# Review of an Environmental Permit for an Installation subject to Chapter II of the Industrial Emissions Directive under the Environmental Permitting (England & Wales) Regulations 2016 (as amended)

## Decision document recording our decision-making process following review of a permit

The Permit number is: EPR/BN3219IT
The Operator is: Burgess Group Plc
The Installation is: Snaith Road Pet Food
This Variation Notice number is: EPR/BN3219IT/V006

#### What this document is about

Article 21(3) of the Industrial Emissions Directive (IED) requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication by the European Commission of updated decisions on best available techniques (BAT) Conclusions.

We have reviewed the permit for this installation against the BAT Conclusions for the Food, Drink and Milk Industries published on 4<sup>th</sup> December 2019 in the Official Journal of the European Union. In this decision document, we set out the reasoning for the consolidated variation notice that we have issued.

It explains how we have reviewed and considered the techniques used by the Operator in the operation and control of the plant and activities of the installation. It is our record of our decision-making process and shows how we have taken into account all relevant factors in reaching our position.

As well as considering the review of the operating techniques used by the Operator for the operation of the plant and activities of the installation, the consolidated variation notice takes into account and brings together in a single document all previous variations that relate to the original permit issue. Where this has not already been done, it also modernises the entire permit to reflect the conditions contained in our current generic permit template.

The introduction of new template conditions makes the Permit consistent with our current general approach and with other permits issued to Installations in this sector. Although the wording of some conditions has changed, while others have been deleted because of the new regulatory approach, it does not reduce the level of environmental protection achieved by the Permit in any way. In this document, we therefore address only our determination of substantive issues relating to the new BAT Conclusions.

We try to explain our decision as accurately, comprehensively and plainly as possible. Achieving all three objectives is not always easy, and we would welcome any feedback as to how we might improve our decision documents in future.

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#### How this document is structured

- 1. Our decision
- 2. How we reached our decision
- 3. The legal framework
- 4. Annex 1 Review of operating techniques within the Installation against BAT Conclusions.
- 5. Annex 2 Review and assessment of changes that are not part of the BAT Conclusions derived permit review
- 6. Annex 3 Improvement Conditions

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#### 1 Our decision

We have decided to issue the Variation Notice to the Operator. This will allow the Operator to continue to operate the Installation, subject to the conditions in the Consolidated Variation Notice that updates the whole permit.

We consider that, in reaching our decision, we have taken into account all relevant considerations and legal requirements and that the varied permit will ensure that a high level of protection is provided for the environment and human health.

The Consolidated Variation Notice contains many conditions taken from our standard Environmental Permit template including the relevant annexes. We developed these conditions in consultation with industry, having regard to the legal requirements of the Environmental Permitting Regulations and other relevant legislation. This document does not therefore include an explanation for these standard conditions. Where they are included in the Notice, we have considered the techniques identified by the operator for the operation of their installation, and have accepted that the details are sufficient and satisfactory to make those standard conditions appropriate. This document does, however, provide an explanation of our use of "tailor-made" or installation-specific conditions, or where our Permit template provides two or more options.

#### 2 How we reached our decision

#### 2.1 Requesting information to demonstrate compliance with BAT Conclusion techniques

We issued a Notice under Regulation 61(1) of the Environmental Permitting (England and Wales) Regulations 2016 (a Regulation 61 Notice) on 31/01/2022 requiring the Operator to provide information to demonstrate where the operation of their installation currently meets, or how it will subsequently meet, the revised standards described in the relevant BAT Conclusions document.

The Notice required that where the revised standards are not currently met, the operator should provide information that:

- describes the techniques that will be implemented before 4 December 2023, which will then ensure that operations meet the revised standards, or
- justifies why standards will not be met by 4 December 2023, and confirmation of the date when the
  operation of those processes will cease within the Installation or an explanation of why the revised BAT
  standards are not applicable to those processes, or
- justifies why an alternative technique will achieve the same level of environmental protection equivalent to the revised BAT standards described in the BAT Conclusions.

Where the Operator proposed that they were not intending to meet a BAT standard that also included a BAT Associated Emission Level (BAT-AEL) described in the BAT Conclusions Document, the Regulation 61 Notice required that the Operator make a formal request for derogation from compliance with that BAT-AEL (as provisioned by Article 15(4) of IED). In this circumstance, the Notice identified that any such request for derogation must be supported and justified by sufficient technical and commercial information that would enable us to determine acceptability of the derogation request.

The Regulation 61 Notice response from the Operator was received on 31/05/2022.

We considered it was in the correct form and contained sufficient information for us to begin our determination of the permit review but not that it necessarily contained all the information we would need to complete that determination.

The Operator made no claim for commercial confidentiality. We have not received any information in relation to the Regulation 61 Notice response that appears to be confidential in relation to any party.

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### 2.2 Review of our own information in respect to the capability of the Installation to meet revised standards included in the BAT Conclusions document

Based on our records and previous experience in the regulation of the installation we consider that the Operator will be able to comply with the techniques and standards described in the BAT Conclusions other than for those techniques and requirements described in BAT Conclusion 6, 8, 10, and 14. The operator does not currently comply with the requirements of BATc 6, 8, and 14. In relation to these BAT Conclusions, the operator has committed compliance by 4 December 2023. We have therefore included Improvement Conditions 12 and 13 in the Consolidated Variation Notice to ensure that the requirements of the BAT Conclusions are delivered before 4 December 2023.

#### 2.3 Requests for further information during determination

Although we were able to consider the Regulation 61 Notice response generally satisfactory at receipt, we did in fact need more information in order to complete our permit review assessment, and issued a further information request on 16/03/2023 regarding BATcs 1, 6 and 7. A copy of the further information request was placed on our public register.

#### 3 The legal framework

The Consolidated Variation Notice will be issued under Regulations 18 and 20 of the EPR. The Environmental Permitting regime is a legal vehicle which delivers most of the relevant legal requirements for activities falling within its scope. In particular, the regulated facility is:

- an installation as described by the IED;
- subject to aspects of other relevant legislation which also have to be addressed.

We consider that, in issuing the Consolidated Variation Notice, it will ensure that the operation of the Installation complies with all relevant legal requirements and that a high level of protection will be delivered for the environment and human health.

We explain how we have addressed specific statutory requirements more fully in the rest of this document.

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#### Annex 1: decision checklist regarding relevant BAT Conclusions

BAT Conclusions for the Food, Drink and Milk Industries, were published by the European Commission on 4 December 2019.

There are 37 BAT Conclusions.

BAT 1 – 15 are General BAT Conclusions (Narrative BAT) applicable to all relevant Food, Drink and Milk Installations in scope.

BAT 16 – 37 are sector-specific BAT Conclusions, including Best Available Techniques Associated Emissions Levels (BAT-AELs) and Associated Environmental Performance Levels (BAT-AEPLs):

BAT 16 & 17	BAT Conclusions for Animal Feed
BAT 18 – 20	BAT Conclusions for Brewing
BAT 21 – 23	BAT Conclusions for Dairies
BAT 24	BAT Conclusions for Ethanol Production
BAT 25 & 26	BAT Conclusions for Fish and Shellfish Processing
BAT 27	BAT Conclusions for Fruit and Vegetable Processing
BAT 28	BAT Conclusions for Grain Milling
BAT 29	BAT Conclusions for Meat Processing
BAT 30 – 32	BAT Conclusions for Oilseed Processing and Vegetable Oil Refining
BAT 33	BAT Conclusions for Soft Drinks and Nectar/Fruit Juice Processed from
	Fruit and Vegetables
BAT 34	BAT Conclusions for Starch Production
BAT 35 – 37	BAT Conclusions for Sugar Manufacturing

This annex provides a record of decisions made in relation to each relevant BAT Conclusion applicable to the installation. This annex should be read in conjunction with the Consolidated Variation Notice.

The overall status of compliance with the BAT conclusion is indicated in the table as:

NA - Not Applicable

**CC – Currently Compliant** 

FC - Compliant in the future (within 4 years of publication of BAT Conclusions)

**NC – Not Compliant** 

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BATC No.	Summary of BAT Conclusion requirement for Food, Drink and Milk Industries	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
GEN	ERAL BAT CONCLUSIONS (BAT 1-15)		
1	Environmental Management System - Improve overall environmental performance.  Implement an EMS that incorporates all the features as described within BATc 1.	СС	The operator has provided information to support compliance with BATc 1. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 1.  An ISO 14001 and 45001 IMS accreditation certificate has been provided in support of compliance.  The operator declared future compliance with BATc:  • (iv)(v)(vi)(viii)(ix)(x)(xi)(xii)(xiii)(xiv)(xvi)(xvi
2	EMS Inventory of inputs & outputs. Increase resource efficiency and reduce emissions.  Establish, maintain and regularly review (including when a significant change occurs) an inventory of water, energy and raw materials consumption as well as of waste water and waste gas streams, as part of the environmental management system (see BAT 1), that incorporates all of the features as detailed within the BATCs.	СС	The operator has provided information to support compliance with BATc 2. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 2.  The Operator has declared future compliance with all requirements of BATc 2 (I)(II)(III)(IV)(V)(VI). However, having provided accreditation certificates, ISO14001 and IMS45001, we consider the Operator to be compliant.
3	Monitoring key process parameters at key locations for emissions to water.  For relevant emissions to water as identified by the inventory of waste water streams (see BAT 2), BAT is to monitor key process parameters (e.g. continuous monitoring of waste water flow, pH and temperature) at key locations (e.g. at the inlet and/or outlet of the pre-treatment, at the inlet to the final treatment, at the point where the emission leaves the installation).	NA	We are satisfied that BATc 4 is not applicable in this situation as all wastewater is discharged to sewer for treatment by Yorkshire water treatment works. This BATc applies to direct discharges of process effluent only.

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BATC No.	Summary of BAT Conclusion requirement for Food, Drink and Milk Industries	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			This site produces dry pet food, thus resulting in little wastewater being generated.
4	Monitoring emissions to water to the required frequencies and standards. BAT is to monitor emissions to water with at least the frequency given [refer to BAT 4 table in BATc] and in accordance with EN standards. If EN standards are not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality.	NA	We are satisfied that BATc 4 is not applicable in this situation as all wastewater is discharged to sewer for treatment by Yorkshire water treatment works. This BATc applies to direct discharges of process effluent only.  This site produces dry pet food, thus resulting in little wastewater being generated.
5	Monitoring channelled emissions to air to the required frequencies and standards.  BAT is to monitor channelled emissions to air with at least the frequency given and in accordance with EN standards.	СС	The operator has provided information to support compliance with BATc 5. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 5.  The Operator is monitoring air emissions of dust using the EN 13284-1 standard via a MCERTS accredited contractor for the following emission points:  • A2 – grinder  • A3 – drier/cooler  The requirement for annual monitoring of particulate matter has been included in the permit from date of issue to ensure compliance with BATc 5.
6	Energy Efficiency In order to increase energy efficiency, BAT is to use an energy efficiency plan (BAT 6a) and an appropriate combination of the common techniques listed in technique 6b within the table in the BATc.	FC	The Operator declared that an Energy Efficiency Plan is currently being developed and compliance with this BATc will be achieved by 04/12/2023. In relation to part (b) of this BATc, the following energy efficiency techniques are used:  • Energy efficient motors • LED lighting • Minimising the blowdown from the boiler • Preheating feedwater • Process control systems • Reducing heat loss through insulation

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BATC No.	Summary of BAT Conclusion requirement for Food, Drink and Milk Industries	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
			<ul> <li>Variable speed drives</li> <li>Use of solar energy</li> <li>We consider that the operator will be future compliant with BATc 6(a). Improvement condition IC12 has been included in the permit to achieve compliance (see Annex 3).</li> </ul>
7 Water and wastewater minimisation In order to reduce water consumption and the volume of waste water discharged, BAT is to use BAT 7a and one or a combination of the techniques b to k given below.  (a) water recycling and/or reuse (b) Optimisation of water flow  The operator oper		The operator has provided information to support compliance with BATc 7. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 7.  The operator declared using 'Cleaning as soon as possible' is the only method used that is applicable to this installation.	
8	Prevent or reduce the use of harmful substances In order to prevent or reduce the use of harmful substances, e.g. in cleaning and disinfection, BAT is to use one or a combination of the techniques given below.  (a) Proper selection of cleaning chemicals and/or disinfectants (b) Reuse of cleaning chemicals in cleaning-in-place (CIP) (c) Dry cleaning (d) Optimised design and construction of equipment and process areas	FC	The Operator declared future compliance will be achieved by 04/12/2023. The operator has procedures in place however, these are not specifically to prevent or reduce the use of harmful substances.  We consider that the operator will be future compliant with BATc 8. Improvement condition IC12 has been included in the permit to achieve compliance (see Annex 3).
9	Refrigerants	NA	We are satisfied that BATc 9 is not applicable to this installation.

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BATC No.	Summary of BAT Conclusion requirement for Food, Drink and Milk Industries	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	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.		There are no reported refrigeration, chilling or freezing units used in the production process, or required cold storage of the raw and/or final product in this installation.
10	Resource efficiency In order to increase resource efficiency, BAT is to use one or a combination of the techniques given below: (a) Anaerobic digestion (b) Use of residues (c) Separation of residues (d) Recovery and reuse of residues from the pasteuriser (e) Phosphorus recovery as struvite (f) Use of waste water for land spreading	CC	The operator has provided information to support compliance with BATc 10. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 10.  The Operator has stated that product waste is removed from site and processed either through anaerobic digestion or used to generate energy from fuel.
11	Waste water buffer storage In order to prevent uncontrolled emissions to water, BAT is to provide an appropriate buffer storage capacity for waste water.	NA	We are satisfied that BATc 11 is not applicable to this installation.  The Operator declared that there is no process water stored on site and all wastewater is directed to the Yorkshire wastewater treatment via sewer.  This site produces dry pet food resulting in little wastewater being generated.
12	Emissions to water – treatment In order to reduce emissions to water, BAT is to use an appropriate combination of the techniques given below. Preliminary, primary and general treatment (a) Equalisation (b) Neutralisation (c) Physical separate (eg screens, sieves, primary settlement tanks etc) Aerobic and/or anaerobic treatment (secondary treatment) (d) Aerobic and/or anaerobic treatment (eg activated sludge, aerobic lagoon etc) I Nitification and/or denitrification (f) Partial nitrati–n - anaerobic ammonium oxidation Phosphorus recovery and/or removal	NA	We are satisfied that BATc 12 is not applicable to this installation.  The site has no direct emission of water with all wastewater discharged to sewer leading to Yorkshire water treatment works.  This site produces dry pet food resulting in little wastewater being generated.

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BATC No.	Summary of BAT Conclusion requirement Industries	ent for Food, Drink and Milk	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	<ul><li>(g) Phosphorus recovery as struvite</li><li>(h) Precipitation</li><li>(i) Enhanced biological phosphorus remov</li><li>Final solids removal</li><li>(j) Coagulation and flocculation</li></ul>	al		
	<ul><li>(k) Sedimentation</li><li>(l) Filtration (eg sand filtration, microfiltration</li><li>(m) Flotation</li></ul>	n, ultrafiltration)		
12	Emissions to water – treatment BAT-associated emission levels (BAT-A receiving water body	ELs) for direct emissions to a	NA	We are satisfied that BATc 12 is not applicable to this installation.  The site has no direct emission of water with all wastewater discharged to sewer leading to Yorkshire water treatment works.
	Parameter	BAT-AEL (¹) (²) (daily average)		This site produces dry pet food resulting in little
	Chemical oxygen demand (COD) (3) (4)	25-100 mg/l ( <sup>5</sup> )		wastewater being generated.
	Total suspended solids (TSS)	4-50 mg/l (°)		
	Total nitrogen (TN)	2-20 mg/l ( <sup>7</sup> ) ( <sup>8</sup> )		
	Total phosphorus (TP)	0,2-2 mg/l ( <sup>9</sup> )		
13	Noise management plan		NA	We are satisfied that BATc 13 is not applicable to
	In order to prevent or, where that is not practicable, to reduce noise emissions, BAT is to set up, implement and regularly review a noise management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements:  - a protocol containing actions and timelines;  - a protocol for conducting noise emissions monitoring;  - a protocol for response to identified noise events, eg complaints;  - a noise reduction programme designed to identify the source(s), to measure/estimate noise and vibration exposure, to characterise the contributions of the sources and to implement prevention and/or reduction measures.			this Installation.  A noise management plan is only required where noise nuisance at sensitive receptors is expected or has been substantiated. There have been no substantiated noise nuisance from the site therefore an NMP is not a requirement for this site.

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BATC No.	Summary of BAT Conclusion requirement for Food, Drink and Milk Industries	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
14	Noise management In order to prevent or, where that is not practicable, to reduce noise emissions, BAT is to use one or a combination of the techniques given below.  (a) Appropriate location of equipment and buildings  (b) Operational measures  (c) Low-noise equipment  (d) Noise control equipment  (e) Noise abatement	FC	The documents submitted as part of Reg. 61 Response do not address any of the points, (a)(b)(c)(d) or (e), shown in this BATc. The Operator declared compliance will be achieved by 04/12/2023. We consider that the operator will be future compliant with BATc 14. Improvement condition 12 has been included in the permit to achieve compliance (see Annex 3).
15	Odour Management In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to set up, implement and regularly review an odour management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements:  - a protocol containing actions and timelines;  - a protocol for conducting odour monitoring.  - a protocol for response to identified odour incidents eg complaints;  - an odour prevention and reduction programme designed to identify the source(s); to measure/estimate odour exposure: to characterise the contributions of the sources; and to implement prevention and/or reduction measures.	CC	The Operator stated that compliance will be achieved by 04/12/2023.  An Odour Management Plan (OMP) has previously been received and approved by the Environment Agency, implemented as a result of an improvement program (ICs 10 and 11) and included as a component of the Subsistence Charge.
PET F	FOOD BAT CONCLUSIONS (BAT 16-17)		
	Energy efficiency – Green fodder only In order to increase energy efficiency in green fodder processing, BAT is to use an appropriate combination of the techniques specified in BAT 6 and of the techniques given below.  (a) Use of predried fodder  (b) Recycling of waste gas from the dryer  (c) Use of waste heat for pre-drying  Applicable in addition to BAT6	NA	The site does not process green fodder.  We are therefore satisfied that BATc 16 is not applicable for this site.
	Emissions to air – particulates In order to reduce channelled dust emissions to air, BAT is to use one of the techniques given; a. bag filter, b. cyclone.	cc	The operator has provided information to support compliance with BATc 17. We have assessed the information provided and we are satisfied that the

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BATC No.	Summary of BAT Conclu Industries	usion requirement for Fo	ood, Drink and Milk	Status NA/ CC / FC / NC	Assessment of the installation capability and any alternative techniques proposed by the operator to demonstrate compliance with the BAT Conclusion requirement
	Note: There is no BAT-AEL an ELV to ensure this paral based on what the operator should be in line with the congrinding and/or 20mg/m³ for derogation ins required if the have the correct abatemen	meter is adequately contron r can achieve (if monitorin compound animal feed BAT or cooling). However, as it the operator cannot achieve	g data is available) and Γ-AELs (10mg/m³ for is not a BAT-AEL, no e this. We will ensure they		operator has demonstrated compliance with BATc 17.  The air emission abatement method used in the production process involves the capturing of particulate matter emitted from grinders and coolers and continually reintroducing it back into the production process.  We take this opportunity to include in the consolidated permit the following upper ELVs for: Grinding – A9 – 10 mg/m³  Extrusion and grinding – A11 – 10 mg/m³
	Animal Feed Environmen	tal Performance Levels			
EPL	Dry pet food  Wet pet food  (1) The lower end of the range can be achiev (2) The specific energy consumption level ma	Unit MWh/tonne of products	Specific energy consumption (yearly average)   0.01-0.10 (1)(2)(3)   0.39-0.50   0.33-0.85   d as raw material.	CC	The operator has provided information to support compliance with BATc 17. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 17.  The operator reports that between during 2021 the site achieved a specific energy consumption of 0.35 MWh/Tonne, which is within the EPL range.
EPL	Environmental performar Product Wet pet food	Unit m3/tonne of products	Specific waste water discharge (yearly average) 1.3-2.4	NA	We are satisfied this EPL does not apply to this installation.  The installation only produces dry pet food and there is little wastewater being generated in the production process that is being discharged to sewer.

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## Annex 2: Review and assessment of changes that are not part of the BAT Conclusions derived permit review

#### Updating permit during permit review consolidation

- Introductory note updated
- Site plan
- Table S1.1 overhaul
  - Activity Reference (AR) renumbering
  - Updated listed activities
  - o Addition of production capacity
  - o Directly associated activities (DAAs) standardisation

We have updated permit conditions to those in the current generic permit template as a part of permit consolidation. The conditions will provide the same level of protection as those in the previous permit.

#### **Capacity Threshold**

The Environment Agency is looking to draw a "line in the sand" for permitted production capacity; a common understanding between the Operator and regulator for the emissions associated with a (maximum) level of production, whereby the maximum emissions have been demonstrated as causing no significant environmental impact.

We have included a permitted production level (capacity) within table S1.1 of the permit for the section 6.8 listed activity and we need to be confident that the level of emissions associated with this production level have been demonstrated to be acceptable.

The Operator has completed a H1 assessment of emissions for typical figures of production at the time of permitting.

The existing H1 assessment of particulate emissions to air remains valid for the revised capacity threshold now placed within table S1.1 of the permit.

#### **Emissions to Air**

We asked the operator to list all emission points to air from the installation in the Regulation 61 notice and to provide a site plan indicating the locations of all air emission points.

The operator has provided an up to date air emission plan.

Implementing the requirements of the Medium Combustion Plant Directive

We asked the Operator to provide information on all combustion plant on site in the Regulation 61 Notice as follows:

• Number of combustion plant (CHP engines, back-up generators, boilers);

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- Size of combustion plant rated thermal input (MWth)
- Date each combustion plant came into operation

The Operator provided the information in the table below:

#### Boilers

Rated thermal input (MW) of the medium combustion plant.	1.2 MWth
2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Boiler
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	Natural gas
4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.	1990

We have reviewed the information provided and we consider that the declared combustion plant qualify as "existing" medium combustion plant.

For existing MCP with a rated thermal input of less than or equal to 5 MW, the emission limit values set out in tables 1 and 3 of Part 1 of Annex II MCPD shall apply from 1 January 2030.

We have included the appropriate emission limit values for existing medium combustion plant as part of this permit review. See Table S3.1 in the permit. We have also included a new condition 3.1.4 within the permit which specifies the monitoring requirements for the combustion plant in accordance with the MCPD.

#### **Particulate Emissions**

BAT-AELs are derived for those substances identified as key environmental issues during the BREF review process.

If the operator has identified current compliance against BAT-AELs we will implement the relevant emission limit value (ELV) from the date of permit issue. This is relevant for emission points A9 and A11 against BAT 17 for dust emissions from the bag filter.

We have incorporated an improvement condition (IC13) to ensure the monitoring is carried out as soon as reasonably practical prior to December 2023 for these emission points

We have added an improvement condition (IC14) for size fractionation of particulate emissions because a BAT-AEL applies for dust emissions to air. The justification for this IC is that there are a number of activities within the FDM sector which may result in release of particulates to air e.g. drying, milling and grinding. Overall there is little available information on how much fine particulates are released. This IC is a one-off exercise requiring operators to monitor and report on the fractions of fine particulate

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(PM<sub>10</sub> and PM<sub>2.5</sub>) emissions and increase our understanding of potential health effects. Where BAT-AELS may apply to multiple emission points e.g. grain milling, we may accept limited representative monitoring rather than expecting them to monitor every single emission point.

#### <u>Emissions to Water and implementing the requirements of the Water</u> Framework Directive

We asked the Operator to provide information on all emissions to water at the installation in the Regulation 61 Notice as follows;

- Identify any effluents which discharge directly to surface or groundwater;
- Provide an assessment of volume and quality, including results of any monitoring data available;
- and for any discharges to water / soakaway whether a recent assessment of the feasibility of connection to sewer has been carried out.

The operator has previously provided assessments for all emissions to water at the installation. The operator declares there has been no change to activities and subsequent effluents generated at the installation since this risk assessment was taken. Consequently, we agree that the original risk assessments remain valid at this time.

#### Soil & groundwater risk assessment (baseline report)

The IED requires that the operator of any IED installation using, producing or releasing "relevant hazardous substances" (RHS) shall, having regarded the possibility that they might cause pollution of soil and groundwater, submit a "baseline report" with its permit application. The baseline report is an important reference document in the assessment of contamination that might arise during the operational lifetime of the regulated facility and at cessation of activities. It must enable a quantified comparison to be made between the baseline and the state of the site at surrender.

At the definitive cessation of activities, the Operator has to satisfy us that the necessary measures have been taken so that the site ceases to pose a risk to soil or groundwater, taking into account both the baseline conditions and the site's current or approved future use. To do this, the Operator has to submit a surrender application to us, which we will not grant unless and until we are satisfied that these requirements have been met.

The Operator submitted a site condition report [designated BUR/ENV/05 in the application documents, complied by Hutchinson and Whitlam Associates, Consulting civil and structural engineers, Fairfax House, 38 The Grove, Ilkely, West Yorkshire, LS29 9EE] during the original application received on 07/10/2004. The site condition report included a report on the baseline conditions as required by Article 22. We reviewed that report and considered that it adequately described the condition of the soil and groundwater at that time.

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#### **Hazardous Substances**

Hazardous substances are those defined in Article 3 of Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures

The operator has provided a short risk assessment on the hazardous substances stored and used at the installation. The risk assessment was a stage 1-3 assessment as detailed within EC Commission Guidance 2014/C 136/03.

The stage 1 assessment identified the hazardous substances used / stored on site. The stage 2 assessment identified if hazardous substances are capable of causing pollution. If they are capable of causing pollution they are then termed Relevant Hazardous Substances (RHS). The Stage 3 assessment identified if pollution prevention measures are fit for purpose in areas where hazardous substances are used / stored. This includes drains as well.

The outcomes of the three stage assessment identified that pollution of soil and/or ground water to be unlikely.

#### **Climate Change Adaptation**

The operator has considered if the site is at risk of impacts from adverse weather (flooding, unavailability of land for land spreading, prolonged dry weather / drought).

The operator has stated that the installation is not likely to be or has previously not been affected by climate change.

#### Containment

We asked the Operator vis the Regulation 61 Notice to provide details of the each above ground tanks which contain potentially polluting liquids at the site, including tanks associated with the effluent treatment process where appliable.

The Operator provided details of all tanks;

- Tank reference/name
- Contents
- Capacity (litres)
- Location
- Construction material(s) of each tank
- The bunding specification including
  - Whether the tank is bunded
  - If the bund is shared with other tanks
  - The capacity of the bund
  - The bund capacity as % of tank capacity
  - Construction material of the bund
  - Whether the bund has a drain point
  - Whether any pipes penetrate the bund wall
- Details of overfill prevention

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- Drainage arrangements outside of bunded areas
- Tank filling/emptying mitigation measures (drips/splashes)
- Leak detection measures
- Details of when last bund integrity test was carried out
- Maintenance measures in place for tank and bund (inspections)
- How the bund is emptied
- Details of tertiary containment

and whether the onsite tanks currently meet the relevant standard in the Ciria "Containment systems for the prevention of pollution (C736)" report.

We reviewed the information provided by the operator. We are satisfied that the existing tanks and containment measures on site meet the standards set out in CIRIA C736.

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#### **Annex 3: Improvement Conditions**

Based on the information in the Operator's Regulation 61 Notice response and our own records of the capability and performance of the installation at this site, we consider that we need to set improvement conditions so that the outcome of the techniques detailed in the BAT Conclusions are achieved by the installation. These improvement conditions are set out below - justifications for them is provided at the relevant section of the decision document (Annex 1 or Annex 2).

Previous improvement conditions marked as complete in the previous permit.

Superseded Improvement Conditions – Removed from permit as marked as "complete"			
Reference	Improvement Condition		
IC1	The Operator shall make an assessment of potentially contaminated surface water from the interceptor into the soakaways and identify measures for minimising the risk such as the installation of high level alarm warning systems on the interceptor having regard to the Agency Sector Guidance Note SGN IPPC 6.10 section 2.2.5. A report of the findings shall be submitted to the Agency.		
IC2	The Operator shall demonstrate the application of an appropriate, effective and structured leak detection and repair system for process equipment, raw material transfer into vessels, air emission abatement equipment and pipework having regard for the Agency Sector Guidance Note SGN IPPC 6.10 section 2.2. The Operator shall produce an action plan to implement improvements identified that shall be supplied to the Agency.		
IC3	The Operator shall undertake an assessment of the surfacing from tanks, bunds, pipe work, process, storage and other equipment. The assessment shall take into account Agency Sector Guidance Note SGN IPPC 6.10 section 2.2.5. A report on the findings shall be submitted to the Agency.		
IC4	The Operator shall revise the Burgess accident plan for normal and abnormal activities having regard for the Agency Sector Guidance Note SGN IPPC S6.10 s2.8. The methodology to be employed, scope and objectives shall be agreed in writing with the Environment Agency prior to commencement. A report on the findings, proposed actions, with timescale for implementation will be supplied to the Agency.		
IC5	The Operator shall undertake monitoring of particulate emissions within 6 months of issue of the permit to demonstrate compliance with Agency Sector Guidance Note SGN IPPC S6.10 s2.10. The Operator shall agree the monitoring method with the Agency prior to commencement and submit a copy of the results to the Agency.		
IC6	The Operator shall fully develop and implement a documented system of management techniques, having regard for the Agency Sector Guidance Note SGN IPPC 6.10 s2.3.		
IC7	The Operator shall produce a written operating and maintenance procedure for the scrubber system and conduct a review of its operation. The procedure and a written report summarising the findings shall be submitted to the Agency. A timescale for implementation of any improvements shall be agreed with the Agency.		

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IC8	The Operator shall review the bag filter maintenance programme with regard to the frequency of assessment of filters. A written report summarising the findings shall be submitted to the Agency. A timescale for implementation of any improvements shall be agreed with the Agency.
IC9	The Operator shall review the bag filter and scrubber monitoring procedures with regard to the type and frequency of the monitoring undertaken. A written report of the findings with timescales for any improvements shall be agreed with the Agency.
IC10	Submit a written report to the Environment Agency for approval describing the performance and optimisation measures taken to minimise emissions of odour from the odour abatement system. The report shall include an assessment of the level of odour reduction that can be achieved under optimum operating conditions. The report must contain dates for implementation of individual measures identified.  The notification requirements of condition 1.4.1 will be deemed to have been complied with on submission of the plan.  You must implement the findings of the report as approved, and from the date stipulated by the Environment Agency.
IC11	The Operator shall undertake sampling to submit to the Environment Agency a written assessment of particulate emission to air emission point reference 'A3' once the system has been fully optimised for odour reduction. Quantitative monitoring data shall be used to provide a site specific risk assessment for impacts to air using the Environment Agency H1 'Annex F' method or similar method as approved. The report must contain the dates for implementation of individual measures identified.  The notification requirements of condition 1.4.1 will be deemed complied with on submission of the assessment.  You must implement the findings of the assessment as approved, and from the date stipulated by the Environment Agency.

The following improvement conditions have added to the permit as a result of the variation.

Improvement programme requirements				
Reference	Reason for inclusion	Justification of deadline		
IC12	The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving the 'Narrative' BAT where this is currently not achieved, but will be achieved before 4 December 2023. The report shall include, but not be limited to, the following:  1) Methodology for achieving BAT	04/12/2023		

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	2)Associated targets /timelines for reaching compliance by 4 December 2023 3) Any alterations to the initial plan (in progress reports). The report shall address the BAT Conclusions for Food, Drink and Milk Industries with respect to BAT 6, 8, and 14. Refer to BAT Conclusions for a full description of the BAT requirement.	
IC13	The operator shall submit, for approval by the Environment Agency, a report setting out progress to achieving the Best Available Techniques Conclusion Associated Emission Levels (BAT-AELs) where BAT is currently not achieved, but will be achieved before 4 December 2023. The report shall include, but not be limited to, the following:  1) Current performance against the BAT-AELs. 2) Methodology for reaching the BAT-AELs. 3) Associated targets /timelines for reaching compliance by 4 December 2023. 4) Any alterations to the initial plan (in progress reports). The report shall address the BAT Conclusions for Food, Drink and Milk industries with respect to the following:  • BAT 17 Table 4 (compliance with BAT-AELs for channelled dust emissions to air from grinding and pellet cooling in compound feed manufacture) Refer to BAT Conclusions for a full description of the BAT requirement.	04/12/2023
IC14	The Operator shall submit a written report to the Environment Agency of monitoring carried out to determine the size distribution of particulate matter in the exhaust gas emissions to air from emission points A9 and A11 identifying the fractions within the PM10 and PM2.5 ranges. The monitoring shall be carried out under representative operating conditions and shall be in accordance with EN ISO 23210 unless otherwise agreed with the Environment Agency.	12 months from permit issue or other date as agreed in writing with the Environment Agency

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