

Document reference: ECGE B2.9

**PROCESSING OF ANIMAL BY-PRODUCTS TO PRODUCE
TALLOW AND MEAT AND BONE MEAL BY HEATING AND
CENTRIFUGAL EXTRACTION**

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NOISE

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OUR REF: 15/2949/ippc

1. As part of the application for planning permission for a building and other works to accommodate the Installation activity of animal carcass processing and accompanying Directly Associated Activity of electricity generation, a report on the potential impact of noise from the new activities was prepared which included a prior noise survey to establish a baseline.
2. The environmental noise impact report, May 2016, is appended at A, inclusive of Figure 2, illustrating the location of the two closest sensitive receptors, and the Baseline Survey. The report and prior survey was conducted by The Airshed, Specialist Environmental Consultancy for Air Quality, Odour and Environmental Noise.
3. Table 3 of the report provides a Summary of Baseline Sound Levels and provides the measured noise levels at the two sensitive receptors at different periods of the day and night. Table 4 of the report details the various noise sources and their noise levels. Noise from the proposed new building was predicted using a computer based prediction model. The results of the prediction and impact at the two receptors, The Old Barn and New Buildings Cottage, are given in Table 5.
4. The environmental noise report concludes:

“The existing daytime background sound level at the nearest sensitive receptors is 40 dB LA90,T. The rated sound level from the proposed installation during the daytime is predicted to be at least 14 dB below the background at all sensitive receptors with the proposed scheme of mitigation. This is predicted to be of low significance in terms of the assessment framework proposed by BS 4142:2014.

“The impact from the proposed installation is predicted to be at least 5 dB below the existing background in the evening and at night. This is predicted to be of low significance in terms of BS 4142:2014.

“The proposed installation is unlikely to increase ambient noise levels in the vicinity of the proposed installation, so that no cumulative impact is predicted. Noise from the proposed installation is predicted to be well below the WHO night-time criteria intended to prevent sleep disturbance.

“With appropriate mitigation, by containment and specification, noise from the proposed installation is predicted to be < 26 dB LA_r15 minutes at all sensitive receptors at night.”

5. Planning permission, reference NP/DDD/0216/0084, was granted by the Peak District National Park Authority in November 2016. Condition 6 of the permission states:

The development hereby approved shall not be carried out other than in accordance with the recommendations in Table 7 - Proposed Noise Mitigation, produced by “The Airshed Ltd”, dated 13 May 2016, or as otherwise agreed in writing by the Authority. The building hereby approved shall not be brought into use until the measures set out in that table have been implemented.

The building is being constructed in accordance with the requirements of the condition.

6. It should be noted, however, that the environmental noise report prepared by The Airshed assumes conservatively high noise levels of items of equipment. In particular, the boiler was assumed to have a noise level of 95dB_{L_{wa}}, and similarly the generating set; both items are shown in the report to be the highest noise emitting items of plant. The boiler will, however, be a heat exchange boiler and anticipated noise from that item of equipment will be considerably less than the assumed level, which anticipated a conventionally fired boiler. Similarly, the generating set will be provided with its own sound attenuating box and expected noise levels will be lower than the level assumed in the report.