

Arla Foods Limited, Lockerbie

PPC/A/1003148/VAR01

Non-Technical Summary:

A permit was initially issued to ARLA Foods Limited on the 21 March 2007 for the treating and processing of milk with quantities greater than 200 tonnes per day.

This variation application has been submitted to SEPA for addition of a new AD plant, Effluent Treatment and Combined Heat & Power system to the existing installation. This will allow on-site treatment of all indigenous effluent as well as whey permeate which is currently moved of site as a waste or waste by-product. The changes will result in an energy reduction of approximately 1641 MWh per annum and the generation of biogas which will be injected as biomethane into the National gas grid.

The changes to the installation introduce three new activities under the Pollution Prevention and Control (Scotland) Regulations 2012:

- Section 1.1 Part B (d) - Burning fuel in a medium combustion plant with a net rated thermal input equal or greater than 1 megawatt.
- Section 5.4 Part A (b)(i) - Recovery or a mix of recovery and disposal of non-hazardous waste at an installation with a capacity exceeding 75 tonnes day (or 100 tonnes per day if only waste is anaerobic digestion) by biological treatment.
- Section 5.7 Part A – Independently operated treatment of wastewater not covered by the Urban Wastewater Treatment (Scotland) Regulations 1994 and discharged by an installation carrying out any other Part A activity.
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The variation therefore deals with the following:

- Installation of a new 2 X 1.5 MWth input natural gas engines
- Upgrade and replacement of existing effluent treatment plant
- Installation of 2 Anaerobic Membrane Bioreactors
- Changes to the internal routing of uncontaminated surface water through the effluent and biogas treatment construction phases
- Update to description of the milk and cheese process and operating techniques to reflect current operations.
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The application has addressed potential impact to the environment from the proposed changes to demonstrate no significant negative effects on the environment or human health. There are no additional point source releases proposed which may lead to pollution of soil or groundwater. The operator will continue to comply with the discharge emission limit values as currently detailed in permit with more stringent Emission Limit Values applied for compliance with FDM BRef BAT conclusions. Dispersion modelling of emissions to air, a noise assessment and an updated Site report have been submitted within the application document. The variation will include addition of emission limits for combustion gases to meet the requirements of the Medium Combustion Plant Directive.