

Dated 2/2/07

Ref, Langstone Farm noise complaint

Dear Mike/ Chris

Thankyou for your hospitality yesterday at Langstone.

Following our conversations with the neighbours and a site reconnaissance I have some recommendations that you may wish to implement.

- Fan Noise
 - Remount fan housing using isolation mounts i.e. rubber mounted; this will prevent the vibrations from expanding through the frame onto the building, which is acting as an amplifier.
 - Insert expanding foam into fan boxes mounted outside, this will bond the sheet steel, which I believe is amplifying the noise.
 - Fit soft starters/ inverters to the starter circuits to prevent excessive torque to the fans when starting. At the moment they are operated using a direct on line starter, which gives maximum torque when starting.
- Poultry related noises.
 - Install acoustic barriers to the boundary to prevent sound travelling. (Details to follow)
 - Install acoustic barriers to the roof of the shed to contain noise escaping from the roof vents.
 - Relocate the site (should be the last option.)

no effect

I have inspected the specification for the 1710 Zeihl fans, which are rated at 55dB at 7m; my conclusion is that at this level of noise any complaints would be minimal. And that if the fans are operating at this level then the shed or fan cowls must be acting as an amplifier. The above solutions should solve the majority of the issues and the first items on the list to address are probably very cost effective.

Best regards

Nigel Youd
Environmental Manager

- Baffles around the fans.
- fans,