

Osmond, Gary

From: Scott, Neil
Sent: 18 October 2023 13:08
To: Osmond, Gary
Subject: Pollution Comment - DC/23/95683 Discharge of Conditions 7 & 8 (vibration assessment) of planning approval F/21/91686: JEWSON LTD, TOYNBEE ROAD, EASTLEIGH

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Gary

Thank you for consulting us on the above application in respect of Conditions 7 and 8 with respect to vibration. We have reviewed the letter report by 24 Acoustic, under the heading: RE: Toynbee Road, Eastleigh- Vibration Planning Conditions, ref R10184-2 Rev 0, submitted in respect of the conditions and have the following comments.

The concerns raised by 24 Acoustic about conditions 7 and 8 appear to be related to the use of the peak particle velocity, ppv, metric, rather than the vibration dose value, VDV, in terms of setting vibration limits. Unfortunately, as Jon no longer works at Eastleigh I am unable to query his choice of parameters. Although both ppv, and VDV, are used to assess human response to vibration, the point made by 24 Acoustic is valid in that VDV is more commonly used for setting longer term exposure limits for vibration, whereas ppv is typically used for shorter term impacts such as from construction.

The next point relates to the choice of VDV to be used for the condition. 24 Acoustic refer to the levels in BS6472 (BS6472 – 1, Guide to evaluation of human exposure to vibration in buildings), where ranges for daytime and nighttime for a 'low probability of adverse comment', are given of 0.2-0.4 and 0.1-0.2 respectively. They also state that even allowing for a worst case building which amplified vibration, based on the previously measured site levels, that VDV's would fall within the 'low probability' range.

Finally, in respect of condition 9 they advise that this is generally acceptable, assuming that the vibration compliance standard for the survey is based on a VDV, rather than a ppv.

In conclusion, we do not disagree with the proposal that the references to ppv should be replaced with VDV, as per BS6472, however we would suggest that the VDV's to be inserted should be lower. We say this as the High Speed 2 rail line project has produced VDV levels for the operational phase of the line, which are more contemporary. These are the bottom of the 'low', category of BS6472. Specifically, for daytime HS2 propose levels of 0.2 VDV or less, and for night time of 0.1 VDV or less (or to be more precise: daytime VDV limit of $\leq 0.2 \text{ ms}^{-1.75}$, and night time VDV limit of $\leq 0.1 \text{ ms}^{-1.75}$).

In the text of the 24 Acoustic report they advise that measured levels on site are below these values, and that buildings generally attenuate vibration rather than amplify it (as is assumed in their worst case assessment). We think it reasonable therefore that the HS2 limits are used, and are reasonable and achievable, and should ensure a good standard for amenity for residents.

If you've any queries let me know

Regards

Neil

Neil Scott

Senior Pollution Control Officer

Service Delivery - Specialist Services - Environment

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Father Christmas

**Saturday 9 – Sunday 31
December 2023**

at The Berry Theatre, Hedge End

From: Planning @ Eastleigh Borough Council <planning@eastleigh.gov.uk>

Sent: Friday, September 1, 2023 12:18 PM

To: Environmental Health Direct @ Eastleigh Borough Council <Environmental.HealthDirect@eastleigh.gov.uk>

Subject: Planning App Consultation Request Internal DC/23/95683

Application No: DC/23/95683

Address: JEWSON LTD, TOYNBEE ROAD, EASTLEIGH, SO50 9DN

Description: Discharge of Conditions 7 & 8 (vibration assessment) of planning approval F/21/91686 for the construction of 105 dwellings together with access from Toynbee Road, associated parking, public open space and landscaping following the demolition of existing buildings.

Would you please let me have your observations on the above application.

You can access the plans and documents through [Salesforce](#). At the top of the screen type the planning application number into the search box and either select the application from the list displayed or press the enter key and select it from the list of results.

In order to meet the Government's challenging targets for our speed of determining applications, we require any comments you wish to make within 14 days from the date of this memo. Failure to meet this time period will usually result in an application being determined without your comments being considered.

Please reply to the planning officer on the below email address.

Planning Specialist Contact Details

Email: gary.osmond@eastleigh.gov.uk

Phone/Ext: 023 8068 8490

Kind regards