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BOROUGH OF WORTHING
DEPOSITED 27.8.09
TP REF NO
WB / 09/0751/FUL

Our ref: PS/PO/EN14195G

25th August 2009

B & W Group Ltd
Dale Road
WORTHING
West Sussex
BN11 2BH

FOR THE ATTENTION OF MR TIM HILL MBIFM - Facilities Manager

Dear Tim

DUST EXTRACTION SYSTEM REFIT – NOISE LEVELS

Further to our recent telephone conversations regarding the expected noise levels which could be emitted from the re-installed filter plant, I would like to clarify how we came to specify the figures submitted earlier.

However, I must point out that the figures stated are purely estimates based upon DCS's and our partners experience and practical testing. If scientifically calculated figures are required we suggest you commission a professional company of noise specialists to calculate the results.

In my earlier communication I suggested that the noise level emitted from the filter plant with all three extraction fans running at maximum duty would be approx. 70dBA, measured 1m from the filter plant. This is based upon three things; firstly, I have spoken at length with our Danish partners who manufacture the equipment and who provided the noise spectrums supplied. They feel the noise level could be about 75dBA but were very reluctant to speculate. Secondly I spoke with our Italian partners who were more forthcoming and suggested the noise level would be in the order of 60 to 65dBA. Lastly, we have been this morning and actually measured a filter plant we installed five years ago which is situated behind our factory. This filter plant is over twice the size of yours and has 6 x 75kW fans blowing into it together with a hogger fan and a conveying fan; all the fans are situated outside their building, sandwiched between the filter plant and the building and are fitted within acoustic enclosures. The noise level 1m from the plant was 74dBA

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I therefore made a conservative judgement and stated yours would be approx. 70dBA. Whereas in practise I think it could be as low as 60dBA and less because your fans will be fitted inside the building and will have inline attenuators also the filtered air is effectively returned into the building via the air handling system. But more importantly, please remember we will be installing our Dynamic Drive Controls which ultimately means the system fans will rarely operate at 100% and as soon as we start to slow the fans down the resultant noise levels drop considerably.

As we have previously discussed if external noise becomes an issue within your area there are several routes B & W can retrospectively take, e.g. fan noise enclosures/screening, lagging the filter plant, etc. etc. I therefore, feel the re-installed filter will have little effect on the existing background noise levels.

I trust the above meets with your requirements; however, should you require any further assistance please do not hesitate to contact me.

Yours sincerely

P Oldfield

Philip Oldfield
Managing Director