Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Kellogg Company of Great Britain Limited

Wrexham Breakfast Cereals
Kellogg's
Bryn Lane
Wrexham Industrial Estate
Wrexham
LL13 9UT

Permit number

EPR/BV8016ID

Wrexham Breakfast Cereals
Permit number EPR/BV8016ID

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Kellogg of Great Britain UK Limited is the operator of the Wrexham plant that produces a ready to eat cereal and products derived from these, on four processing lines. A further process produces a range of snack bars. The raw materials used in the processes are a range of grains that are cooked, dried, formed and toasted prior to packing. Other ingredients such as sugars, fruit and honey are also added depending on the product type.

The majority of raw materials are delivered to site and stored in silos. Ingredients are weighed into cookers, where the grains are cooked with malt flavouring under pressure. Once cooked, the product is transferred to a dryer to reduce the moisture content of the cooked material to a level where it can be extruded or formed into a flake, cake bar or shred depending on the product type. After forming, the product is then toasted to create a crisp flake. Further through the process, other ingredients such as fruits, coating, and vitamins are added as necessary. Associated activities of the manufacturing process also include sampling of raw materials and storage of finished goods.

The installation is served by 4 boilers that have a combined thermal rating of 48MW. These are used to produce steam for use in the process. When aggregated with the thermal rating of the ovens it becomes a listed activity under Section 1.1A(1)(a) of the Environmental Permitting Regulations. The fuel used on site is natural gas.

Effluent produced by the site is derived from the cleaning processes of the production lines. All the effluent is discharged via the onsite effluent treatment plant under a discharge consent from Welsh Water, before undergoing further treatment at the sewage works at Five Ffords. This is then subsequently discharged to the River Dee.

The installation also discharges surface and roof water, via balancing ponds which are discharged to Is Y Coed Brook, a tributary of the River Dee.

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

Status log of the permit		
Description	**Date**	**Comments**
Application received	08/03/05	
Schedule 4 Notice	Request dated 08/09/05	Response dated 10/10/05
Request to extend determination	18/07/05	Request accepted 22/07/05
Request to extend determination)	31/10/05	Request accepted 02/11/05
Back up cooling water	Received 04/11/05	
Permit determined EPR/BV8016ID	09/11/05	
Application variation KP3135LW	Received 20/02/06	
Additional information supplied	28/03/06	Clarification on a number of points in variation application and amended plan C.01a/1105
Additional information supplied	26/04/06	Response to request for further information letter 25/04/06
Variation Issued KP3135LW	05/05/06	
Application variation VP3823KF	Duly Made 17/02/10	
Variation Issued EPR/BV8016ID/V004	22/03/10	
Application variation EPR/BV8016ID/V005	Duly Made 14/03/12	
Variation Issued EPR/BV8016ID/V005	19/04/12	
Agency variation determined EPR/BV8016ID/V006	21/03/13	Agency variation to implement the changes introduced by IED
Variation application EPR/BV8016ID/V007	Duly Made 28/03/17	
Additional information requested	05/07/17	
Additional information received	08/07/17	
Schedule 5 Notice requesting further information	26/07/17	Request for detailed air modelling
Additional information received in response to S5	03/08/17	
Variation issued EPR/BV8016ID/V007	19/10/17	
Regulation 61 Notice sent to the Operator	24/04/20	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best

		Available Techniques (BAT) Reference Document (BRef) for the Food, Drink and Milk Industries.
Regulation 61 Notice response	15/09/2020	Response received from the operator.
Variation application EPR/BV8016ID/V008	Duly made 24/12/2021	Variation to change emissions to air on main process roof and inclusion of new dust abatement systems.
Variation determined EPR/BV8016ID/V008	14/02/2022	Varied permit issued to Operator incorpating changes from the statutory sector review following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for the Food, Drink and Milk Industries and the operator initiated variation.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/BV8016ID

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BV8016ID/V008 authorising

Kellogg Company of Great Britain Limited ("the operator")

whose registered office is

Orange Tower Media City UK
Salford
Greater Manchester
M50 2HF
United Kingdom

company registration number **00199171**

to operate **an installation** at

Wrexham Breakfast Cereals
Kellogg's
Bryn Lane
Wrexham Industrial Estate
Wrexham
LL13 9UT

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

Signed	Date
Holly Noble	**14/02/2022**

Authorised on behalf of Natural Resources Wales

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").

2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

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 (a) 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 Natural Resources Wales.

(b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.

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

2.3.3 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.

2.3.4 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 Natural Resources Wales.

2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales 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 Where a substance is specified in schedule 3 table S3.2 or S3.3 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.

3.1.4 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.

3.2 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, 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;

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 Natural Resources Wales.

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 Natural Resources Wales.

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 Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

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

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 (a) In the event 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 Natural Resources Wales,

(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) in the event of a breach of any permit condition the operator must immediately—

(i) inform Natural Resources Wales, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) in the event 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales 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) Natural Resources Wales 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 Natural Resources Wales 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, Natural Resources Wales 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” or “without delay” 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	S6.8 A1(d)(ii) – Treatment and processing, other than exclusively packaging of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of the finished product excludes packaging) – only vegetable raw materials with a finished product production capacity greater than 300 tonnes per day	Treating and processing materials for the manufacture of breakfast cereals and snack bars	From receipt of raw materials to manufacture, storage and despatch of finished product, cleaning of process plant and the storage, handling and despatch of waste arising from the production process. Maximum capacity limited to the agreed figure provided in response to part (b) of Improvement Condition 10.
AR2	S1.1 A1(a) – Burning any fuel in an applicance with a rated thermal input of 50 or more megawatts	Operating a combustion facility comprising of: 2x 7.2 MW gas steam boilers 1x 14.7 MW gas steam boiler 1x 16.6 MW gas steam boiler 1x 1.5 MW RDS Cooked Product Dryer 1x 6.34 MW All Bran Plant 1x 4.8 MW Bran Flakes Plant 1x 5.4 MW RDX Plant 1x 6.56 MW Fourth Process Plant 1x 0.3 MW Base Dryer 1x 0.265 MW Coating Dryer with a combined thermal input capacity of 70.9 MW.	From the generation of energy, cooking and drying of products to discharging to air.
AR3	S5.4 A1 (a)(i) – Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving one or more of the following activities: (i) biological treatment	Screening, treatment by dissolved air flotation and aerobic digestion of process effluent	From collection of effluent from all process areas to the effluent treatment plant to the discharge to public sewer.
Directly Associated Activity			
AR4	Surface water drainage	Yard and roof water collection and discharge to surface water	From collection of surface water to discharge to controlled water.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	The response to questions 2.1, 2.2 and 2.10 of the application.	08/03/2005
Response to Schedule 4	Full response	10/10/2005
Application variation EPR/BV8016ID/V004	Non-technical summary	09/10/2009
Application variation EPR/BV8016ID/V004	Not duly made response letter dated 11/02/2010	12/02/2010
Application variation EPR/BV8016ID/V005	The response to question 5.c in Part C2 of the application	06/03/2012
Application variation EPR/BV8016ID/V005	Not duly made response email dated 13/03/2012	13/03/2012
Application variation EPR/BV8016ID/V007	Non-technical summary	07/03/2017
Application variation EPR/BV8016ID/V008	Application supporting documentation 'Document Reference 1' attached to e-mail dated 02/06/2021. Application for a Variation to Environmental Permit Number EPR/BV8016ID Responses to application from Part C2 and Part C3.	09/07/2021
Application variation EPR/BV8016ID/V008	Not duly made response e-mail dated 16/12/2021 with updated 'Layout of factory emissions Wrexham Plant' W-bl-303r17	16/12/2021
Response to regulation 61(1) Notice – request for information dated 24/04/2020 detailing how the Operator will comply with the BAT conclusions for Food, Drink and Milk Industries under Directive 2010/75/EU of the European Parliament and of the Council	All	15/09/2020
Additional information received via E-mail	All	26/10/2021, 09/11/2021, 17/11/2021 and 18/11/2021

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The Operator shall develop a Site Closure Plan having regard to the requirements set out in Section 2.11 of the Agency Guidance Note IPPC S6.10. Upon completion of the plan, a summary of the document shall be submitted to the Agency in writing.	09/05/2006
IC2	The Operator shall conduct a review of the monitoring methods available for the emission of suspended solids from emission points W1 and W2, having regard for Agency Monitoring Guidance Note M18. A summary of the review shall be submitted in writing to the Agency, along with any improvements identified and associated timescales for implementation.	09/05/2006
IC3	The Operator shall develop an odour management plan, which shall consider, but not be limited to, the on-site Effluent Treatment Plant, in line with Agency Guidance Note H4.	09/07/2006

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC4	The Operator shall conduct a review of the performance of the balancing ponds located prior to the discharge points W1 and W2. The review shall consider the effectiveness of the balancing ponds for the treatment of the yard and roof water run-off. Upon completion of the review, a report shall be submitted in writing to the Agency, summarising the findings, any improvements identified and associated timescales for implementation.	09/07/2006
IC5	The Operator shall carry out air emissions monitoring for particulate matter from emission points A6, A7, A8, A9, A10, A11, A12, A13, A14, A15 and A16, in accordance with Monitoring Standard BS EN 13284-1 (unless otherwise agreed in writing with the Agency). Upon completion of the monitoring, the Operator shall carry out an impact assessment from the emissions using Agency Guidance Note H1. The Operator shall submit a report detailing the results from the monitoring exercise and the impact assessment.	09/11/2006
IC6	The Operator shall develop and submit in writing to the Agency, a noise management plan. The plan shall include, but not be limited to, the sources of noise identified in section B9 of the application and the H1 assessment submitted as part of the application. The plan shall identify the significant sources of noise on site, and options available for reducing the impact from these sources. The plan shall also include the timescales for implementation of any measures identified, for approval by the Agency.	09/11/2006
IC7	The Operator shall conduct an investigation into the options available for reducing emissions of Oxides of Sulphur and Oxides of Nitrogen from the combustion plant, with particular emphasis on emissions of Oxides of Nitrogen from the boilers and Oxides of Sulphur from the vents numbered 76, 77, 78, 79, 80 and 81 serving the granola ovens. Following the investigation, the Operator shall submit a report detailing the outcome, proposed improvements and a timescale for implementation of these improvements to the Agency for approval.	09/05/2007
IC8	The Operator shall carry out air emissions monitoring for oxides of nitrogen and oxides of sulphur from emission point A23 during commissioning of the plant. The monitoring method shall be agreed in writing with the Agency prior to its commencement. Upon completion of the monitoring, the Operator shall carry out an impact assessment using Agency Guidance Note H1. The Operator shall submit a report detailing the results from the monitoring exercise and the impact assessment.	09/07/2006

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC9	The Operator shall submit to Natural Resources Wales an updated written procedure following additional investigate work describing how they intend to meet the following BAT requirements in accordance with the requirements specified within: • BAT Conclusion 9 of the Food, Drink and Milk Industries BRef Document (EU 2019) – In order to prevent emissions of ozone depleting substances and of substances with a high global warming potential from cooling and freezing, BAT is to use refrigerants without ozone depletion potential and with a low global warming potential The report should include but not limited to • a review of the use of the current refrigerant as to whether it meets the BAT requirements as specified above and; • a feasibility study and implementation plan (if appropriate) regarding the replacement of the current refrigerant with one with a lower global warming potential and no ozone depletion potential. Suitable alternatives include but not limited to ammonia, water and carbon dioxide. The report shall be submitted to Natural Resources Wales by the date specified for review. Natural Resources Wales will review the report to determine if the above BAT requirements have been achieved.	4 June 2023 or otherwise agreed in writing with Natural Resources Wales
IC10	(a) The Operator shall submit to NRW the maximum capacity of the installation that was used in the most recent risk assessment submitted to NRW. (b) The Operator shall submit to NRW for approval the maximum capacity of the installation at the current time. (c) If the maximum capacity of the installation has increased from the time of the last submitted risk assessment and the current time, the Operator shall review and update the risk assessment to account for the current maximum capacity. The risk assessment shall be submitted to NRW for review. Notes: The capacity is to be taken and presented using the same units from the relevant sub-section of Section 6.8, Part 2, Schedule 1 of the Environmental Permitting Regulations 2016 (as from time to time amended). Capacity is to be taken as the maximum possible capacity of the installation, not the maximum actual production. The risk assessment should follow the methodology set out in The Environmental Risk Assessment (EPR-H1). You may use a methodology other than EPR-H1 however the methodology must address the same issues as in EPR-H1 to an equivalent level of detail.	(a) and (b) Within 6 months of permit variation issue or otherwise agreed by NRW (c) Within 9 months of permit variation issue (if applicable) or otherwise agreed by NRW

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC11	Following successful commissioning and establishment of routine steady operation, the Operator shall undertake noise monitoring at the nearest local receptors. This shall include: • A full noise monitoring survey and assessment meeting the BS4142:2014 standard • 1/3rd octave and narrow band (FFT) measurements to identify any tonal elements or low frequency noise • Reference to the Welsh Government Noise and soundscape action plan 2018-2023. Upon completion of the work, a written report shall be submitted to Natural Resources Wales for approval. Operator to review the noise management plant and update where necessary incorporating the changes to emissions to air and the new equipment with associated noise controls.	Within 9 months of commissioning

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
None set	-

Schedule 3(a) – Emissions and monitoring effective until 3 December 2023

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 [Emission Point 106 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Steam raising boiler No1	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	No limit set	Periodic	Every 6 months	EN 14792
A2 [Emission Point 106 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Steam raising boiler No2	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	No limit set	Periodic	Every 6 months	EN 14792
A3 [Emission Point 106 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Steam raising boiler No3	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	No limit set	Periodic	Every 6 months	EN 14792
A4 [Emission Point 107 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Steam raising boiler No4	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	No limit set	Periodic	Every 6 months	EN 14792
A5 [Emission Point 48 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Product conveying	No parameters set	-	-	-	-
A6 [Emission Point 50 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	All bran dryer bleed fume extraction	No parameters set	-	-	-	-

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**
A7 [Emission Point 51 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	All bran dryer bleed fume extraction	No parameters set	-	-	-	-
A8 [Emission Point 52 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	All-Bran cooler exhaust	No parameters set	-	-	-	-
A9 [Emission Point 55 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Bran Flakes oven bleed fume extraction	No parameters set	-	-	-	-
A10 [Emission Point 56 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Bran Flakes oven bleed fume extraction	No parameters set	-	-	-	-
A11 [Emission Point 57 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	RDX Oven extraction	No parameters set	-	-	-	-
A12 [Emission Point 58 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	RDX oven bleed fume extraction	No parameters set	-	-	-	-

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**
A13 [Emission Point 60 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	RDX oven bleed fume extraction	No parameters set	-	-	-	-
A14 [Emission Point 92 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	4th oven bleed fume extraction	No parameters set	-	-	-	-
A15 [Emission Point 93 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	4th oven bleed fume extraction	No parameters set	-	-	-	-
A16 [Emission Point 94 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	4th oven bleed fume extraction	No parameters set	-	-	-	-
A17 [Emission Point 76 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven cooling extract	No parameters set	-	-	-	-
A18 [Emission Point 77 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 5	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791

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**
A19 [Emission Point 78 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 4	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791
A20 [Emission Point 79 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 3	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791
A21 [Emission Point 80 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 2	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791
A22 [Emission Point 81 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 1	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791
A23 [Emission Point 111 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Wet de-duster	No parameters set	-	-	-	-
A24 [Emission Point 118 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Pellet dryer	No parameters set	-	-	-	-

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**
A25 [Emission Point 119 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	RDX cooked product dryer bleed	No parameters set	-	-	-	-
A26 [Emission Point 120 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Dry dust collector serving extruders, coating system and general conveyors	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A27 [Emission Point 121 as shown on drawing W-Bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Wet dust collector serving coater dryer	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A28 [Emission Point 122 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Wet dust collector serving extruder and base dryer	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A29 [Emission Point 73 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	LEV dust extraction serving packaging area	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A30 [Emission Point 123 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Bran/Corn dryer process wet dust collector	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID

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**
A31 [Emission Point 124 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Dry dust collection on the 7 sisters arrangement	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements							
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Compliance statistic**	**Monitoring standard or method**
W1 [Emission Point 108 on drawing number W-BL-303r02 submitted as part of the application] emission to Is y Coed brook, a tributary of the River Dee	Roof water, site drainage and raw water from once through cooling systems discharged via balancing bond and oil interceptor	Biochemical oxygen demand	30 mg/l	Spot sample	Weekly	Maximum	BS EN 1899-1
		Total suspended solids	50 mg/l	Spot sample	Weekly	Maximum	BS EN 872
		Chemical oxygen demand	70mg/l	Spot sample	Daily	-	BS 6068-2.34
W2 [Emission Point 109 on drawing number W-BL-303r02 submitted as part of the application] emission to Is y Coed brook, a tributary of the River Dee	Roof water and site drainage discharged via balancing bond and oil interceptor	Biochemical oxygen demand	30 mg/l	Spot sample	Weekly	Maximum	BS EN 1899-1
		Total suspended solids	50 mg/l	Spot sample	Weekly	Maximum	BS EN 872
		Chemical oxygen demand	70 mg/l	Spot sample	Daily	-	BS 6068-2.34

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
		Suspended solids	No limit set	Spot sample	Daily	BS EN 872

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 [Emission Point 110 on drawing number W-BL-303r02 submitted as part of the application] emission to Welsh Water foul sewer leading to Five Fords Wastewater Treatment Works	Process water treated by the on-site Effluent Treatment Plant	Chemical oxygen demand	No limit set	Spot sample	Daily	BS 6068-2.34
		Flow	No limit set	Total daily volume	Daily	MCERTS certified flowmeter

Schedule 3(b) – Emissions and monitoring effective from 4 December 2023

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 [Emission Point 106 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Steam raising boiler No1	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	No limit set	Periodic	Every 6 months	EN 14792
A2 [Emission Point 106 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Steam raising boiler No2	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	No limit set	Periodic	Every 6 months	EN 14792
A3 [Emission Point 106 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Steam raising boiler No3	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	No limit set	Periodic	Every 6 months	EN 14792
A4 [Emission Point 107 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Steam raising boiler No4	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	No limit set	Periodic	Every 6 months	EN 14792
A5 [Emission Point 48 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Product conveying	No parameters set	-	-	-	-
A6 [Emission Point 50 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	All bran dryer bleed fume extraction	No parameters set	-	-	-	-

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**
A7 [Emission Point 51 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	All bran dryer bleed fume extraction	No parameters set	-	-	-	-
A8 [Emission Point 52 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	All-Bran cooler exhaust	No parameters set	-	-	-	-
A9 [Emission Point 55 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Bran Flakes oven bleed fume extraction	No parameters set	-	-	-	-
A10 [Emission Point 56 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Bran Flakes oven bleed fume extraction	No parameters set	-	-	-	-
A11 [Emission Point 57 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	RDX Oven extraction	No parameters set	-	-	-	-
A12 [Emission Point 58 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	RDX oven bleed fume extraction	No parameters set	-	-	-	-

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**
A13 [Emission Point 60 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	RDX oven bleed fume extraction	No parameters set	-	-	-	-
A14 [Emission Point 92 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	4th oven bleed fume extraction	No parameters set	-	-	-	-
A15 [Emission Point 93 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	4th oven bleed fume extraction	No parameters set	-	-	-	-
A16 [Emission Point 94 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	4th oven bleed fume extraction	No parameters set	-	-	-	-
A17 [Emission Point 76 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven cooling extract	No parameters set	-	-	-	-
A18 [Emission Point 77 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 5	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791

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**
A19 [Emission Point 78 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 4	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791
A20 [Emission Point 79 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 3	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791
A21 [Emission Point 80 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 2	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791
A22 [Emission Point 81 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Granola oven 1	Oxides of sulphur (expressed as SO_2)	No limit set	Periodic	Every 6 months	EN 14791
A23 [Emission Point 111 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Wet de-duster	No parameters set	-	-	-	-
A24 [Emission Point 118 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Pellet dryer	No parameters set	-	-	-	-

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**
A25 [Emission Point 119 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	RDX cooked product dryer bleed	No parameters set	-	-	-	-
A26 [Emission Point 120 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Dry dust collector serving extruders, coating system and general conveyors	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A27 [Emission Point 121 as shown on drawing W-Bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Wet dust collector serving coater dryer	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A28 [Emission Point 122 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Wet dust collector serving extruder and base dryer	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A29 [Emission Point 73 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	LEV dust extraction serving packaging area	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A30 [Emission Point 123 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Bran/Corn dryer process wet dust collector	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID

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**
A31 [Emission Point 124 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Dry dust collection on the 7 sisters arrangement	Total particulate	50 mg/m^3	Hourly average	Annual	BS EN 13284-1 and MID
A32 [Emission Point 25 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Grain milling – malt dust filter – bag fitler abatement	Total particulate	5 mg/Nm^3 Note 1	Periodic	Annual	EN 13824-1
A33 [Emission Point 26 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Grain milling – corn alpine mill – bag fitler abatement	Total particulate	5 mg/Nm^3 Note 1	Periodic	Annual	EN 13284-1
A34 [Emission Point 27 as shown on drawing W-bl-303r17 submitted as part of application EPR/BV8016ID/V008]	Grain milling – malt kek mill – bag filter abatement	Total particulate	5 mg/Nm^3 Note 1	Periodic	Annual	EN 13284-1

Note 1: Emission limit value expressed as mass of emitted substances per volume of waste gas under the following conditions: dry gas at a temperature of 273.15 K and a pressure of 101.3 kPa without correction for oxygen content.

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements							
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Compliance statistic**	**Monitoring standard or method**
		Biochemical oxygen demand	30 mg/l	Spot sample	Weekly	Maximum	BS EN 1899-1
		Total suspended solids	50 mg/l	Spot sample	Weekly	Maximum	BS EN 872

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements							
Emission point ref. & location	**Source**	**Parameter**	**Limit (including unit)**	**Reference Period**	**Monitoring frequency**	**Compliance statistic**	**Monitoring standard or method**
W1 [Emission Point 108 on drawing number W-BL-303r02 submitted as part of the application] emission to Is y Coed brook, a tributary of the River Dee	Roof water, site drainage and raw water from once through cooling systems discharged via balancing bond and oil interceptor	Chemical oxygen demand	70 mg/l	Spot sample	Daily	-	BS 6068-2.34
W2 [Emission Point 109 on drawing number W-BL-303r02 submitted as part of the application] emission to Is y Coed brook, a tributary of the River Dee	Roof water and site drainage discharged via balancing bond and oil interceptor	Biochemical oxygen demand	30 mg/l	Spot sample	Weekly	Maximum	BS EN 1899-1
		Total suspended solids	50 mg/l	Spot sample	Weekly	Maximum	BS EN 872
		Chemical oxygen demand	70 mg/l	Spot sample	Daily	-	BS 6068-2.34

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 [Emission Point 110 on drawing number W-BL-303r02 submitted as part of the application] emission to Welsh Water foul sewer leading to Five Fords Wastewater Treatment Works	Process water treated by the on-site Effluent Treatment Plant	Suspended solids	No limit set	Spot sample	Daily	BS EN 872
		Chemical oxygen demand	No limit set	Spot sample	Daily	BS 6068-2.34
		Flow	No limit set	Total daily volume	Daily	MCERTS certified flowmeter

Schedule 4(a) – Reporting effective until 3 December 2023

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
Emissions to air Parameters as required by condition 3.5.1.	A1, A2, A3, A4, A18, A19, A20, A21, A22, A26, A27, A28, A29, A30, A31	Every 12 months	1 January
Emissions to water Parameters as required by condition 3.5.1	W1 and W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Emission to sewer Parameters as required by condition 3.5.1	S1	Every 3 months	1 January, 1 April, 1 July, 1 October

Table S4.2: Annual production/treatment

Parameter	Units
Total product production	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Portable water use	Annually	m^3/tonne product
Non portable water use	Annually	m^3/tonne product
Water usage	Annually	m^3/year
Refrigerant use	Annually	Kg/year
Specific energy consumption	Annually	MWh/tonne product
Carbon dioxide	Annually	tonnes/tonne product
Energy usage	Annually	MWh/year
Waste disposal and/or recovery	Annually	tonnes/year
Total suspended solids (S1)	Annually	tonnes/year & tonnes/tonne product
Chemical oxygen demand (S1)	Annually	tonnes/year & tonnes/tonne product

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	14/02/2022
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005

Schedule 4(b) – Reporting effective from 4 December 2023

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
Emissions to air Parameters as required by condition 3.5.1.	A1, A2, A3, A4, A18, A19, A20, A21, A22, A26, A27, A28, A29, A30, A31, A32, A33, A34	Every 12 months	1 January
Emissions to water Parameters as required by condition 3.5.1	W1 and W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Emission to sewer Parameters as required by condition 3.5.1	S1	Every 3 months	1 January, 1 April, 1 July, 1 October

Table S4.2: Annual production/treatment

Parameter	Units
Total product production	tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Portable water use	Annually	m^3/tonne product
Non portable water use	Annually	m^3/tonne product
Water usage	Annually	m^3/year
Refrigerant use	Annually	Kg/year
Specific energy consumption	Annually	MWh/tonne product
Carbon dioxide	Annually	tonnes/tonne product
Energy usage	Annually	MWh/year
Waste disposal and/or recovery	Annually	tonnes/year
Total suspended solids (S1)	Annually	tonnes/year & tonnes/tonne product
Chemical oxygen demand (S1)	Annually	tonnes/year & tonnes/tonne product

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	04/12/2023
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	09/11/2005

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	**EPR/BV8016ID**
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
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 permit condition	
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	
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) In the event 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:	
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.

"Annex I" means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Annex II" means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"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 Natural Resources Wales 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.

"building" means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

"combined heat and power" or "CHP" or "Cogeneration" means the simultaneous generation in one process of thermal energy and electrical or mechanical energy

*"disposal" or "D" m*eans any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"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**.**

"first put into operation" means that the plant must have been fired with its design fuel up to its full load. This can be, but does not have to be, during commissioning.

"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 lll of the Waste Framework Directive

"hazardous waste" has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended)

"hazardous substance" means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

"impermeable surface" means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface

"Industrial Emissions Directive" means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

"limited operating hours MCP" means an MCP that meets the requirements of paragraph 8 of Part 2 of Schedule 25A of the EP Regulations

"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 of the limitation of emissions of certain pollutants into the air from medium combustion plants.

"Natural gas" means naturally occurring methane with no more than 20 % by volume of inert or other constituents

"operating hours" means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods

"Pests" means Birds, Vermin and Insects.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"recovery" or "R" means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"residue" means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

"sealed drainage system" in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged

"specified generator" or "SG" means has the meaning given in paragraph 2(1) of Schedule 25B of the EP Regulations

"Waste code" means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the 'List of Wastes Decision') 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

"Waste Treatment BAT Conclusions" means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

"year" means calendar year ending 31 December.

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.

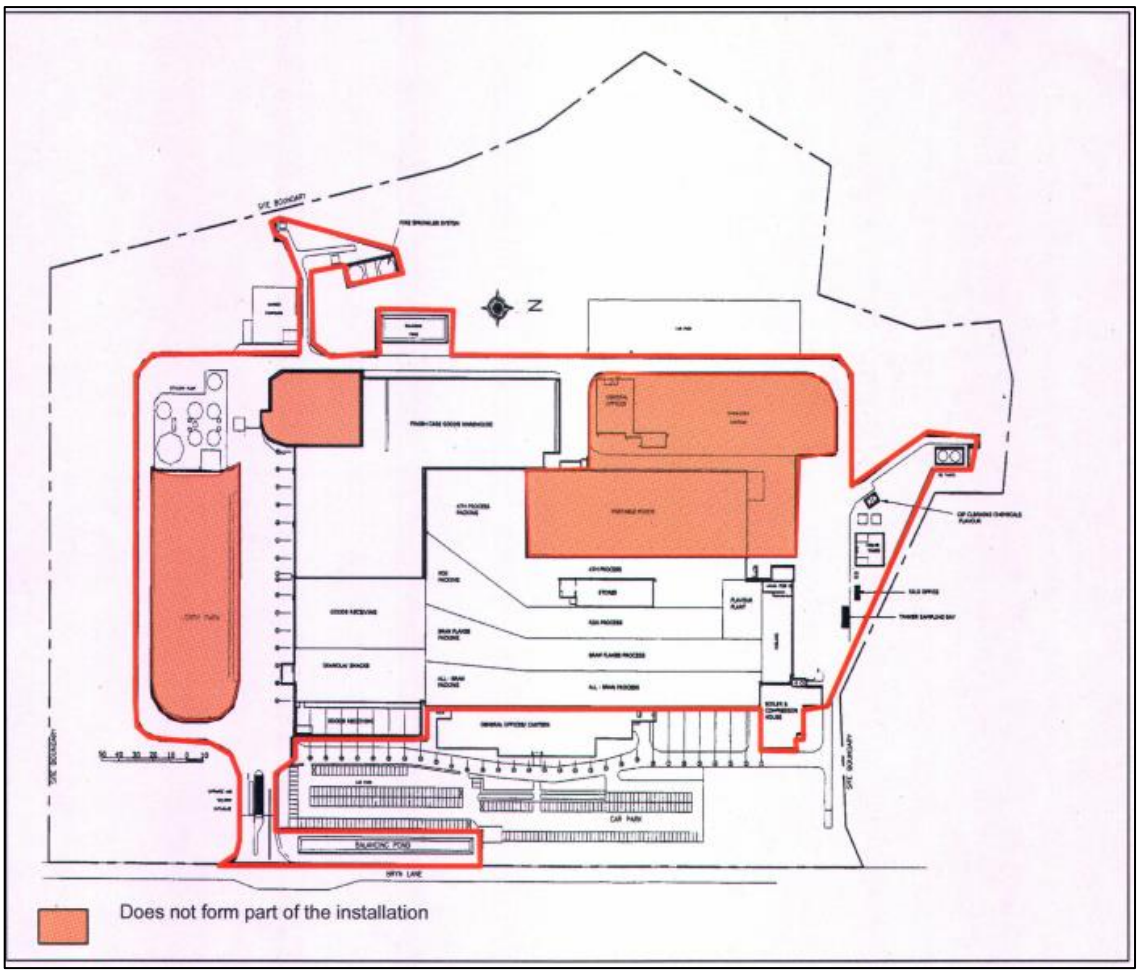
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

(a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273 K, at a pressure of 101.3 kPa and with an oxygen content of:

3 % for all other processes

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

Schedule 7 - Site plan



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