

Omega Proteins Ltd.

Penrith

Report Title: Environmental Permit Variation Application – Changes to Processing Lines

Permit: EPR/HP3238AF

Issue Date: Sept 2022

Submitted to:

Environment Agency

Authorised for issue by:

Group Technical Advisor

Report Reference: Non Technical Summaryv2.0

Process Description

The site is currently permitted by the Environment Agency as an A1 Installation and a variation application is also being submitted for changes to the rendering operation by updating the following processes:

- the production of different types of single species meal (processed animal protein – PAP)
- upgrade of the poultry offal rendering line, upgrading of the site with new equipment in a purpose built location for an existing permitted activity

The Directly Associated Activities are also changing in order to ensure that supporting services, such as odour abatement and finished product storage, are adequate for the planned changes.

Technical information to support the application is submitted in the following documents:

- Installation Information
- Updated Environmental Risk Assessment
- EMS summary
- BAT summary
- Site maps showing the location of the equipment
- Updated Odour Management Plan

The site is currently permitted for mixed species rendering, poultry rendering and feather processing. There is a growing demand for single species (e.g. pork, lamb) raw materials for the pet food market following tightened rules on labelling of the finished product. Further opportunities have also been presented post-Brexit, with new customers in different countries. To enable the production of pork meal and lamb meal, these raw materials need to be selected out of the current mixed species stream and processed separately to avoid any cross contamination. One of the processing lines will also be able to process pig hair or lamb fleece (separately from the meat and offal fractions) to enable more effective protein extraction from this raw material.

In addition to these lines, the development of the site also includes setting up of poultry processing in a new building, giving the benefit of improved building integrity, ease of maintenance and improved odour controls. New processing plant will be installed, incorporating improved processes for efficiency of production and a reduction in environmental impacts.

The changes cover the same Listed Activity (Section 6.8 Part A (2) (a)) and the same raw materials as already processed at the site, therefore this is not a 'significant' change to the current site activities.

Potential Emissions and Control

Air Emissions

The point sources are related to odour abatement and the existing combustion plant emissions. These are monitored in accordance with the relevant guidance.

Odour

The installation collects and treats odours in accordance with government issued guidance for the industry. High intensity process odours are treated by thermal oxidisation and lower intensity odours (room air) using biofilters and/or scrubbers.

Noise

The processing equipment, fans and conveyors associated with the new processes are potential noise sources. All processing equipment will be contained within a building to minimise the impact on external sensitive receptors.

Vibration

The system does not use equipment that will have sufficient power to generate vibrations that could be felt beyond the installation boundary.

Dust

All operations involving dusty materials are enclosed to minimise potential releases.

Water

Incoming mains and borehole water is monitored.

All effluent and potentially contaminated yard water is treated in the effluent treatment plant.

Waste

No new waste streams will be produced from the processing operations.

Raw Materials

No new changes to the raw materials used on site.

Management

Site is accredited to the international Environmental Management System standard ISO 14001:2015 and has suitable management plans and procedures in place to ensure compliance to the standard and with the permit requirements for General Management.