

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Arla Foods Limited

Stourton Dairy
Pontefract Road
Hunslet
Leeds
LS10 1AX

Variation application number

EPR/BU0591IA/V007

Permit number

EPR/BU0591IA

Stourton Dairy

Permit number EPR/BU0591IA

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. All the conditions of the permit have been varied and are subject to the right of appeal.

This consolidated permit has been issued following a full review against the best available techniques (BAT) conclusions for the Food, Drink and Milk Industries published on 4th December 2019 in the official journal of the European Union.

We have implemented the requirements of the Medium Combustion Plant directive and incorporated post-dated requirements for 2030 in relation to Boilers A1, A2, and A3 these are considered as “existing” for the scope of MCPD. CHP’s A4 and A5 are considered “new” MCPs under MCPD.

The schedules specify the changes made to the permit.

Stourton Dairy processes around 2,318 tonnes of milk per day, creating bottled milk and cream/milkshake products. The site is operational 24 hours a day, 365 days per year. The site is centred on nation grid reference SE 33226 29867 and is located near to Junction 44 on the M1/M621 at Stourton, Leeds. It is approximately four miles South from Leeds city centre.

Raw milk is delivered to site via road tankers and transferred to milk silos. The milk is then centrifuged to separate the cream and skimmed milk and then passes onwards to a bactofuge to separate out bacteria. Separated cream is homogenised back into the milk dependent upon the product type (full cream, skimmed or semi-skimmed milk). Homogenised milk is then pasteurised, cooled, and stored in silos. Excess cream is pasteurised, cooled, and stored in silos for use in the creamery with excess volumes sent off-site via road tanker. Cooled pasteurised milk is then bottled on site for final distribution. A Third party produces blow-moulded bottles within the Arla site, but this operation is not considered part of the installation. The milk dairy operates lines of fermented milk products, creams, and alcohol creams together with other added value products. Pasteurised skimmed milk and cream is sent to buffer tanks and held until a batch of product is required. The addition of ingredients including powders, alcohols, dressings, and flavourings also takes place. Product is batched made and packed into pots before entering the fridge via an automated pallet handling system. Some products require blast chilling prior to dispatch.

The site operates two CHP plants, A4 and A5 each with a thermal input of 5.986 MWth, that are defined as “new” medium combustion plants (MCP) under the Medium Combustion Plant Directive. In addition, there are three boilers used for steam generation, A1 and A2 with a thermal input of 4 MWth, and A3 with a thermal input of 2.995 MWth; these are used in the production processes and for cleaning purposes. Boilers A1, A2 and A3 are defined as “existing” medium combustion plants (MCP) under the Medium Combustion Plant Directive. The Boilers emit to atmosphere through the emission points A1, A2, and A3 via a common stack, while the CHPs emit to atmosphere through emission points A4 and A5 also via a common stack. Both the Boilers and the CHPs are fired via an uninterrupted supply of natural gas.

Effluent from the creamery enters dedicated drains and into a sump before entering the dissolved air flotation (DAF) plant to remove fats, oils, and greases (FOG). Effluent from the original site then combines with the creamery effluent where flocculent and coagulant chemicals are added to reduce. Chemical Oxygen Demand (COD) to ensure compliance with the Yorkshire Water effluent consent and discharged via emission point S1.

Uncontaminated surface run-off water is discharged in the same sewer via emission point S2. There are no releases to land, groundwater, or direct discharges to controlled waters.

There are no Sites of Special Scientific Interest (SSSI) within 2Km of the site. There are no protected European habitats with 10Km of the site.

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 received EPR/BU591IA/A001 | Duly made 28/11/2003 | Application received for the treatment and processing of milk |
| Additional information received | 11/03/2004 13/03/2004 15/03/2004 17/03/2004 | General application questions Confirmation of site boundary Amended site drainage plan |
| Permit determined (BU0591IA/A001) | 28/05/2004 | Original permit issued to Arla Foods Limited |
| Application Variation BU0591IA/V002 | Duly made 27/07/2005 | |
| Application determined BU0591/V002 | 15/08/2005 | Varied permit issued |
| Application Variation EPR/BU0591IA/V003 | Duly made 04/01/2007 | |
| Variation determined EPR/BU0591IA/V003 | 25/05/2007 | Varied permit issued |
| Application Variation EPR/BU0591IA/V004 | Duly made 15/05/2009 | Addition of new production areas, modification of the site boundary, installation of ETP |
| Additional information received | 15/09/2009 25/09/2009 28/09/2009 | Introductory note; effluent discharge controls; odour and noise control measures; secondary/tertiary treatment and sludge volume reduction; assessment of air emissions. |
| Variation determined EPR/BU0591IA/V004 | 02/11/2009 | Varied permit issued |
| Application Variation EPR/BU0591IA/V005 (variation and consolidation) | Duly made 18/02/2014 | Application to vary the permit to include a new facility and extend the permit boundary line |
| Variation determined EPR/BU0591IA/V005 | 06/05/2014 | Varied and consolidated permit issued |
| Application Variation EPR/BU0591IA/V006 | Duly made 29/04/2019 | Application to vary the permit to include 2 combined heat and power (CHP) units and to extend the permit boundary |

| Status log of the permit | | |
|--|---|--|
| Description | Date | Comments |
| Permit determined EPR/BU0591IA/V006 (PAS Billing ref. GP3031QK) | 05/07/2019 | Varied and consolidated permit issued |
| Application EPR/BU0591IA/V007 (variation and consolidation) | Regulation 61 Notice response received 22/07/2022 | Environment Agency initiated variation and consolidation following the Food, Drink & Milk Industries sector permit review. |
| Request for Further Information EPR/BU0591IA/V007 04/01/2023 | 18/01/2023 | RFI regarding BATc 1, 6, 9, EPL energy and wastewater, updated site plan, H1 Assessment |
| Variation determined and consolidation issued EPR/BU0591IA (Billing ref. GP3744QU). | 22/03/2023 | 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/BU05911A

Issued to

Arla Foods Limited (“the operator”)

whose registered office is

Arla House

4 Savannah Way

Leeds

Yorkshire

LS10 1AB

company registration number 02143253

to operate a regulated facility at

Stourton Dairy

Pontefract Road

Hunslet

Leeds

LS10 1AX

to the extent set out in the schedules.

The notice shall take effect from 22/03/2023

| Name | Date |
|------------------------|-------------------|
| Marcus Woodward | 22/03/2023 |

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BU0591IA

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BU0591IA/V007 authorising,

Arla Foods Limited (“the operator”),

whose registered office is

**Arla House
4 Savannah Way
Leeds
Yorkshire
LS10 1AB**

company registration number 02143253

to operate an installation at

**Stourton Dairy
Pontefract Road
Hunslet
Leeds
LS10 1AX**

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

| Name | Date |
|-----------------|------------|
| Marcus Woodward | 22/03/2023 |

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 green 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 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.

2.3.5 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 and S3.2.

- 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 - steam and electrical power supply - Boilers A1, A2 & A3 the first monitoring measurements shall be carried out within four months of 01/01/2030 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 operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - ~~(b)~~ implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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 and S3.2.

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 and S3.2 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 6.8 Part A(1) (e) | Treating and processing milk with the quantity of milk received being more than 200 tonnes per day (average value on annual basis) | From receipt of raw milk delivered to the site to the dispatch of processed packaged milk products: market milk, fresh and sour cream and cottage cheese together with other added value products. Production capacity is limited to 2,318 tonnes per day. |
| AR2 | Section 5.4 A(1)(a) | Disposal of non-hazardous waste with a capacity of exceeding 50 tonnes per day involving biological treatment (i) biological treatment | From receipt of effluent from physico-chemical treatment and processing of milk to discharge to Yorkshire Water Treatment Works sewer. |
| AR3 | Section 5.4 Part A1(a) | Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving (ii) physico-chemical treatment | From generation of process effluent to discharge to Yorkshire Water Treatment Works sewer. Effluent treatment plant – treatment of waste process waters by screening, balancing, DAF, chemical dosing, filtration, settlement, sludge dewatering. |
| Directly Associated Activity | | | |
| AR3 | Steam and electrical power supply | Medium Combustion plants: Natural Gas fired Boiler A1: 4 MWth Boiler A2: 4 MWth Boiler A3: 2.995 MWth CHP A4: 5.965 MWth CHP A5: 5.965 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 | Use of refrigerants | Use of refrigerants in cooling, chilling and/or freezing systems at the installation. | From receipt of raw materials to dispatch of final product. |

| Table S1.1 activities | | | |
|------------------------------|--|--|---|
| Activity reference | Activity listed in Schedule 1 of the EP Regulations | Description of specified activity | Limits of specified activity |
| AR6 | 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. |
| AR7 | Waste storage and handling | Storage and handling of waste materials | From generation of waste to storage pending removal for disposal or recovery. |
| AR8 | Process cooling waters | Operation of 3 cooling towers | From operation of cooling towers, including chemical dosing. |
| AR9 | Surface water drainage | Collection of uncontaminated site surface waters | Handling and storage of site drainage until discharge to the site surface water system. |
| AR10 | Vehicle cleaning | Provisions of vehicle cleaning facilities. | Operation of vehicle cleaning facility and discharge of wash waters to sewer. |

| Table S1.2 Operating techniques | | |
|---|---|----------------------|
| Description | Parts | Date Received |
| Application | The response to questions 2.1 and 2.2 given in Section 2.1 and 2.2 of the main application and appendices H and I | 28/11/2003 |
| Response to additional information request (dated 17/02/2004) | Responses to questions 1 – 50 | 11/03/2004 |
| Variation Application EPR/BU0591IA/V004 | The response to Section 2 and 3 in Part C of the Application Form. [H1 Pollution Risk Assessment & Management Plan 2009] [Site Protection Monitoring Plan] | 15/05/2009 |
| Additional information provided to Duly Make Variation Application EPR/BU0591IA/V004 | Effluent Plant Specifications-Phase 1(a) and Phase 1(b) | 15/05/2009 |
| Additional information provided in response to Schedule 5 Notice for further information dated 05/08/2009 | Response to question 1 d) [Hydrogen Sulphide Monitoring] Response to question 3 [BAT assessment] | 15/09/2009 |
| Additional information provided in response to email sent 07/08/2009 | Response to question 3 [Odour control effluent plant] Response to Question 6 [Odour and noise control measures] | 25/09/2009 |
| Additional information provided in response to email sent 24/09/2009 | Response to question 5 [Cleaning and Sanitation] | 25/09/2009 |
| Variation Application EPR/BU0591IA/V005 | Responses to Parts C2 & C3 Section 3 of the Application Form and referenced supporting documentation. Updated Site Condition Report, confirmation of storage arrangements – (09/01/2014) Further questions regarding application – (18/02/2014) | 18/02/2014 |
| Variation Application EPR/BU0591IA/V005 | Response to request for information – updated site layout plan showing emission points to air and sewer and location of effluent treatment plant | 20/03/2014 |
| Variation Application EPR/BU0591IA/V006 | Responses to Part B 2.5, C2 and C3 of the application forms and supporting documentation | 21/01/2019 |
| Additional information provided in response to email sent 26/04/2019 | Response to question 2 [boiler blowdown cooling water] | 29/04/2019 |
| Regulation 61 (1) Notice – Responses to questions dated 24/03/2022 | All parts | 22/07/2022 |
| Request for further information 04/01/2023 | Further information provided regarding the following: BATc 1, 6, 9, EPL energy and wastewater, updated site plan, H1 Assessment | 18/01/2023 |

Schedule 2 – Waste types, raw materials and fuels

| Table S2.1 Raw materials and fuels | |
|------------------------------------|---------------|
| Raw materials and fuel description | Specification |
| -- | -- |

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 |
| A1 – Boiler 1 [Point A1 on site plan in Schedule 7] | 4 MWth Natural Gas fired Boiler plant | Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂) | 250 mg/m ³ [Note 1] | Periodic | Every three years [Note 2] | BS EN 15267-3 |
| | | Carbon monoxide | No Limit | Periodic | Every three years | MCERTS BS EN15058 |
| A2 – Boiler 2 [Point A2 on site plan in Schedule 7] | 4 MWth Natural Gas fired Boiler plant | Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂) | 250 mg/m ³ [Note 1] | Periodic | Every three years [Note 2] | BS EN 15267-3 |
| | | Carbon monoxide | No Limit | Periodic | Every three years | MCERTS BS EN15058 |
| A3 – Boiler 3 [Point A3 on site plan in Schedule 7] | 2.995 MWth Natural Gas fired Boiler plant | Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂) | 250 mg/m ³ [Note 1] | Periodic | Every three years [Note 2] | BS EN 15267-3 |
| | | Carbon monoxide | No Limit | Periodic | Every three years | MCERTS BS EN15058 |
| A4 – CHP 1 emitted through common stack [Point A4 on site plan in Schedule 7] | 5.965 MWth Natural Gas fired CHP | Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂) | 95 mg/m ³ | In line with EA TGN M5 | Every three years | EA TGN M5 |
| | | Carbon monoxide | No Limit | Periodic | Every three years | MCERTS BS EN15058 |
| A5 – CHP 2 emitted through common stack [Point A5 on site plan in Schedule 7] | 5.965 MWth Natural Gas fired CHP | Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂) | 95 mg/m ³ | In line with EA TGN M5 | Every three years | EA TGN M5 |
| | | Carbon monoxide | No Limit | Periodic | Every three years | MCERTS BS EN15058 |

| Table S3.1 Point source emissions to air – emission limits and monitoring requirements | | | | | | |
|--|--|-------------------|--------------|----------|---------------------|------------------------------------|
| A6 External Warehouse heating generator [Point WH3-side on site plan in Schedule 7] | Warehouse 3 Diesel generator under 1 MWth | No parameters set | No limit set | -- | -- | -- |
| A7 External Warehouse heating generator [Point WH3-rear on site plan in Schedule 7] | Warehouse 3 Diesel generator under 1 MWth | No parameters set | No limit set | -- | -- | -- |
| Pressure Release Valves (PRV) [not shown in Schedule 7] | Various PRV x 80 | No parameters set | No limit set | -- | -- | -- |
| External tank vents [not shown in Schedule 7] | Various tank vents – raw milk, water tanks, whey tank | No parameters set | No limit set | -- | -- | -- |
| A8 Balance and divert tanks at effluent treatment plant [Point A8 marked on the site layout plan in Schedule 7] | Displacement from header space of balance and divert tanks at effluent treatment plant | Hydrogen sulphide | No limit set | 24 hours | Continuous [Note 3] | Hydrogen Sulphide monitor [Note 4] |
| <p>Note 1: The limits shall only apply from 01/01/2030 (unless the boiler is replaced).</p> <p>Note 2: The monitoring requirements shall only apply from 01/01/2030 (unless the boiler is replaced).</p> <p>Note 3: Monitoring frequency may be reduced by prior agreement in writing by the Agency to ensure compliance with condition 3.3 of this permit.</p> <p>Note 4: Monitoring method to be agreed with the Agency.</p> | | | | | | |

| Emission point ref. & location | Source | Parameter | Limit (incl. Unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|---|---|-------------------|---------------------------|-------------------------|-----------------------------|--------------------------------------|
| S1 [Point S1 on site plan in schedule 7] emission to Yorkshire Water Sewage Treatment Works | Treated process effluent from onsite effluent treatment plant | No parameter set | No limit set | -- | -- | -- |
| S2 [Point S2 on site plan in schedule 7] emission to Yorkshire Water Sewage Treatment Works | Uncontaminated surface water run-off | No parameters set | No limit set | -- | -- | -- |

Schedule 4 – Reporting

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

| Parameter | Emission or monitoring point/reference | Reporting period | Period begins |
|--|---|---|---|
| Point source emissions to air Parameters as required by condition 3.5.1 | A8 (Balance tanks) | Every 6 months | 1 January, 1 June |
| | A1, A2, A3 (MCPD Boiler emission points) | First monitoring undertaken in accordance with Condition 3.1.4 to be reported within 3 months, and then every 3 years thereafter. | From first monitoring requirements in accordance with Condition 3.1.4 |
| | A4, A5 (MCPD CHP emission points) | Every 3 years | 1 st January |
| Point source emissions to sewer Parameters as required by condition 3.5.1 | S1, S2 | Every 12 months | 1 January |

| Table S4.2: Annual production/treatment | |
|--|--------------|
| Parameter | Units |
| Pasteurised milk produced. | tonnes |
| Fresh cream | tonnes |
| Sour cream | tonnes |
| Cottage cheese | tonnes |

| Table S4.3 Performance parameters | | |
|---|--------------------------------|-------------------|
| Parameter | Frequency of assessment | Units |
| Water usage | Annually | m ³ |
| Energy usage | Annually | MWh |
| Waste | Annually | tonnes |
| Food waste | Annually | tonnes |
| COD efficiency | Annually* | COD te/te product |
| *COD efficiency to be calculated on a weekly frequency, reported annually | | |

| 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 |
| Food waste | Food waste Reporting Form, or other form as agreed in writing by the Environment Agency | Version 1 06/02/2023 |
| 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.

“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 limit.

“Food waste” reporting: Reporting of food waste to use a methodology such as the global Food Loss and Waste Accounting and Reporting Standard (FLW standard) , WRAP’s Target Measure Act initiative or similar.

“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.

“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.

“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. An “existing medium combustion plant” is combustion plant operating before 20 December 2018.

“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.

Drafting note: Use when Pests condition is included in permit.

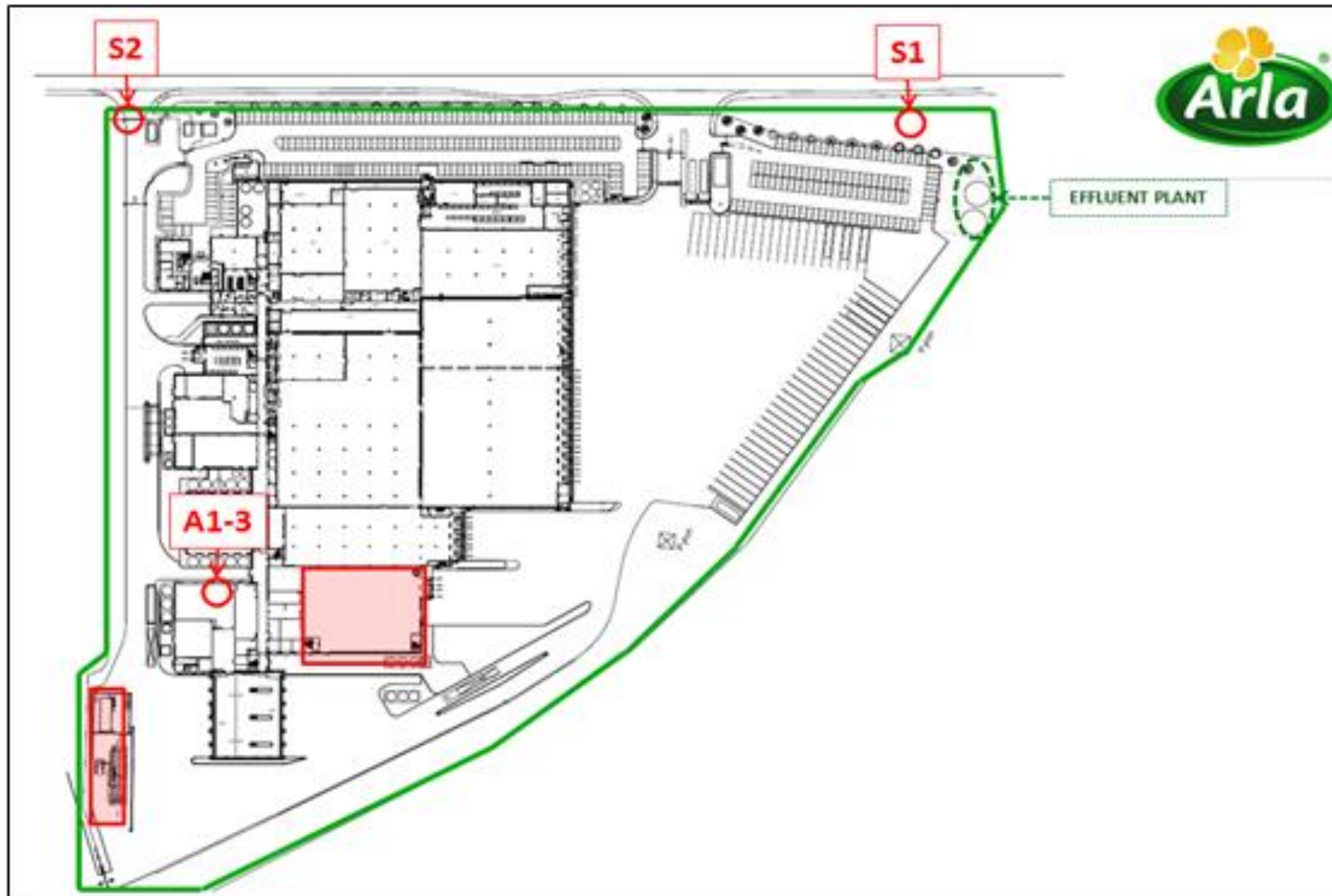
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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 other than gas engines or gas turbines, 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





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END OF PERMIT