

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Sarval (Hartshill) Limited
Hartshill Rendering Plant
Mancetter Road
Hartshill
Warwickshire
CV10 0TA

Variation application number

EPR/BS5959IE/V006

Permit number

EPR/BS5959IE

Hartshill Rendering Plant

Permit number EPR/BS5959IE

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

The permit has been reviewed against the requirements of the Medium Combustion Plant Directive (MCPD) for 2025, and relevant conditions have been added.

The schedules specify the changes made to the permit.

Changes made in this variation (V006):

- Direct Conveyance of Oversize Product (meal) to the Meal Store via closed conveyance system to reduce manual handling and vehicle movements onsite.
- Removal of chemical scrubber No. 2
- Installation of two bio filters in duty/ standby arrangement
- Standby aeration system (tank no.4) for the Effluent Treatment Plant
- Cooling systems for the aeration tank
- Degumming process for tallow
- Non-condensable gases connected into the thermal oxidiser

Installation background and summary:

The facility is an animal by-products (ABPs) rendering processor, which accepts predominantly Category 3 ABPs. The process involves size reduction, evaporation of water and sterilisation of animal by-products to produce meat and bone meal (MBM), and tallow. Category 3 ABP's arise from material which has previously been passed fit for human consumption.

Up to 250,000 tonnes of raw materials per year (ABPs) are delivered onto site in dedicated vehicles. All vehicles delivering animal by-products are either fully enclosed vehicles, sheeted bulk tipper trailers or skip wagons.

Raw materials arriving at the site are directed to the Raw Material Reception Building where their contents are tipped directly into one of three receiving hoppers. Raw material waiting to unload is kept in covered vehicles until directed to the Raw Material Reception Building. All vehicles and containers are hosed out within the Raw Material Reception Building before being cleaned in the trailer wash area.

From the raw material receiving hoppers the material is screw conveyed to the crushers and reduced down to a particle size of 30mm. The crushed material can then be pumped to Drier A, Drier B and the pre-evaporation plant via the feed control bin. The pre-evaporation plant further reduces particle size down to 20mm prior to pre-heating and pre-pressing to separate water, fat and solids. Moisture is removed from the raw material indirectly by the steam provided by the three boilers or waste heat from the site driers. Boilers include 1x8.88MWth and 2x9.51MWth thermal input and are natural gas fuelled.

The pre-evaporation plant reduces the moisture content of the feed to the driers by utilising their waste heat thereby reducing energy use per tonne processed. Driers A & B and the pre-evaporation plant can process raw materials at a maximum combined rate of 47 tonnes per hour.

Moisture evaporated off from the raw material drying processes is condensed via air cooled condensers and cooling towers before treatment in the effluent treatment plant and discharged to sewer.

The sterilised product is conveyed from Driers A & B to the press system where the liquid (tallow) and solid (MBM) are separated. The tallow is settled and filtered then stored in the tallow farm tanks prior to despatch off-site in road tankers for further uses such as biodiesel or renewable energy production.

The MBM is cooled, ground and conveyed to storage silos prior to being loaded into dedicated trailers. Loaded trailers can then be dispatched off-site for use in petfood production, for example, or unloaded in the Meal Storage Building prior to sale.

High strength odours from process equipment are treated in the Regenerative Thermal Oxidiser (RTO). Non-Condensable gases from the Air Condensers are treated in the steam boilers, with both providing standby capability. An acid-dosed scrubber followed by Carbon Filter (the PASCFC system) is also available to treat odour.

Air from the entire building envelope is extracted to Scrubbing Towers 1 and 3 where it is treated with 'scrubbing' liquids; sulphuric acid, caustic liquor and sodium hypochlorite, in addition to treatment through biofilters, before being discharged to atmosphere.

The site operates an Environmental Management System accredited to ISO 14001.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application EPR/BS5959IE/A001	Received 27/08/2004	--
Additional information received	Received 30/03/2006	--
Schedule 4 Notice issued on 09/03/2006	Response received on 30/03/2006	--
Additional information received	Received 22/06/2006	--
Permit issued EPR/BS5959IE	12/07/2006	--
Variation application EPR/BS5959IE/V002	Received 28/08/2007	--
Variation issued	27/09/2007	--
Variation application EPR/BS5959IE/V003	Duly made 11/06/2013	--
Variation issued	27/08/2013	--
Notification of change of company name	Received 06/03/2014	The company name has been changed from DeMulder & Sons Ltd to Sarval (Hartshill) Limited.

Status log of the permit		
Description	Date	Comments
Variation application EPR/BS5959IE/V004	Received 06/03/2014	See Introductory Note above.
Request for Further Information 11/04/14	Duly Made 28/04/2014	Receipt of requested information.
Schedule 5 Notice served	Issued 28/05/2014	Receipt of final complete response 06/06/2014
Schedule 5 Notice served	Issued 02/07/2014	Receipt of final complete response 29/07/2014
Schedule 5 Notice served	Issued 08/08/2014	Receipt of final complete response 04/09/2014
Variation determined EPR/BS5959IE	12/09/2014	Varied and consolidated permit issued in modern condition format.
Application EPR/BS5959IE/V005 received 15/09/2023	Returned 08/11/2023	Variation application returned due to lack of information provided.
Application EPR/BS5959IE/V006 (variation and consolidation)	Regulation 61 Notice response received 30/07/2024	Environment Agency initiated variation and consolidation following Medium Combustion Plant permit review.
Application EPR/BS5959IE/V006 (variation and consolidation)	Duly made 04/10/2024	Application to vary and update the permit to modern conditions.
Variation determined and consolidation issued EPR/BS5959IE	04/06/2025	Varied and consolidated permit issued in modern format

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/BS5959IE

Issued to

Sarval (Hartshill) Limited (“the operator”)

whose registered office is

Ings Road

Ings Road

Doncaster

South Yorkshire

DN5 9TL

company registration number 00656996

to operate a regulated facility at

Hartshill Rendering Plant

Mancetter Road

Hartshill

Warwickshire

CV10 0TA

to the extent set out in the schedules.

The notice shall take effect from 04/06/2025

Name	Date
Beccy Brough	04/06/2025

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of an Environment Agency initiated variation:

Table S1.1, as referred to in condition 2.1.1, has been updated to include updated wording for the description of the specified activities, rewording and renumbering of DAAs, and details on the MCPs on site – in line with modern templates.

Table S3.1, as referred to in conditions 3.1.1, 3.5.1 and 3.5.4, has been updated to include the MCPD requirements for boilers 1 – 3 (A4, A5 and A7)

Table S4.3, as referred to in condition 4.2.2, has been updated to include standard reporting for performance parameters in line with standard modern templates.

Schedule 6, as referred to in condition 4.4.1, has been updated to include additional references such as MCP, etc.

The following conditions were varied as a result of the application made by the operator:

Condition 3.5.1 has been updated to include reference to table S3.4

Table S1.1, as referred to in condition 2.1.1, has been updated to reflect the changes to odour abatement on site.

Table S1.2, as referred to in condition 2.3.1 and 2.3.2, has been updated to include the updated documents.

Table S1.3, as referred to in condition 2.4.1, has been updated to note that IC7 is complete and to remove IC4 and IC5 to reflect that these were previously marked as complete.

Table S3.1, as referred to in condition 3.1.1, 3.5.1 and 3.5.4, has been updated to reflect the removal of Scrubber No.2 (A2), and the addition of Biofilter 1 and Biofilter 2 (A12).

Table S3.4, as referred to in condition 4.2.2, has been added to include process monitoring for the new biofilters.

Schedule 7, as referred to in condition 2.2.1, has been updated to include the updated emission points.

The following conditions were added as a result of an Environment Agency initiated variation:

Condition 3.1.3 – as this is a standard condition for all IED installations.

Condition 3.1.4 – as this is a standard condition for any sites which have MCPs.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BS5959IE

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BS5959IE/V006 authorising,

Sarval (Hartshill) Limited (“the operator”),

whose registered office is

**Ings Road
Ings Road
Doncaster
South Yorkshire
DN5 9TL**

company registration number 00656996

to operate an installation at

**Hartshill Rendering Plant
Mancetter Road
Hartshill
Warwickshire
CV10 0TA**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Beccy Brough	04/06/2025

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 2 table(s) S2.2 and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

- (a) the nature of the process producing the waste;
- (b) the composition of the waste;
- (c) the handling requirements of the waste;
- (d) the hazardous property associated with the waste, if applicable; and
- (e) the waste code of the waste.

2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.
- 3.1.4 For the following activities referenced in schedule 1, table S1.1 (AR3) the first monitoring measurements shall be carried out within four months of the issue date of the permit or of the date when the MCP is first put into operation, whichever is later.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The odour levels at any point on the installation boundary shall not exceed $1.5\text{OU}_E/\text{m}^3$.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1, S3.2 and S3.3; and
 - (b) process monitoring specified in table S3.4.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2, and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
 - (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and

- (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	Section 5.4 Part A(1)(a)(i)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving biological treatment.	From generation of wastewater to treatment in the on-site effluent treatment plant, and discharge to sewer. Excluding domestic sewage treatment and discharge.
AR2	Section 6.8 Part A(2)(a)	Disposing of or recycling animal carcasses or animal waste by rendering at pant or in a small waste incineration plant, where the plant or small waste incinerator plant has a treatment capacity exceeding 10 tonnes per day of animal carcasses or animal waste or both in aggregate.	From receipt of raw material to storage and dispatch of finished product. Treatment includes crushing, heating and drying of imported raw material to produce and separate substances suitable for disposal or recovery off- site.
Directly Associated Activity			
AR3	Steam supply	<u>Medium Combustion plants:</u> 1 x 8.88MWth boiler 2 x 9.51MWth boiler The three boilers are natural gas fired boilers with a total aggregated thermal input of 27.9 MWth	From receipt of fuel to release of products of combustion to air.
AR4	Raw material storage and handling	Storage and handling of raw materials at the installation	From receipt of raw materials to dispatch of final product.
AR5	Storage and use of chemicals and oils	Storage and use of chemicals and oils at the installation.	From receipt of chemicals and oils to disposal of wastes arising.
AR6	Waste storage and handling	Storage and handling of waste materials	From generation of waste to storage pending removal for disposal or recovery.
AR7	Odour Abatement	Abatement of emissions to air from rendering activities; associated buildings; product and raw material storage buildings, via scrubbers, boilers, biofilters and Regenerative Thermal Oxidiser (RTO).	From odorous activities, treatment of odorous gases.
AR8	Vehicle Washing	On-site washing and cleaning of vehicles.	From receipt of vehicles on site until discharge of the wastewater.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to Section B2 of the Application Form given in section B2.1 to B2.11 inclusive of the Application including the additional information received on the 23 January 2006 and 22 June 2006.	27/08/2004
Application for variation EP3931UM (EPR/BS5959IE/V002)	The response to Section C2 of the Application Form given in Sections C2.1 to C2.11 inclusive of the Application for variation dated 23 August 2007.	28/08/2007
Application for variation EPR/BS5959IE/V003	The response to question 3 in application form C3. Variation application supporting information for forms C2 and C3.	11/06/2013
Variation Application EPR/BS5959IE/V004	The response to questions 2b, 5c,5a in part C2 of the application form. Table 3, Table 4, Table 5, and responses to questions 4 and 6 in part C3 of the application form . “Proposed Changes” section and Section 3 of supporting document “Application for a Variation to PPC Permit EPR/BS5959IE/V004”. Section 4 of the “Response to request for further information dated 11 th April 2014” document.	28/04/2014
Response to Schedule 5 Notice (served on 28/05/2014).	Response to Question a)	09/06/2014
Response to Schedule 5 Notice (served on 08/08/2014).	Response to Schedule 5 Question a)	04/09/2014
Variation Application EPR/BS5959IE/V006	Parts C2 and C3 of the application and the supporting information supplied with these parts.	Duly made 04/10/2024

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC7	The operator shall submit a proposal to the Environment Agency for an emission monitoring programme relating to emissions to air from the Regenerative Thermal Oxidiser (RTO) for the following parameters: oxides of nitrogen; oxides of sulphur; carbon monoxide and volatile organic compounds.	Complete

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Tallow	Meeting the 'End of Waste' standard as agreed with the Environment Agency in the letter dated 11/11/2013, reference DOW130706

Table S2.2 Permitted waste types and quantities for use in the production process	
Maximum quantity	Maximum annual process limit of 250,000 tonnes/yr
Waste code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 02	animal-tissue waste
02 02	Waste from the preparation and processing of meat, fish and other foods of animal origin
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method (Note 1)
A1 on site plan in Schedule 7	Scrubber Tower Number 1	No parameters set	No limit set	--	--	--
A3 on site plan in Schedule 7	Scrubber Tower Number 3	No parameters set	No limit set	--	--	--
A4 on site plan in Schedule 7	Boiler 1 8.88MWth fired on natural gas	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14792
		Carbon monoxide	150 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 15058
	Boiler 1 8.88MWth fired on tallow	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	450 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14792
		Carbon monoxide	150 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 15058
		Sulphur dioxide	350 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14791
		Particulates	30 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 13284-1
A5 on site plan in Schedule 7	Boiler 2 9.51MWth fired on natural gas	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14792
		Carbon monoxide	150 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 15058
	Boiler 2 9.51MWth fired on tallow	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	450 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14792
		Carbon monoxide	150 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method (Note 1)
						BS EN 15058
		Sulphur dioxide	350 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14791
		Particulates	30 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 13284-1
A7 on site plan in Schedule 7	Boiler 4 9.51MWth fired on natural gas	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14792
		Carbon monoxide	150 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 15058
	Boiler 4 9.51MWth fired on tallow	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	450 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14792
		Carbon monoxide	150 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 15058
		Sulphur dioxide	350 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 14791
		Particulates	30 mg/m ³ (Note 2)	Periodic	Bi-annual	MCERTS BS EN 13284-1
A11 on site plan in schedule 7	Regenerative Thermal Oxidiser	No parameters set	No limit set	--	--	--
A12 on site plan in schedule 7	Bio bed extractor	No parameters set	No limit set	--	--	--

Note 1: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 6% for solid fuels, 15% for engines and gas turbines and 3% all other MCPs.

Note 2: MCP ELV's will only apply when boilers are not incinerating concentrated odours.

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 discharge to soakaway via swale as shown on site plan in schedule 7.	Uncontaminated storm water drainage; adjacent to Meal Store - discharge to swale	No parameters set	No limits set	--	--	--
W2 discharge to soakaway via swale as shown on site plan in schedule 7	Uncontaminated storm water drainage; Access road -- discharge to swale	No parameters set	No limits set	--	--	--

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 Discharge to foul sewer as shown on site plan in schedule 7	Discharge from the Effluent Treatment Plant; MBM Cooling Tower overflow; boiler blowdown; Scrubbing Tower overflow	No parameters set	No limit set	--	--	--

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method [Note 1]	Other specifications [Note 2]
Biobed of Biofilters 1 and 2	Media pH	Monthly	--	Core sample to established methodology [Note 3]
	Moisture content	Monthly	--	--
	Residence time	Periodically calculated	--	--
	Media inspection	Daily	Visual inspection	No compaction, pooling or dry spots

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method [Note 1]	Other specifications [Note 2]
	Functioning of water sprays (irrigation system)	Daily (when operating)	Visual inspection	Fully operational to provide adequate coverage
<p>Note 1: Unless otherwise specified, all monitoring is to be undertaken to an appropriate standard in accordance with condition 3.5.3</p> <p>Note 2: All monitoring and inspections are to be recorded and documented in accordance with condition 3.5.2 and retained for inspection by the Environment Agency.</p> <p>Note 3: To be agreed in writing by the Environment Agency</p>				

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Point source emissions to air Parameters as required by condition 3.5.1	A4, A5 & A7	Every 6 months	01 January, 01 July

Table S4.2: Annual production/treatment	
Parameter	Units
Total raw materials received and processed	tonnes
Electrical energy used on installation	kWh
Steam used on installation	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Waste – recovery/disposal routes	Annually	tonnes
Other performance parameters	Annually	tonnes per production unit

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Pests” means Birds, Vermin and Insects.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels ; and/or

in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



END OF PERMIT

Permit number
EPR/BS59591E