

Apologies for the delay in getting back to you. I'm pleased to hear that your client / the supplier will be able to respond to the main points, and that a ducted installation is to be adopted. I think that's by far the most defensible solution. I'll concede the omission of the calculation sheet – I appreciate that there's no accounting for users choices in operation, and for a ducted system I am satisfied that a 24hr duty cycle does provide almost a 12 month lifespan on reasonably conservative estimates of average concentrations. Whilst increasing fan speed will likely reduce the period of filter efficacy for Nitrogen removal, reducing operational hours dramatically increases filter life (to saturation point). I suspect that the assumption of a 95% absorption rate does not directly translate to Nitrogen (I expect a reduced efficiency), and there is significant lee-way in this regard (meeting the health criteria only requires 15-20% removal efficacy. I also recognise the inevitability of users varying the operational fan speed and duty cycle to suit them. The aim of the planning requirement is to ensure that appropriate and reasonable protection / mitigation is in place, not to enforce it's use by the occupants. For these reasons, I do understand the reluctance of the supplier to nail down performance figures.

I'll look forward to receiving the information referenced in due course, and being able to recommend commencement in accordance. As an aside – the units don't have to be in place before commencement, it is only necessary to have approved the scheme (albeit in detail). If your client is pushing for unit installation ASAP as a result of the condition wording, I would point out that the installation and commissioning is under a 'prior to occupation' clause (c.3 pt. ii) – i.e. the LPA can permit commencement in accordance with an approved scheme (a partial condition discharge), and occupation of completed units will be in accordance with the condition provided that the units have been commissioned prior to the occupation date.

Hope that makes sense –

Best Regards,

Jon

Jonathan Driver
Environmental Control Officer