SHARPS REDMORE PARTNERSHIP

ACOUSTIC CONSULTANTS

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2nd September 2008

E-mail only: [redacted]

Dear Sam,

Ref: Marks & Spencer, Worthing.
Condition 2 of planning permission WB/08/0201/FULL.
Project No: 089588.

I am writing with reference to the above planning condition, relating to noise from the Air Handling Units at Marks & Spencer, Worthing.

We understand that the case officer Mr. H. Barnes Moss has requested that we confirm the actual operational noise levels from the Air Handling Units at the site boundary in order to ensure the agreed limit of 60 dBA is not exceeded.

A visit was made to the store on Monday 1st September to carry out this assessment. The Air handling units were set to run at 100% capacity and measurements taken at positions on or close to the site boundaries. (See Figure 1).

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The results were as follows:

Position 1 – Southern Boundary – Car Park by Apartments

- Noise level with AHUs operating @ 100% Capacity $L_{Aeq(T)}$ = 58 dB
- Noise level with No Plant operating (Residual Noise) $L_{Aeq(T)}$ = 55 dB
- Noise Level at Southern boundary Attributable to AHUs only $L_{Aeq(T)}$ = 55 dB

Therefore the noise from the Air handling Units at the Southern boundary is within the specified 60 dBA limit.

We were unable to directly measure the noise level on the Eastern boundary, as it is inaccessible. However, a measurement was taken 2 metres from the Exhaust of the AHU towards the Eastern boundary of the site. This level has been used to calculate the Noise level at the boundary a further 5 metres away.

Position 2 – 2m from Exhaust side of AHUs (Towards Eastern boundary)

- Noise level at 2m East of AHUs operating at 100% $L_{Aeq(T)}$ = 65 dB
- Distance attenuation over additional 5m = 8 dB
- Noise Level at Eastern Boundary of site Attributable to AHU's $L_{Aeq(T)}$ = 57 dB

Therefore I can confirm that Noise from the AHU's does not exceed the specified limit of 60 dBA, at any point on the site boundary.

It should be noted that the 60 dBA limit was not exceeded, even though the test was performed with the AHU's running at 100%, whereas under normal operating conditions they would only run at around 70% capacity, and as such the noise level from the AHU's at the site boundary would also be reduced.

I trust this is satisfactory, should you require any further information please do not hesitate to contact me.

Yours sincerely,

Paul G. Riches

(this letter has been electronically generated therefore bears no signature)

Figure 1 – Plan Showing Measurement Positions 1 & 2