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Planning Ref H17-1097-23
Proposed plant based protein extraction facility and anaerobic digestor plant
Land East Of Surfleet Bank And West Of Woad Farm Surfleet Spalding

Statement on Odour Control Rev A

The following statement has been provided by Waste Powers Ltd, Naylor Farms Consultant delivering the Anaerobic Digestor Plants at both Rangell Gate and Surfleet

Waste Powers Limited recognise that odours can create negative perception of AD facilities by communities, which may impact on the long-term viability of facilities. There are AD sites which cause problems – these tend to be poorly designed and managed plants. In these plants odours may arise from the waste reception and handling area, from open top tanks, from pressure relief valves, condensate handling and storage of the products.

The potential for odour therefore needs to be assessed and managed carefully with each new facility.

Odour control is a key requirement for acquiring and keeping an Environment Agency permit to operate the AD plant. If we don't control odours there is the possibility of losing our EA permit and therefore our ability to generate revenue.

Odour minimisation and management is designed in from the start of the build.

The AD plants will operate in a closed system – waste will be received in a well-designed reception handling area designed to minimise odour release. The waste will then be pumped through to the digesters and after-digesters in a closed system. Methane generated through the process will be injected into the local gas network, CO2 will be liquified and transported to local food production companies, other gasses will be scrubbed using appropriate techniques. Digestate will be processed on site in a closed system with the product being a stable material.

A technical description of the Odour removal from the 3 potential sources, The Reception Hall, Digestate Processing Hall and Mixing Tanks is provided by Centriair AB within the attached document.

The EA regulations look at odour risk and require the following to be adhered to reduce risk of odour release – we will adhere to all aspects of this:

- an odour management plan is required
- fugitive emissions are not permitted
- all waste reception areas and storage areas will be in enclosed or covered with a designed and monitored air extraction system where the air is treated and abated to reduce odours and other gaseous compounds
- all channelled emissions will be treated before release
- operators will take additional measures to ensure ammonia release is controlled
- fugitive source emissions of biogas shall be minimised by implementing a leak detection and repair programme
- all appropriate measures and Best Available Techniques shall be implemented

- stored digestate will be stable
- all storage tanks, lagoons, digestate and contaminated water will be covered
- all abatement systems are designed, monitored and maintained to treat specified emissions and off-gases

Fly Control

There will be minimum opportunity for flies to enter the building and replicate. From the reception hall there will be a rapid turnaround of feedstock – with low residence time with clean surfaces. In addition the building will have a door system in place to keep odours in and flies out of the building. Inside the building Electric Fly Killers will be installed to eradicate any flies that do enter the building.

Waste Powers