From: Hannah Powell <hannah.powell@adur-worthing.gov.uk> on behalf of Hannah Powell
Sent: 24 November 2021 10:08
To: Peter Barnett
Subject: Re: FW: AWDM/1159/21 - 40 North Road, Lancing

Flag Status: Flagged

Peter
Thank you for forwarding these additional calculations which appear to demonstrate that the acoustic louvres should protect the amenity of the surrounding noise sensitive receptors. I would recommend the following condition:

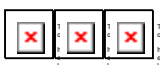
The development hereby permitted shall be carried out in full accordance with the recommendations of the Acoustic report 'Industrial Noise Impact Assessment (IMP7027-3 dated November 2021) and all works which form part of the approved scheme shall be completed before the permitted use commences. A test to demonstrate compliance with the scheme shall be undertaken within one month of the scheme being implemented. All plant shall be maintained in accordance with manufacturers guidance and any future plant shall also meet the specified levels within the approved scheme.

Regards
Hannah

On Mon, 22 Nov 2021 at 16:54, Peter Barnett <peter.barnett@adur-worthing.gov.uk> wrote:

> Hi Hannah
>
> Please can you let me have your comments on this?
>
> Thanks

Peter Barnett
Principal Planning Officer, Adur & Worthing Councils
Phone: 01903 221310
Email: peter.barnett@adur-worthing.gov.uk
Website: http://www.adur-worthing.gov.uk
Address: Development Management, Portland House, 44 Richmond Road, Worthing, BN11 1HS



---------- Forwarded message ---------
From: **Altine Elias** <altine.elias@eliastopping.co.uk>
Date: Mon, 22 Nov 2021 at 16:10
Subject: FW: AWDM/1159/21 - 40 North Road, Lancing
To: Peter Barnett <peter.barnett@adur-worthing.gov.uk>

Dear Peter

Please find an email and calculations below from our acoustic consultant in response to Hannah's latest query; please could you forward to her for review and hopefully confirmation she is now satisfied?

With thanks for your help

Kind regards

Altine

From: brian.scrivener <brian.scrivener@impactacoustics.co.uk>
Sent: 22 November 2021 16:00
To: Altine Elias <altine.elias@eliastopping.co.uk>
Cc: Ian Broom <ian.broom@impactacoustics.co.uk>
Subject: RE: AWDM/1159/21 - 40 North Road, Lancing

Altine

Please see below the calculations carried out that take into account the environment within the plant room as well as the distance from the proposed plant to the louvres internally. These calculations take into account the direct and reverberant sound within the plant room. The reverberation time within the plant room has been calculated using the Sabine formula.

The following demonstrates at the 'Variance', that the actual calculated sound pressure level inside the proposed acoustic louvre is less than that used within our initial report and therefore our assessment remain accurate .

Lp = Lw+10log((Q/4pie x r2)+(4/RC))

	Octave Band Centre Frequency							
	63	**125**	**250**	**500**	**1.0k**	**2.0k**	**4.0k**	**8**
Combined Internal Level	65.3	65.0	62.2	61.2	56.3	52.4	46.9	4
Converted to Lw dB	76.3	76.0	73.2	72.2	67.3	63.4	57.9	3
Q/4pie x r2	0.059701	0.059701	0.059701	0.059701	0.059701	0.059701	0.059701	0.0
4/RC	0.016178	0.010791	0.009476	0.007923	0.006312	0.004643	0.003868	0.0
Calculated Level at Louvre Inside Plant Room	65.1	64.5	61.6	60.5	55.5	51.5	45.9	4

Variance	-0.2	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	
Q	3	3	3	3	3	3	3	
4x Pie r^2 (where r=2)	50.3	50.3	50.3	50.3	50.3	50.3	50.3	
RC = S Alphabar / 1-Alphabar	247.3	370.7	422.1	504.8	633.7	861.5	1034.0	1
Alphabar = 0.16 V/T	3.4	5.1	5.8	6.9	8.7	11.8	14.2	
V	57.6	57.6	57.6	57.6	57.6	57.6	57.6	
T	2.7	1.8	1.6	1.3	1.1	0.8	0.7	
S	72.0	72.0	72.0	72.0	72.0	72.0	72.0	
4/Rc	0.016178	0.010791	0.009476	0.007923	0.006312	0.004643	0.003868	0.0

I trust the above is helpful, and please let me know if the council require anything further.

Kind Regards

Brian Scrivener MIOA

Noise Consultant

Impact Acoustics Ltd

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M: 07976 630808

www.impactacoustics.co.uk

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Today.

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Company No: 7999590

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