

Rebekah Morgan

From: Trevor Dixon
Sent: 03 June 2021 15:32
To: Rebekah Morgan
Subject: 16/00472/OUT - S Grundon Services Ltd

Hi Rebekah,

I thought I had sent this but have just found the email in my draft folder so I apologise for the late response.

I have reviewed the AJA Technical Memorandum referenced 11863 M003.docx in response to the queries raised in my email of the 4 August 2020 and my comments are as follows:

- **Vibration**

Comments accepted and no further assessment is required with regard to vibration levels.

- **Airborne Noise Impact**

Q1 - Agreed that train movements from the main line and noise from the Light Maintenance Depot are the dominant noise sources.

Q2 - Agreed that due to the high noise levels across the site the dwellings cannot be ventilated by openable windows to achieve satisfactory internal levels.

Q3 - Noted that the site topography has been accounted for in the modelling and that all train noise has been assumed to be at a height of 4 metres.

Q4 - Noted that the calculated internal levels have also been based on L_{AFmax} levels.

Q5.1 Agree that in terms of the raw data the full data associated with 0.1 second logging over nine days would be in-practicable and unmanageable. What I was expecting to see in the reports was the average over each of the logging periods for reference. Appendix A in this technical memorandum includes $L_{AF90,15}$ -minutes data for some of the logging periods but not all.

Q5.2 - Confirms that there are less HGV movements at night than during the day.

Q5.3 - Comments noted.

Q5.4 – Comments noted.

Q6 – As confirmed by Q2 the dwellings cannot be ventilated by openable windows to achieve satisfactory internal levels. An overheating assessment will be required to determine if this provides a suitable living environment taking in to account factors such the size and orientation of the windows, and also to determine the specification for the alternative means of ventilation. I would not expect this to be included in an acoustic report but to be undertaken by a suitably qualified and competent person.

The BS 4142 assessment concludes there is a significant adverse impact as a result of the noise from the Light Maintenance Depot and the main railway line. The reports conclude that satisfactory internal noise levels can only be achieved with windows to the dwellings closed. If it is acceptable to have windows closed having regard to the concerns about overheating in dwellings and climate change then the following information will need to be submitted for prior approval:

- Details of the mitigation provided by the building structure including a detailed glazing specification to ensure satisfactory internal levels can be achieved in all the units
- The specification of the 6 meter barrier to ensure satisfactory external and internal levels can be achieved
- An overheating assessment to confirm that a suitable living environment can be provided with windows closed. This will need to include the specification for the alternative means of ventilation requirements

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