

Planning Consultation Memo

Date	Planning Officer	Environmental Health Officer
18/08/17	Mark Peacock	Karl Riahi
Planning Application Number	Worksheet Number	
6/2017/1495/FULL	WK/90871	

Address: Ocado Ltd, Gypsy Moth Avenue, Hatfield, AL10 9BD

Application Details: Installation of an uninterrupted power supply, including 2 x containers, reinforced plinth, cable chamber and the relocation of 6 x lightning protection rods

Considerations relevant to Environmental Health for this application

Noise from proposed UPS

Description of site and discussion of considerations

Noise from proposed UPS

The proposed UPS is made up of a number of elements which create noise, information from the applicant shows that noise from the four UPS units have a total noise level of 78dBA and will be enclosed in a housing, providing 30dB attenuation, however, this is negated by reverberation and the un-attenuated ventilation louvres resulting in 80dBA at 1m from the housing.

External fans are also to be installed resulting in a noise level of 70dB at 1m, this is noted as a low frequency tonal noise which is likely to travel further distances.

Using a simplified distance attenuation calculation, assuming a distance of 350m gives a potential noise level at the nearest residential façade as being 30dB. This does not take into account shielding from the buildings, reflective surfaces, frequency spectrum of the noise or directivity. However, the louder of the noises is stated as being high frequency, which should ensure a high level of attenuation over distance.

Due to the tonal nature, there is some concern over loss of amenity, especially as complaints regarding tonal noise have occurred at extremely low internal noise levels in residential properties circa 20dBA. However, taking into account attenuation provided by a partially open window as being 10 to 15dB, the internal noise level looks likely to be below 20dBA, this along with any existing plant noise in the area will mean that this proposed development should not cause issues.

Conclusion

- Recommend planning application is permitted X
- Recommend planning application is permitted but with conditions
- Recommend planning application is refused

Conditions and Informatives

Construction Noise control

1. All works and ancillary operations which are audible at the site boundary, or at such other place as may be agreed with the Council, shall be carried out only between the hours of :
8.00am and 6.00pm on Mondays to Fridays
8.00am and 1.00pm Saturdays
and at no time on Sundays and Bank Holidays
2. The best practicable means, as defined in section 72 of the Control of Pollution Act 1974, to reduce noise to a minimum shall be employed at all times
3. All plant and machinery in use shall be properly silenced and maintained in accordance with the manufacturers' instructions
4. All compressors shall be sound reduced models, fitted with properly lined and sealed acoustic covers, which shall be kept closed whenever the machines are in use. All ancillary pneumatic percussive tools shall be fitted with mufflers or silencers of the type recommended by the manufactures.
5. All machines in intermittent use shall be shut down during intervening periods between work, or throttled down to a minimum. Noise emitting equipment, which is required to operate continuously, shall be housed in suitable acoustic enclosures.
6. Items of plant and equipment shall be maintained in good condition so that extraneous noise from mechanical vibration, squeaking or creaking is reduced to a minimum.
7. All pile driving shall be carried out by a recognised noise reducing system.
8. Where practical, rotary drills and bursters, actuated by hydraulic or electric power shall be used for excavating hard material
9. In general, equipment for breaking concrete and the like, shall be hydraulically actuated.
10. 'BS 5228 Noise Control on Construction Sites' should be referred to for guidance in respect of all work carried out by the developer, their main contractor and any sub contractors.
11. Any emergency deviation from these conditions shall be notified to the Council without delay
12. Any planned deviations from these conditions for special technical reasons, shall be negotiated with Council at least 14 days prior to the commencement of the specific work.

13. Permissible noise levels are not specified at this stage.

Construction Dust control

1. All efforts shall be made to reduce dust generation to a minimum
2. Stock piles of materials for use on the site or disposal, that are likely to generate dust, shall be sited so as to minimise any nuisance to residents or neighbouring businesses. Materials for disposal shall be moved off site as quickly as possible.
3. Water sprays shall be used, as and when necessary, to reduce dust from particularly "dusty" activities or stock piles.