consecutive nights each, are envisaged for the future. These periods can be broken up further due to meteorological conditions thus we are never sure of their frequency or duration.

A further point of clarification is, what designates essential maintenance?

2 Proposed Qualification Limit of 80dBs

Extract from ABP-314485_22 Draft Decision Ref No F²⁰A/0668

Residential dwellings subject to aircraft noise of 80 dB L_{Amax} based on the noise footprint of the airport's westerly and easterly single modes of approach and departure (not averaging the modes of operation of the airport over the 92 days of summer) between 2300 hrs and 0700hrs.

The above extract from the Draft Decision is a most welcome inclusion recognising as it does the inadequacy of the previous modelling criteria i.e.., Lden & Lnight. However, I would make the

It is not possible for the human ear to differentiate between say 76dBs and 80dbs nor for that matter 80dBs and 84dBs; they are experienced as exceptionally loud noise. Despite the very technical and complicated world of acoustic measurement, it would be fair and reasonable to assert, the average person being exposed to such levels of noise, would conclude it is very noisy indeed but not be able to distinguish between the severity of the two, other than conclude they were noisy.

Take Events 2 and 3 of Mr. Searson's Second Acoustic Report for Instance. Despite both awellings being within 160 metres of each other (approximately), both acoustic events recorded the same results for each dwelling but inversely. Neither occupant could distinguish between both aircraft, to their ears, they were disruptive noisy events. Acoustic equipment is far more sensitive and precise compared to the human ear but all eleven households within Blackwoods experience these events in the same moment, as they occur, they are disruptively noisy aircraft; all be it they have differing acoustic values. Mr. Searson records 10.6% of over flights at 80bBs or greater and 37.9% at 78dBs or greater; some 25 night-time events. I will

3 Dublin Airport Authority Noise Insulation Scheme.

The current qualification for inclusion in the above scheme is a maddening 63 **LAeq** 16hrs and then only amounts to \leq 20,000. In other words, the qualification is onerously hard to achieve and the grant comparatively low by comparison with the remedial cost. The figure was proffered by the DAA and endorsed by ANCA.

This figure takes no account of building size, type, location, or replication within a specific area/estate. Is the concerned premises a detached, semi-detached, or terraced dwelling or, a single apartment, one of many, within a scheme of taller buildings? How many bedrooms are involved or indeed how many family members or others reside within the premises.

Where did the grant amount originate? How was it evaluated and costed? Under such a scheme what input did relevant professional bodies like the Institute of Cost and Management Accountants or the Society of Chartered Surveyors of Ireland have? Was the figure cost indexed to take account of building materials inflation, Ireland having the highest building costs in

Not a Question of Affordability

On the other side of the equation should the RA meet with approval all those who occupy commercial premises neighbouring Dublin Airport will be the beneficiaries of significantly increased valuations, of which the DAA will enjoy the largest gains. Because of this proposed increase in passenger volumes retail trade at the airport will grow demonstrably. Some remarkably simple numbers will demonstrate my point.

The proposed increase in passenger volumes will increase by 10 million. If the current 30 million passenger cap can yield an annual profit of €176,000,000 (2023 Audited Accounts) by the same correlation 40 million passengers can yield an annual profit of €235,000,000, enough to insulate 11,750 Dwellings ANNUALLY, at a cost of €20k per Dwelling!!

4 ANCA, Fingal County Council (FCC) and the DAA.

Fingal County Council's total budget for 2023 amounted to €333.7 million of which some €33.5 million came from commercial rates levied on Dublin Airport; some 10% of their overall budget. Outside of Government funding Dublin Airport is their single largest source of revenue. FCC are also the scie source of funding, staffing, facilities and management for ANCA (Aircraft Noise Competent Authority). In a country with an independent self-financing local authority (municipal entity) with controlling powers rested in elected officials (councillors) this may not be a significant factor. However, it is not the case here, bearing in mind Ireland is the most centrally governed country within the European Community. Our county councillors have no executive function and limited voting rights.

I site the following factors for your consideration with the caveat that such close and interlocking associations have a stimming effect on decision making, much to the detriment of Fingal's populace; especially when it comes to issues concerning the Dublin Airport Authority.

- a) On 15th October 2024 Fingal County Council requested submissions for a **Dublin** Airport Noise Action Plan, primarily in my opinion as a result of An Bord Pleanala's work on the subject. This was the first time the executive sought public opinion.
- b) Whilst ANCA have it within their remit to request submissions from anybody other than the DAA they have never done so, to my knowledge. On several occasions they refused to consider Mr. Searson's Acoustic Report (1) as they have sole discretion in the matter of submissions.
- c) In the Fingall Development Plan 2023-2029 the county is split into several Aircraft Noise Zones; Blackwoods is categorised in Zone B (≥54dBs <63 LAeq 16hrs and/or 55dB Lnight). Should there be a requirement for planning permission within this zone, an acoustic survey must be conducted by a suitably qualified person at the expense of the applicant, the results of which must be incorporated in any subsequent build by way of suitable noise insulation.
- d) Resulting from ANCA's Noise Contour Modelling, Blackwoods, is considered to be in an 40-44 **Lnight** Zone. Considering the aforementioned c) above this is a total contradiction in realities and only benefits both the DAA and FCC to the detriment of the Fingal citizen.
- e) When the aforementioned Fingal Development Plan 2023-2029 was in its final stages Fingal's elected councillors voted to include the WHO Strong Guidelines for Dwellings

Affected by Airport Noise of **Lden** 45dBs into the document; all be it vigorously opposed by the executive in the form of the County Manager. The Department of Housing and Local Government forced the executive under threat of Central Exchequer Funding Reduction to remove the clause despite public opposition.

Proposed Conditions in Granting Relevant Action

- Point of Clarification. Precise clarity should be stipulated as to the fast or slow metric in measuring night- time acoustic levels e.g., LAFmax. or LASmax. LAFmax should be the designated metric.
- 2. Essential Maintenance Must be Defined and Approved. Is it reasonable communities neighbouring the north runway (28R) should be subject to excessive night-time aircraft noise several nights in a row, for the purposes of cutting grass.
- 3. 2 Proposed Qualification Limit of 80dBs. For the reasons set out in item 2 above, it is requested this condition be further enhanced, taking into consideration the following,
 - a. With the exception of north Portmarnock most the dwellings along the approach flight path for Rwy., 28R, are either single residences or a small number of estates consisting of between 10 and 20 properties. Small estates similar to Blackwoods experience the aircraft noise similarly and simultaneously, after all we live cheek by jowl.
 - b. When Rwy.,28R is operational for arriving aircraft they pass overhead generally at a frequency of one aircraft at between 2- and 6-minute intervals throughout the night. The second acoustic survey showed 49 of the 66 flights were in excess of 77cBs.

Proposed Remedy.

Two possible solutions with solution 1 being the preferred.

- (1) An independent suitably qualified person/entity conduct an approved acoustic survey to designate areas of **Concentrated Noise** when Rwy., 28R is operational for inbound aircraft with **LAFmax** the deciding metric to give a qualifying in bedroom noise level below 45dBs. Please refer to Mr. Searson's Second Report
- (2) A condition that any dwelling disturbed by aircraft noise in excess of 76dBs more than five times in any 60-minute period should qualify for sound insulation

grant.

4. 3 Dublin Airport Authority Noise Insulation Scheme.

Proportionality must play a part in evaluating size and scope of the noise insulation to be provided. Human Beings, Old and Young and Families are at the heart of this proposed solution. One size for all is not a remedy.

A Suitably Approved Noise Insulation Scheme be provided by the DAA with Proportionality at its Core. Both the Size and Scope of each Insulation Project Form a Program of Works.

5. 4 ANCA, Fingal County Council (FCC) and the DAA.

For the reasons stated above Aircraft Noise Monitoring MUST be placed under the stewardship of a truly INDEPENDENT body and financed by the DAA.

To conclude, thank you for accepting this submission. Yours is an onerous task made all the harder due to our system of local and municipal government. In truth much of the work and decision making forced upon you, should and could have been avoided had the required legislation been in place,

Name(printed)	JOHN G. LA	W		
Address(printed).	WESTVIEW	2 BLACKW	2000	•••••••
	BLACKWOOD LA	NE. MALAUIX	DE. G. DUBLIN,	W36 PK72
Signed	John J. K	aw		
Date. 21 Decer	•			

SEARSON

CONSULTING ENGINEERS

KARL V SEARSON

Phone (087) 2588061 (089) 2158958

C Eng MIEI MIOSH MIOA ACIArb

Email searsonassociates@gmail.com

OUR REF: 8569/23 rev 2.1

YOUR REF: BG

DATE: 5th October 2023.

Mr Bart Glover, 4, Blackwoods, Blackwood Lane, Malahide Bart@kayskitchen.ie

Re: No 4, Blackwoods: Aircraft Noise Assessment, index of noted events.

Dear Mr. Glover,

I am setting out below details of the 101 significant events which were recorded at/in your home over the measurement period which commenced shortly after 15:00 hours on 11th July and terminated at 09:00 hours on 22nd July 2023. During this 127 hour-odd period specific attention was paid to night time events, night-time commencing at 23:00 hours and terminating at 07:00 hours the next morning. The specific events were proximate aircraft fly-by's which provoked excessive in-bedroom noise levels. You had been advised that certain "test periods" had been selected by DAA for new flight paths and the measurement sessions were intended to analyse the levels associated with these new night-time fly-by events.

An aircraft identification application - with acronym FR - was initially used to identify those in-bedroom noise signals which characterised "events", but that application left many events unidentified. A subsequent package, with acronym WT and available on the internet, was accessed. It proved useful in reviewing the flight passes with respect to Dublin Airport during the above-mentioned measurement period and traces of specific fly-paths were noted and compared to the gathered acoustical data. It respect to Blackwoods) and correlate such results with the time stamp of the fast-logged acoustical call in this espect the primary time metric was that accompanying the highest in-bedroom fast level defined below as Lafmax) and the corresponding flight, gauged from "inching" the incoming aircraft comprodurate to Blackwoods and noting the corresponding time, aircraft type and flight identification had a latter 101 events noted, the maximum time difference between the fast logged (primary) accustics, data and the WT time display was 22 seconds. As the minimum interval between incoming find the swas typically six times this interval, no significant error arises.

The accustical data refers to both indoor and outdoor locations, the indoor location being in a pearcorn with the window ajar for fresh air admission and the outdoor location being some 3,5m out more tagade of that bedroom, and at a height of 4m overground.

There are a number of accustical metrics of interest, as follows:

- Large : This is the noisiest portion of an event, assessed with the fast time constant and
 expressed in A-Weighted decibels, dB(A).
- Lasmax This is the noisiest portion of an event, assessed with the slow time constant and expressed in A-Weighted decibels, dB(A).
- SEL This is the total acoustical energy associated with a given event but normalised back to
 a the second time interval. It is expressed in A-Weighted decibels, dB(A). It is an acronym for
 "single event level" or, alternatively, "sound energy level".

Considerable data have been gathered and to present same in a coherent fashion I have prepared appendices showing the relevant data for each day and, additionally, tabulated the LAFMAX trace from outdoors and indoors directly under each other to enable the contours to be visualised. For each outdoor event provoking excessive in-bedroom levels, I have tabulated and included the above metrics. The orimary time is the Brüel & Kjær time (B & K time).

I Report as follows:

The first series of data refers to the night-time profiles on 11th July 2023. There were six notable events, numbered accordingly, and I have tabulated the metrics, times and details in table 1A, below. I have also prepared and attached, as appendix 1, the Comparative fast trace 23:29 – 00:00, 11th July 2023. This trace depicts the outdoor profile in the upper (1A) portion and, directly below, the corresponding provoked in-bedroom level (1B).

TABLE 1: 6 noted events of 11th July, #1 - #7.

795	B&Ktime	I MAGE ER LAND	T		UTDOOR:	S - A		NDOORS	- B
-		WT Flight id.	Туре	SEL	LAFmax	L _{A3max}	SEL	1	
_	23:31:27	RYR2PC	B738	85	76	73	65	L _{AFTIREX}	LASma
2_	23:33:38	EIN40W	A320	86	81	77			55
3	23:36:24	GEC 8582	A321	85	77		67	61	59
¢.	23:39:24	EIN611	A320	86		75	66	59	57
=	23:47:02	RYR9M	B738		79	77	66	61	58
	20:50:43	EIN24K		85	79	76	65	60	58
,—	26:67:67		A320	87	79	77	67	60	58
	26.57.57	SWR878C	BCS3	83	73	71	62	54	53

The above table give a useful insight into the reduction in certain acoustic metrics going from outside to inside via a window ajar for ventilation (fresh air admission). While the SEL values have a significant effect on the 5-minute (or 15-minute) Laeq level obtained, the maximum values (fast or slow) are subject to a numerical ceiling. This ceiling applies during night-time, from 20:00 to 07:00 hours, and, in the case of the Laemax, the in-room level should not exceed 43 dB(4) and in the case of the Laemax, the level should not exceed (about) 42 dB(A).

This is the two periods from the 23:00 hours until 23:30 (no significant events) and the management from 23:30 until midnight (7 notable events as set out above), there are significant differences. Via the B&K Evaluator software the following results a have been schablened.

TABLE 2: 30-minute night-time comparisons, no events Vs 7 events

Evens Lagr Lagrax Lagr		INDOORS -	TO TO TEVELL		OUTDOORS		
23.07 - 25.30 No 47 63 60 27 42	· B		Lang	LASmay	LAFmax	LAeqT	Z. Onto :
	LASmax		27		63	47	
81 77 42 61	39 59	61	42	77	81	61	20:30 - 03:00 Yes. 1 - 7

There are good and reliable criteria for a bedroom, at night, with fresh air admission. The Large (sumatimes called the decibel average) should not exceed 30 dB(A), and this should be trained for the duration of the night. The first 30-minute test (no events) has all three removed as 1 to 7) those levels are *grossly* exceeded.

2. The countries of the 24-hour sense) was 12th July. 32 night-time events were noted, and their combinate assumers out in table 2 below:

TABLE 2: parts 1 & 2, 32 notec events of 12th July, #8 - #40.

V/T F.ight Id. Type SEL SC SC R / R / V C A320 83	LAFmax	LASTIN	SEL	NDOORS	
0.00.21 RYRAYO A320 83					1 .
	75	73	66	61	LASmax
83 EURCS: DE RYR2WK 779 B38M	76	73	64	58	58

10	00:08:24	EIN70V	B752	00					
11	00:11:27	RYR5YV		92	86	82	70	62	
12	00:14:56	RYR11YP	B738	87	80	78	67		59
3	00:13:01		B738	85	76	74		61	58
-1	00:25.38	EIN459	A320	86	76	74	66	59	57
-		RYR9QY	B738	86	79		66	61	59
	00:29:21	RYR275Y	B38M	84	_	76	66	58	57
<u></u>	00:31:65	RYR56SP	B738		78	75	64	57	55
	00:34:44	RYR38ZY	B738	85	76	73	66	59	57
	00:33:00	RYR72GD		85	78	75	65	60	
	00:40:26		B738	86	78	76	66		57
	00:42:58	RYRAJW	B38M	83	74	73		59	58
		RYR212	7M8	85	77		64	56	55
	20:45:49	E!N4RL	A320	86		74	65	58	56
	00:48:10	RYRSQ2	B38M	83	80	77	67	60	58
(0:51:14	RUK95CX	B738		80	77	65	56	54
(10:57:24	EIN4GJ		85	76	74	65	58	_
0	1:01:50	EIN43N	A320	87	79	76	67		56
		-1137019	A320	89	79	76	67	61	58

TABLE 2: Continued.

# Time	VvT Flight Id.	Tune		DUTDOOR	S - A		INDOORS	
26 01:04:07	EIN?VT	Туре	SEL	LAFmax	LASmax	SEL		- <u>B</u>
27 01:03:49		A320	89	79	72	66	LAFmax	LASma
	RYR927E	B38M	83	75	72		60	58
21 21:09:50	RYR8L	B738	84	79		63	57	54
29 01:13:42	RYRSVL	B738	84		76	64	60	57
30 01:21:30	TOM239	A320		76	74	65	59	57
01:25:10	EINT99		85	79	76	66	61	58
::27:07	AZD353	A320	36	78	76	66	50	
3 01:30:4:		AT72	87	80	76	66		58
	EMMOS	A320	87	79	77		59	56
01:08:40	EINGJJC	A320	36	79		67	62	59
931:51:36	EINSHL	A320	87		76	67	60	58
5 01/34/10	EINAAY	A320		81	78	67	63	60
02:10:53	EIN514	A320	87	80	77	68	63	60
-2005:10	E/\56V		86	79	77	67	60	
22:20:57	EIN34V	A320	87	81	78	67	-	58
04:25:50		A320	87	79	77	67	62	59
	EIN104	A333	39	79		69	61	59

Appendices 2 parts 1 and 2, show the indeer and outdoor traces. Considerable air traffic movements are used from just after mignight (event #8) until 02:22 (event #39). A single event

- 3. The next few days until the early hours of 18th July passed without any significant night-
- 4. A single event occurred in the early hours of 18th July. There were other signature passes both perfore and after the particular event, but the in-room level associated therewith were all below the threshold Larman level of 45 dB(A). Appendix 3 details the relevant combined trace,

	TABLE 3: Noted	single event	of 18 th July.			
William Id.	Type AT72		JTDOORS L _{AFmax} 70	SEL 58	NDOORS - L _{AFmax} 55	

- 5. There were no notable event on 19th July.
- 6. The 200 duty proved to be particularly busy from the point of view of notable events. A total of a syacis were recorded and analyzed. Appendix 4, the comparative Larmax traces, is broken down into three parts, the tabular data being set out below in table 4:

#	Time	WAY Flight Li			DUTDOOR	S-A		INDOORS	- R
42		WY Flight Id.	Туре	SEL	LAFmax	Lasmax	SEL		Τ.
	00:63.55	RYR275Y	B738	85	75	74	64	_AFmax	LASmax
43	00:55:58	RYR7120	B38M	85	75	+		57	55
44,	00:58:17	RYR77JN	B738	84		74	65	61	57
45	01:00:42	TOM7DX	A320		75	74	64	57	56
48	01:00:42	RYR1391	B738	82	72	71	62	54	53
47	01:04:54	EIN4RL		84	74	74	65	57	56
48	91:08:04	RYR7FL	A320	34	75	74	65	57	56
49			B738	85	75	74	65	58	57
	01.11:34	RYR6E	B738	85	75	75	65	56	55
30	01:13:48	RYR30UE	B738	85	77	76	65		
-	C1:13:32	EIN469	A320	85	78	76		58	56
2	1:25:56	AZD 358	AT72	84	74		65	60	58
3	01:20:17	EINSCR	A320		-	73	654	55	54
		RYRSTO	7	84	75	74	665	57	56
		***************************************	B38M	84	74	73	64	55	54

TABLE 4: continued.

	Time	100			DUTDOOR	S-A	INDOORS - B		
		WT Flight Id.	Туре	SEL	LAFmax	LASmex	SEL	LAFmex	Τ.
	. 2:26.64	TOMBED	A320	83	73	72	63	54	L _{ASmax}
26	02:43:38	EINSHL	A320	84	75	75	65	56	+
21_	03:43:46	EIN104	A333	86	76	75	66	-	55
12	14:00:08	AAL724	B772	87	76	75	+	58	57
-	0404:07	EIN1T0	A21N	83	73	-	66	57	56
5.	04:13:29	Elixasi.	A333	87	77	72	63	54	53
-	-4147:58	BC52886	8734	37		76	67	58	57
	-4:07:2e	FPC7SN	B738		78	78	67	60	59
	UNISD 45	UPS143	B763	36	81	79	66	62	60
	J4142.51	B08500		36	76	75	66	57	56
-		RYR662G	A321	85	77	76	66	58	57
			2738	33	72	71	63	54	53
-		dF7:	A320	85	77	75	65	59	57
		RYRAGHY	<u>\$738</u>	36	78	76	66	60	57
	23:43:30	RYPECH	8738	04	74	73	64	56	55
	13:44:02	GEU8862	A321	24.	75	74	64	56	
	15-50-40	RYPILE	B39M	84	75	74	64	-	55
	- Jid 1:68	RYRSCEY	838M	84	75	74		56	55
4	2016 3126	RYR5:JX	B33r/I	84	73		64	_56	55
				07	13	72	63	55	54

7. The aftern or notable events carried on into the early hours of 21st July. A further 28 events were noted and and your Appendix 5, divided into two parts, sets out the comparative Larmax trap andividual results being tabulated in table 5 below.

TABLE 5, parts 1& 2, 28 notable events of 21st July.

				UTDOOR	S-A	INDOORS - B			
		Туре	SEL	LAFmax	Lasmax	SEL	LAFmax	T .	
3 00:00:48		A320	85	78	76	66	59	LASma	
00:03:44	RYESOY	B738	85	76	75	65		57	
EC0:Sett3	RYP45TC	B33 _I VI	83	74	73	_	57	56	
1 08:59	ENTOV	3752	89			63	55	53	
The second	EN ZO	A320		82	79	69	62	59	
U 3:50	30.500		04	77	75	65	57	55	
		B738	85	75	74	65	57	56	
0:16:06		B38.V/	ಕತ	76	75	63	55	54	
: 3:38	EMITCHU	A.320	84	75	74	65	57	-	
The same of the board of the bo	RYENA	B738	85	76	75	64	-	56	
	EINTEL	A320	25	76	75		56	55	
29.44		A320	35	76	-	65	58	57	
.0:00:00	SYPTOW	B738			75	65	57	56	
	TIBELY		85	73	75	65	59	57	
	17.1.1.1	£100	84	77	75	65	59	57	

86	00:39:49	FIA711	A320	86	77	76	66		
87	00:50:57	NYX300	SF34	80	70		66	58	57
33	00:39:58	RYR8TE	B738	85	75	69	59	50	49
89	00 58:22	RYR38ZG	B38M	84	73	74	65	56	55
90	00:59:07	EIN4GJ	A320	85	76	72	64	56	54
91	01:01:42	RYR87YJ	B738	85	75	76	66	58	57
92	01:11:13	RYR11YP	B738	85	76	74	65	57	56
63	01:16:18	EIN56V	A320	85	78	74	65	58	56
94	01:22:20	AZD358	AT72	84	76	76	66	60	58
95	01:42:49	Elni53,4	A320	85		74	63	54	52
95	02:00:48	EIN490	A320	85	76	75	65	59	57
971	02:00:46	EINE: L	A320		78	76	66	59	58
98	03:31:45	TOM50H		85	77	75	65	59	57
	03:57:56	EIM104	A320	83	73	72	63	55	54
The same of			A333	38	79	77	68	60	59
	04:10:62		8772	87	77	75	67	58	57
		Sinnex	A333	88	78	77	68	60	58

- 8. The above results and appendices indicate a clear and significant issue in respect of the give revenue four have indicated that the DAA e-contacted you (and others) indicating that ites a virtue being conducted.
- 9. From my interpretation of the WT trace, these events are all associated with incoming aircraft, a railing of the North Runway.
- 10. The disk of the hight-time issues, in respect of the 101 events tabulated above, mean that each and sharp one of the above tests provoked in-bedroom noise levels well in excess of the publicated levels geared towards a good night's sleep. Furthermore, on the occasions when these tests the exception conducted proper and suitable levels were measured, post 23:00 for all your pagroom, the window ajar for fresh air admission.
- 11. These lindings are applicable to your immediate neighbours, assuming they rely on natural very contests as samission.
- 12. Ever were the lests to have been conducted for potential "emergency" or "one-off operational conductions, the data, now to hand, means that *unless* and *until* significant that the data in a completed for a chicago state of the commissioned, confirmed and maintained) these flight paths must not a challenger.

Yours since of

Karl Sea 252 Charlere Language