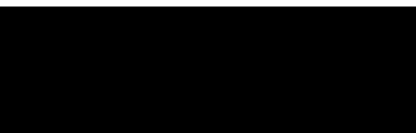


Consultancy Report
Ref: 8479-R01

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**REPEAT BACKGROUND NOISE
SURVEY AT WYETH
PHARMACEUTICALS, HAVANT**

October 2010

8479-R01

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1. Introduction

ISVR Consulting was asked to carry out a background noise survey at Wyeth Pharmaceuticals in order to assess the noise impact of a newly constructed packaging hall on the site.

Noise levels measured in the period 6th – 8th July 2010, subsequent to the construction of the packaging hall, were compared with those gathered in a previous survey prior to the construction of the packaging hall (ISVR Consulting Report No.7882-R02) in order to ensure that the new development complies with the noise requirements specified in the planning conditions.

2. Description of Site

The new packaging hall has been built within the site, at a location overlooking the eastern boundary of the site. A series of 8 measurement locations have been selected in order to monitor the background noise levels along the eastern boundary.

The location of the packaging hall, as well as the background noise survey locations is shown in Figure 1.

As part of the planning conditions imposed on the site, it is a requirement that 'The boundary noise contribution does not exceed 34 dB L_{A90} ' due to operation of the packaging hall.

3. Methodology

In order to assess the boundary noise contribution from the new packaging hall, a series of background noise measurements were carried out along the eastern boundary. During this period the packaging hall was not being used for packaging, however the remaining plant associated with the hall was operating in the normal manner with all air handling plant in operation.

The boundary noise contribution level has been set to ensure that there is no upwards creep in the background noise levels along the site boundary.

The noise level of the packaging hall may often be masked by other noise sources in the vicinity, therefore noise measurements were carried out over the night time period when other noise sources are at their quietest. In some cases it may be possible to confirm the compliance of the packaging hall by measurements, however at other locations it can only be confirmed by comparison with previous survey measurements to confirm that there has been no upwards creep in the background noise level.

For the purpose of this assessment background noise levels were monitored at 8 locations along the site boundary, however only locations 'C', 'D' and 'E' are directly affected by the new packaging hall. The other locations have been included for possible future reference.

The noise measurements were carried out using a Rion NL 31 Logging Sound Level Meter, a Norsonics 121 Logging Sound Level Meter and a Brüel and Kjær 2238 Logging Sound Level Meter. All of these meters were calibrated before and after the measurement period. No significant drift in calibration was observed. This calibration is traceable to National Standards.

4. Noise Measurements

The background noise levels carried out in 2010 have been compared with those measured in 2008 in Figures 2 – 9. These figures compare the background noise level $L_{A90(30mins)}$ over the period 23.00 – 07.00 hrs.

The noise survey results show that for positions A, B and D to F the typical background noise level in the 2010 measurements is significantly lower than the measurements carried out in 2008. For positions C, G and H the 2010 noise levels are similar to the 2008 noise levels.

5. Noise Assessment

The noise survey positions relevant to the operation of the new packaging hall are positions C, D and E.

The minimum noise levels measured at position D and E are 29.8 dB L_{A90} and 31.6 dB L_{A90} . These measurements confirm that the boundary noise contribution due to the packaging hall is at least as low as the measured values, and is below the required level of 34 dB L_{A90} .

The measurements at position C are very similar to those measured in 2008. These results indicate that the noise level at position C is controlled by a noise source other than the new packaging hall. A manned survey of the site found that the noise level at position C is controlled by the noise of air handling units operating on a building located to the north west of the measurement location. The typical noise level at position C during the night time period is 39 dB. The results indicate that there is no increase in the 2008 noise levels, and as such it may be concluded that the noise contribution from the new packaging hall is at least 10 dB below the measured noise level, suggesting that the noise contribution from the packaging hall is 29 dB L_{A90} or lower. This also complies with the planning conditions.

The results of the noise survey indicate that the boundary noise contribution of the new packaging hall complies with the noise conditions required by the planning permission.

6. Conclusions

The results of the noise survey and assessment at Wyeth Pharmaceuticals, Havant are summarised below:

- A boundary noise survey was carried out in order to assess the boundary noise levels following the construction of a new packaging hall on the site.
- It is a requirements of the planning conditions that the boundary noise contribution of the new packaging hall must not exceed 34 dB L_{A90} .
- During the noise survey, the hall was not being used for packaging, however all the air handling plant associated with the building was in operation.
- The boundary noise survey indicates that the boundary noise levels have not increased since the construction of the packaging hall.
- The survey results indicate the boundary noise contribution of the new packaging hall complies with the planning conditions.

Figures

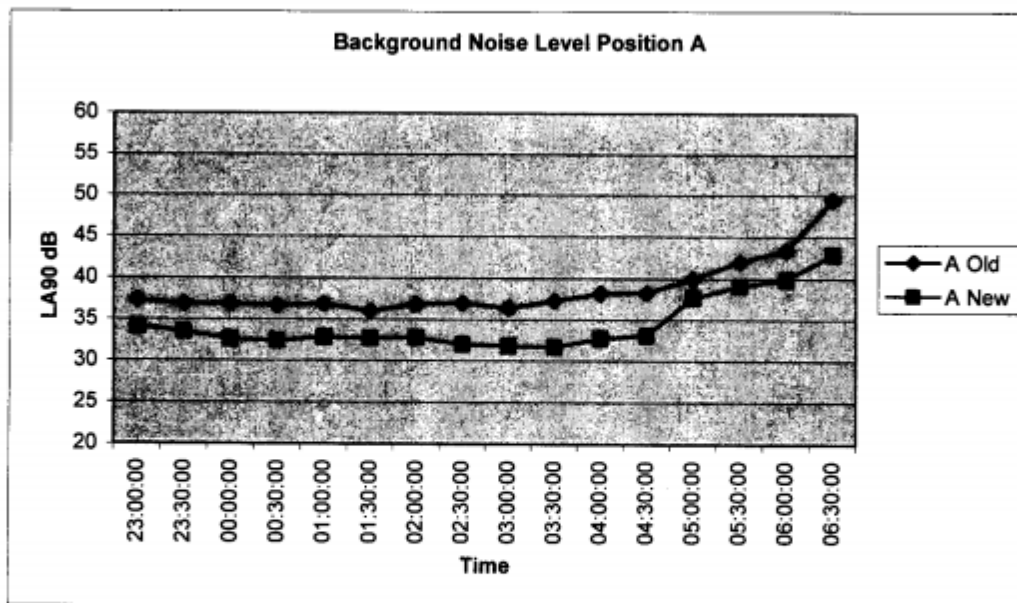


Figure 2 Position A

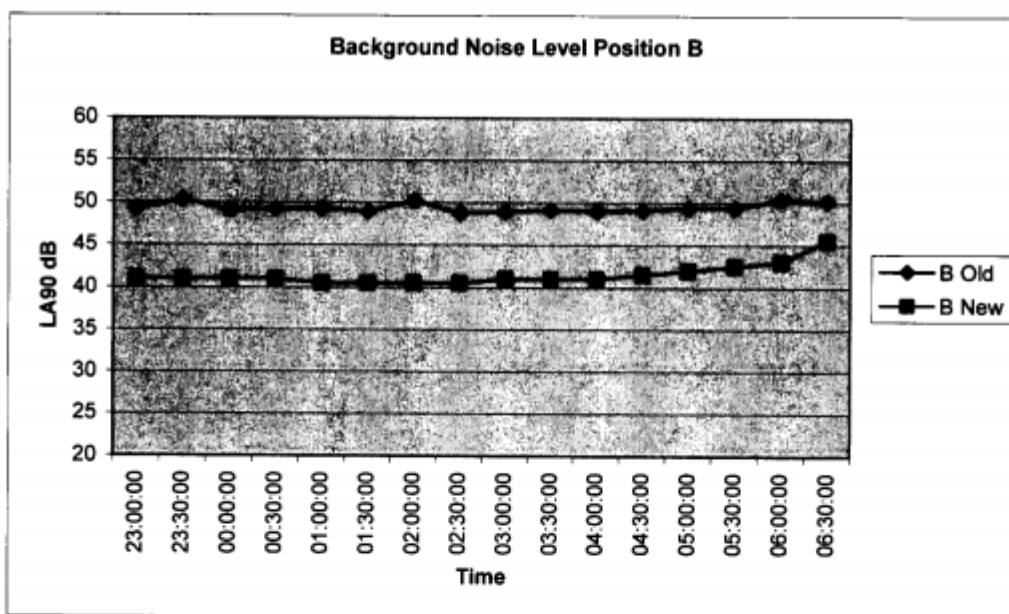


Figure 3 Position B

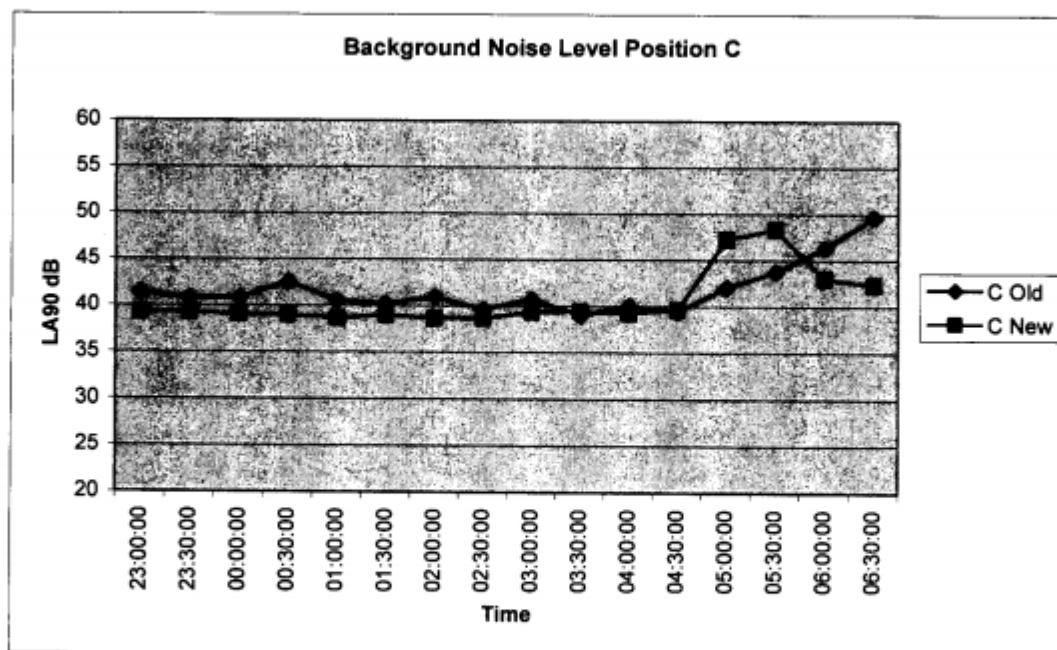


Figure 4 Position C

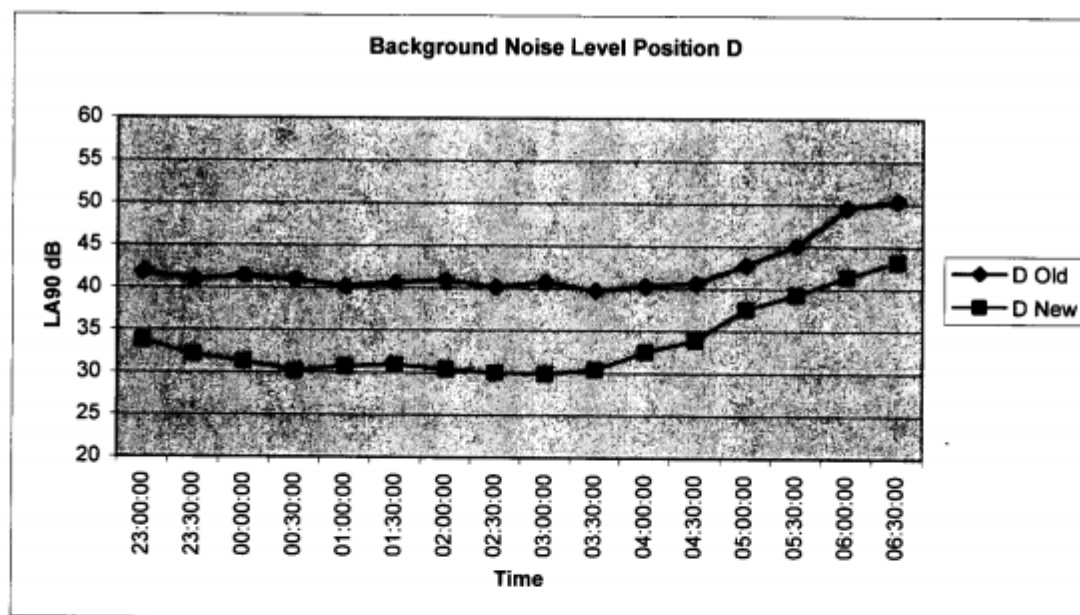


Figure 5 Position D

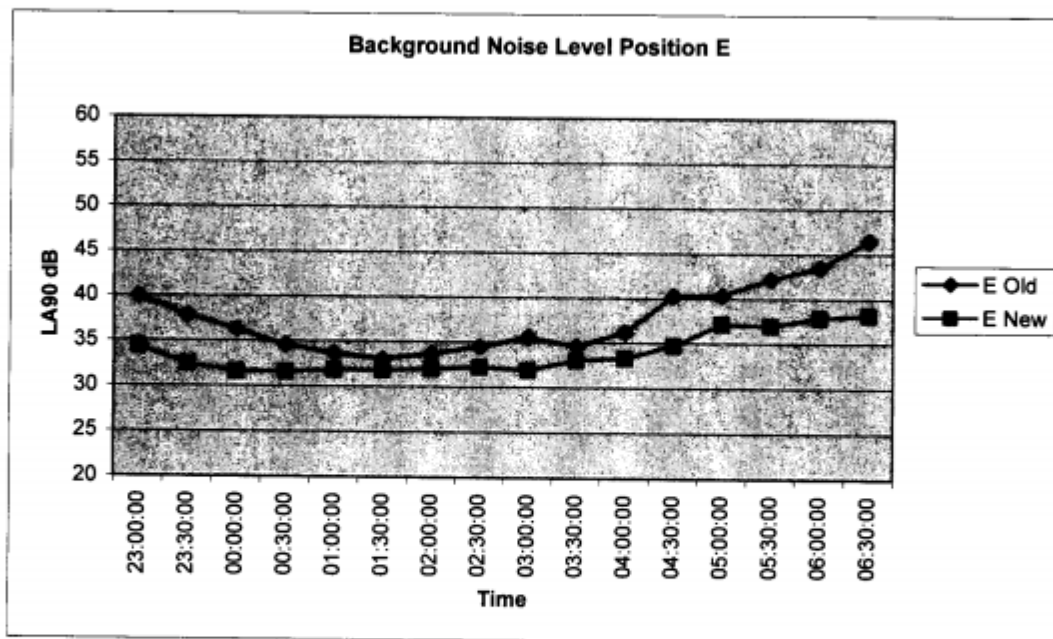


Figure 6 Position E

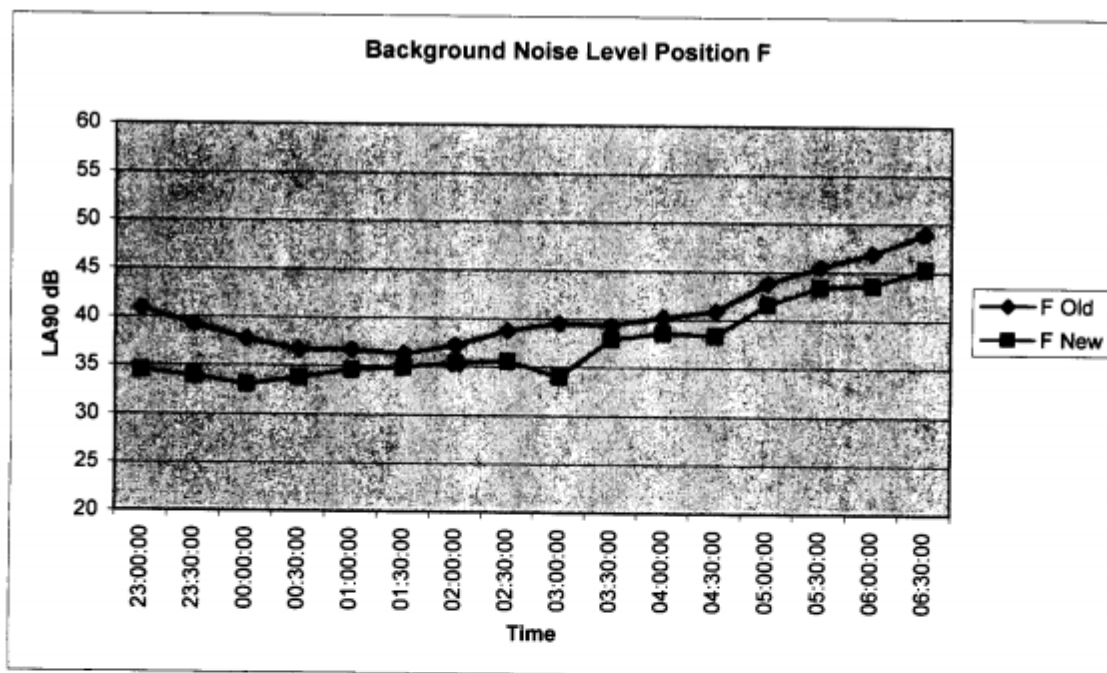


Figure 7 Position F

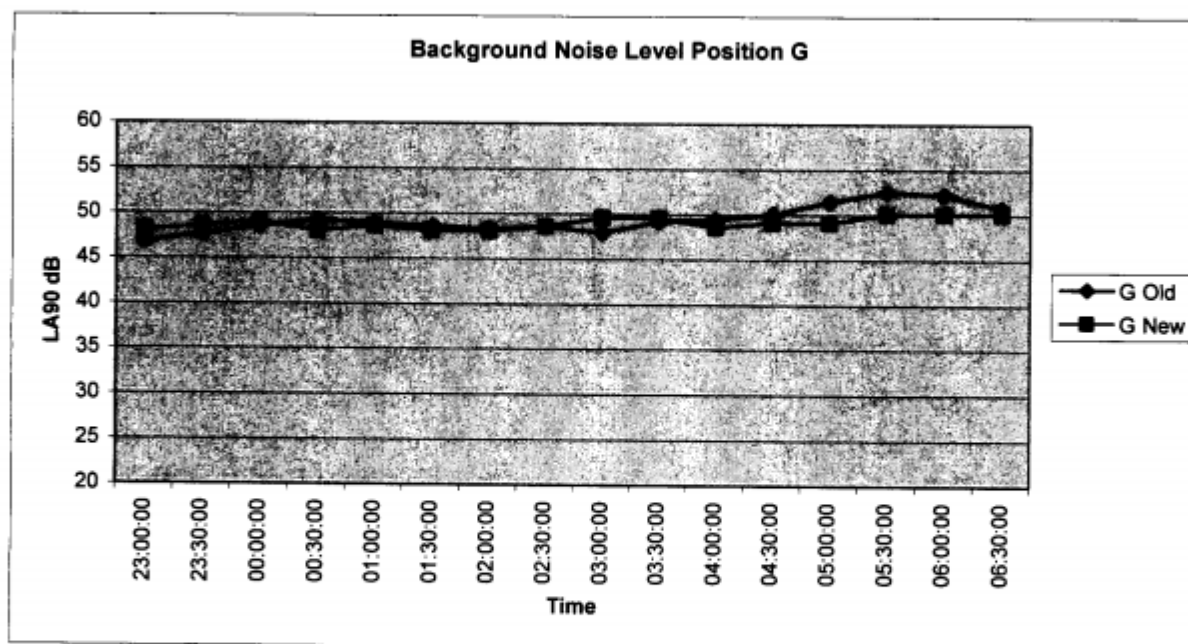


Figure 8 Position G

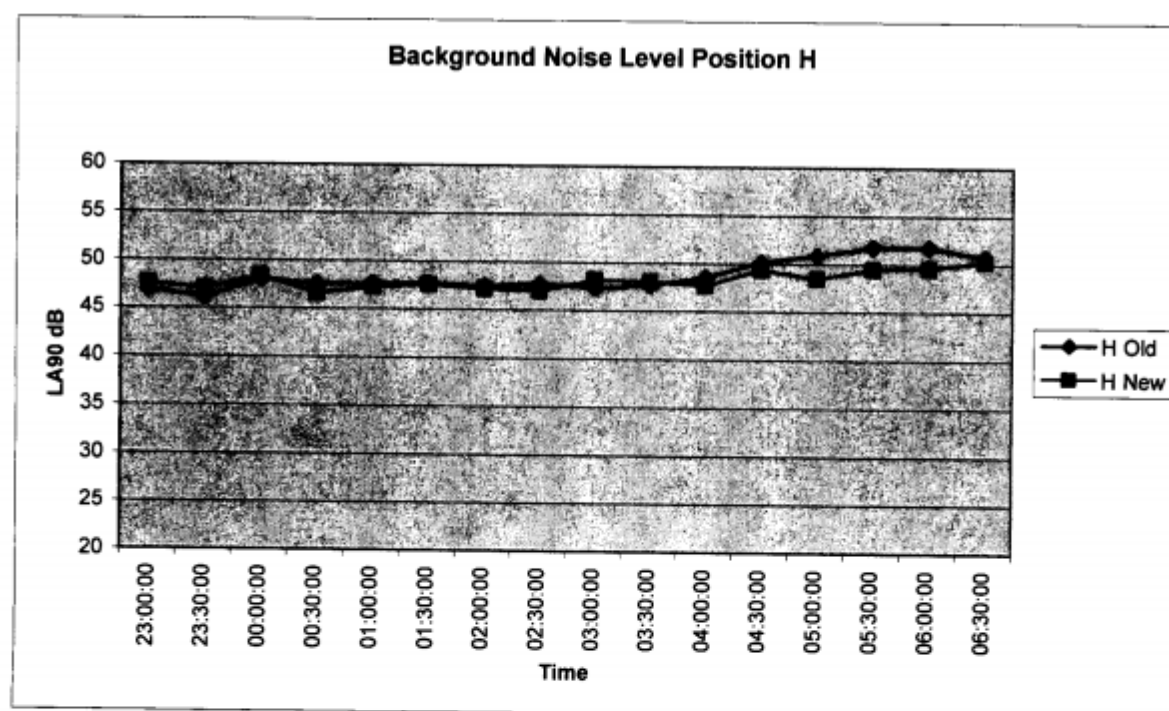


Figure 9 Position H