

Clark, Wayne

From: Graeme Outridge <graeme@wisergroup.co.uk>
Sent: 16 June 2023 19:50
To: Gosling, Laura
Cc: Jamie Williams (dfsolutions); Mark Harkin (dfsolutions); Kurtis Kenny
Subject: Fernbrook Bio Ltd - EPR/EP3894SC - we need more information

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Laura,

As promised, I have reviewed and amended the NTS, ERA, OMP & BAT Assessment for the above application to incorporate the proposed changes to the odour abatement systems for the reception building and the rest of the site. I have also taken the opportunity to correct a couple of minor discrepancies within the documents and update the references to the latest appropriate guidance since my original submission in July last year.

In summary, all tanks and vessels will now be sealed and be connected to one of two separate activated carbon filtration systems. Both revised systems are fully BAT compliant; with residence times of at least 3 seconds, a minimum of 3 air changes per hour and appropriately sized filter vessels. The previously operated Terminodour and thermal oxidiser systems will be decommissioned and removed. The vented gases from the new pasteurisation unit will be directed to the digesters and blended with biogas prior to desulphurisation and combustion in the CHPs.

The reception building will be converted to negative pressure and the extracted air will be treated via a dedicated activated carbon filtration system. The extracted air from the replacement buffer tanks will be pre-treated in a separate biofilter before passing through activated carbon filtration (along with the extracted air from all other process areas). Both systems will discharge through a single 12 m high stack (Stack 2), a new point source emission. Following installation and commissioning later this year, performance testing and modelling, if necessary, will be undertaken in line with IC9. The submission deadline for which will now need to be delayed until next year.

[Fernbrook Bio - Amended Application documents](#)

The revised designs are a culmination of several month's work between the operator and the specialist equipment supplier, Exeon, whom have significant experience in designing, building and commissioning similar systems on AD plants in the UK and Europe. The operator is confident that the proposed systems are a significant improvement on the current setup and constitute BAT for odour abatement.

I look forward to receiving confirmation that the revised documents meet your requirements. Should you have any issues with accessing the link above, I can resend next week.

Best wishes,

Graeme Outridge
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