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/XP3537PJ

The Operator is: Greencore Prepared Foods Limited

The Installation is: Waleswood Food Factory
This Variation Notice number is: EPR/XP3537PJ/V009

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 4th 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.

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

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 30/07/2021 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 01/11/2021.

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.

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 BATc 6 Energy Efficiency Plan. The operator currently has not demonstrated compliance with the requirements of BATc 6. In relation to this BAT Conclusion, the operator has committed to demonstrate in writing that the BAT requirements for this BAT Conclusion were in place on or before 4 December 2023. We have therefore included Improvement Condition IC2 in the Consolidated Variation Notice to ensure that the requirements of the BAT Conclusions were delivered before or by 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 4/01/2024 requesting information as to whether the site Environmental Management System had been fully developed and information/a copy of the sites Energy Efficiency Plan. 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.

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-AELs):

| 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

| 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. | CC | 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. At the time of submission of the Reg 61 response there were elements of the management system still in development. The operator however has since confirmed that Greencore is developing a central integrated health, safety and environmental management system which provides the framework and direction for the individual sites to follow. They confirm the sites have local procedures for operation, which comply with the requirements of the central system. They also confirm this system is aligned (but not accredited) with ISO.14001. The central system is still being developed and rolled out however the operator confirms the |
| | | | sites day to day management procedures are in place and aligned with BAT. |
| 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. | CC | 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 confirms water, energy consumption, raw materials and waste streams are monitored and tracked with the data used to generate improvement projects. |

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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 |
|-------------|--|----------------------------|--|
| | | | Performance is reported at a group level on a monthly basis. The EMS and business improvement programmes provides the governance for the setting, reporting and reviewing of objectives and targets with respect to consumption and usage. |
| 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). | cc | The operator has provided information to support compliance with BATc 3. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 3. Site effluent flow is continually monitored at the inlet and outlet along with pH and temperature. In addition Chemical Oxygen Demand (COD) and Suspended Solids are measured in line with the Trade Effluent Consent. |
| 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. | N/A | BATc 4 applies in the case of direct discharge of effluent to a water body. All process effluent from the site is discharged to sewer. We are therefore satisfied that BATc 4 is not applicable for this site |
| 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. | N/A | BATc 5 sets out air emissions monitoring requirements applicable to specific FDM subsectors. None of these monitoring requirements are applicable to this site as the activities undertaken (ready meal manufacture) are not specified in the sector and specific processes set out in BATc 5. We are therefore satisfied that BATc 5 is not applicable to this site. |
| 6 | Energy Efficiency | FC | The operator has provided information to support compliance with BATc 6. We have |

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|-------------|---|----------------------------|---|
| | 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. | | assessed the information provided and we are not satisfied that the operator has demonstrate compliance with BATc 6. |
| | | | The operator stated their Energy Efficiency Plan includes monitoring, measuring, tracking and reporting energy consumption and is under review. However when questioned they did not provide the plan and referred to their membership of the Energy Savings Opportunities Scheme (ESOS). |
| | | | This is not sufficient. ESOS is an audit process and shows good practice but an EEP is required to embed the outcomes. We have therefore included IC2 in order to enable the operator to demonstrate compliance. |
| | | | The operator confirmed the following energy saving techniques are used on site: |
| | | | Burner control and management on combustion plant. PLC systems optimise the process including cooling plant operating on different loads, variable speed drives pumps, fans and motor. Site configuration is optimised to reduce inefficiency in steam/hot water distribution. Insulation Compressed air leak surveys Lighting efficiency upgrades |
| 7 | Water and wastewater minimisation | СС | The operator has provided information to support compliance with BATc 7. We have |
| | 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. | | assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATC 7. |

| 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 |
|-------------|--|----------------------------|--|
| | (a) water recycling and/or reuse (b) Optimisation of water flow (c) Optimisation of water nozzles and hoses (d) Segregation of water streams Techniques related to cleaning operations: (e) Dry cleaning (f) Pigging system for pipes (g) High-pressure cleaning (h) Optimisation of chemical dosing and water use in cleaning-in-place (CIP) (i) Low-pressure foam and/or gel cleaning (j) Optimised design and construction of equipment and process areas (k) Cleaning of equipment as soon as possible | | The operator has confirmed they implement the following water minimisation activities: CIP is used in 3 manufacturing units to enable water reuse Water control devices are used across the site to automatically adjust the volume and flow to meet operational needs Water pressure restrictors, flow control and number of hoses are optimised across the site Site drains direct uncontaminated water away from the ETP Clean as you go policy in place along with dry cleaning of surface and equipment CIP is optimised through the use of dosing hazard analysis and critical control point (HACCP) and associated set points comprising pH, conductivity, temperature and cleanliness testing that determine chemical dosing required Low pressure foam/gel cleaning is employed for walls and floors. Optimised design of new plant and processing lines. New equipment installations go through HAZOP and HACCP process to identify any potential issues including water use optimisation. |
| 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) | СС | The operator has provided information to support compliance with BATc 8. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 8. |

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|-------------|--|----------------------------|--|
| | (c) Dry cleaning (d) Optimised design and construction of equipment and process areas | | |
| | (u) Optimised design and construction of equipment and process areas | | The operator has provided a list of chemicals used on site and undertaken an assessment of their discharge to sewer from site along within a Relative Hazardous Substance stage 1-3 assessment as detailed further within this document. |
| | | | Chemicals are sourced from a specialist supplier who advise on their selection and formulations with minimal environmental impact. |
| | | | Reuse, dry cleaning and CIP optimisation checks are carried out as detailed above. |
| 9 | Refrigerants 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. | cc | The operator has provided information to support compliance with BATc 9. We have assessed this information and we are not satisfied the operator has demonstrated compliance with BATc 9. |
| | | | The operator has provided an inventory of refrigeration systems. Some systems associated with the manufacturing process use refrigerants with high GWP including R404A, R410A and R422D. |
| | | | The inventory includes details of the plant age, whether they are appropriate to be retro filled with lower GWP alternative and the associated cost. The inventory is also used to report equipment maintenance frequency and gas losses/charge per calendar year. Losses are reported and accounted for by the wider Greencore Group. |

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|-------------|---|----------------------------|---|
| | | | The operator confirms reviews are carried out with the refrigeration contractor to plan how changes in legislation will affect the site's refrigerant systems. |
| | | | They confirm the high GWP systems are being replaced ahead of the regulatory timetable. For units where replacement of gases is not possible, depending on criticality they will be managed on a run to fail basis or replaced in line with plant upgrades and efficiency programmes. |
| 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 | 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. |
| | (d) Recovery and reuse of residues from the pasteuriser (e) Phosphorus recovery as struvite (f) Use of waste water for land spreading | | The operator confirmed there are procedures in place to prevent waste and to send food residues and DAF sludge offsite for anaerobic digestion. |
| | | | They also confirm they continuously review options for re-using residues however it is not currently feasible to achieve complete segregation for animal byproducts. |
| | | | A colour coded system is implemented where specific bags and dolavs are designated for certain waste/residues. |
| | | | Raw effluent is screened to separate solids which are disposed of with food waste. |
| 11 | Waste water buffer storage | СС | The operator has provided information to support compliance with BATc 11. We have |

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|-------------|--|----------------------------|--|
| | In order to prevent uncontrolled emissions to water, BAT is to provide an appropriate buffer storage capacity for waste water. | | assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 11. |
| | | | The site has a 3 x 35m³ buffer tanks to contain trade effluent on site prior to discharge, also included is an effluent sump (10m³). This provides 10 hours retention at normal site flow which provides the site with enough time to isolate any hazardous spillages to the ETP and prevent discharge. |
| | | | Clean surface water from roads and roofs is discharged offsite via 4 surface water emission points. These are served by interceptors and have emergency shut off valves that can be closed in event of emergency. |
| 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) (e) Nitification and/or denitrification (f) Partial nitration - anaerobic ammonium oxidation Phosphorus recovery and/or removal (g) Phosphorus recovery as struvite (h) Precipitation (i) Enhanced biological phosphorus removal Final solids removal (j) Coagulation and flocculation | CC | The operator has provided information to support compliance with BATc 12. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 12. The operator treats all process water on site within the permitted effluent treatment plant prior to discharge to Yorkshire Water sewer. The on-site effluent treatment plant incorporated screening, pH adjustment and Dissolver Air Flotation (DAF) |

| BATC No. | Summary of BAT Conclusion require Industries | ement 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 |
|-------------|--|--|----------------------------|--|
| | (k) Sedimentation | | | |
| | (I) Filtration (eg sand filtration, microfilti | ation, ultrafiltration) | | |
| 12 | Emissions to water – treatment BAT-associated emission levels (BAT-AELs) for direct emissions to a receiving water body | | N/A | The site discharges process effluent to the foul sewer, there are no direct discharges to the water course, as such BAT-AELs do not apply. We are therefore satisfied that BAT AELs |
| | Parameter | BAT-AEL (¹) (²) (daily average) | | associated with BATc 12 is not applicable for |
| | Chemical oxygen demand (COD) (3) (4) | 25-100 mg/l (⁵) | | this site. |
| | Total suspended solids (TSS) | 4-50 mg/l (°) | | |
| | Total nitrogen (TN) | 2-20 mg/l (⁷) (⁸) | | |
| | Total phosphorus (TP) | 0,2-2 mg/l (⁹) | | |
| 13 | Noise management plan In order to prevent or, where that is not practicable, to reduce noise emissions, | | CC | A noise management plan is only required where noise nuisance at sensitive receptors is |
| | 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: | | | 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. |
| | - a protocol containing actions and time | | | requirement for the exec. |
| | - a protocol for conducting noise emissions monitoring; | | | We are therefore satisfied that BATc 13 is not |
| | - 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. | applicable for this site. | | |
| 14 | Noise management | | СС | The operator has provided information to |
| | In order to prevent or, where that is not BAT is to use one or a combination of the state of the | practicable, to reduce noise emissions, he techniques given below. | | support compliance with BATc 14. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 14. |
| | (a) Appropriate location of equipment a | nd buildings | | |
| | (b) Operational measures | | | Somples in the second s |
| | (c) Low-noise equipment | | | |

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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 | |
|-------------|---|----------------------------|---|--|
| | (d) Noise control equipment (e) Noise abatement | | The operator has stated the following considerations related to noise: | |
| | | | All installed and commissioned plant and equipment is inspected and maintained under planned preventative maintenance in line with supplier. Equipment performance is part of the procurement specification which considers the use and applicability of low noise equipment or equipment enclosure. The design of any new plant will include features to reduce plant noise leakage, sound suppression to external equipment and quiet fan assemblies. | |
| 15 | Odour Management | CC | An odour management plan is only required | |
| | 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: | | where odour nuisance at sensitive receptors is expected or has been substantiated. There have been no substantiated odour nuisance from the site therefore an OMP is not a requirement for this site. | |
| | - a protocol containing actions and timelines; | | requirement for this site. | |
| | - a protocol for conducting odour monitoring. | | We are therefore satisfied that BATc 15 is not | |
| | - a protocol for response to identified odour incidents eg complaints; | | applicable for this site. | |
| | - 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. | | | |

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

Updating permit during permit review consolidation

- Activity name
- Introductory note (Site plan
- Table S1.1 overhaul
 - o Activity Reference (AR) renumbering
 - Updated listed activities
 - 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.

Production/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 permit was varied in September 2012 to increase production capacity and capacity remains the same.

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.

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

The Operator provided the information in the table(s) below:

Combined heat and power (CHP) engines

| 1. Rated thermal input (MW) of the medium combustion plant. | 3.6MWth |
|---|------------------|
| 2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant). | CHP engine (A7a) |
| 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. | May 2020 |

Boilers

| | A6 | A7b | A8 |
|---|-------------|-------------|---|
| Rated thermal input (MW) of the medium combustion plant. | 4.3MWth | 4.4MWth | 4.3MWth |
| 2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant). | Boiler | Boiler | Boiler. For emergency use only. Limit of 500hrs. |
| 3. Type and share of fuels used according to the fuel categories laid down in Annex II. | Natural gas | Natural gas | 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. | Nov 2012 | May 2020 | Nov 20212 |

We have reviewed the information provided and we consider that Boilers A6 and A8 qualify as "existing" medium combustion plant. CHP A7a and Boiler A7b were permitted as new under permit variation V008 and we have retained the previous permitted limits and monitoring requirements.

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.

<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. However as above, permit variation increased site capacity.

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 during the original application received on 18TH August 2004. The Site protection and Monitoring Programme First report (WSP Environmental Report 2121251/001) submitted June 2006 provided initial reference conditions. These documents 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.

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 not identified any hazardous substances used / stored at the installation.

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
 - o 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
 - o Whether the bund has a drain point
 - Whether any pipes penetrate the bund wall
- Details of overfill prevention
- 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.

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 | Upon commissioning of the DAF (dissolved air floatation) plant as part of the effluent treatment plant (ETP), the Operator shall review the adequacy and suitability of the odour controls associated with the ETP; including the DAF plant, sludge tank and emptying of the sludge tank. The Operator shall refer to the Environment Agency's technical guidance note for odour 'H4 – Odour Management' during this review. A written report summarising the findings shall be submitted to the Environment Agency for approval. The report shall include an action plan with timescales for any improvements identified. The report and action plan must be agreed in writing by the Environment Agency. Any improvements shall be completed within the dates as agreed by the Environment Agency to close this condition. | |

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 | |
| IC2 | The operator shall submit, for approval by the Environment Agency, a report demonstrating achievement of the 'Narrative' BAT conclusions as identified in the Food, Drink and Milk Bref published on 4 December 2019 where BAT is currently not demonstrated or achieved. The report shall include, but not be limited to, the following: • Methodology applied for achieving BAT • Demonstrating that BAT has been achieved. The report shall address the BAT Conclusions for Food, Drink and Milk Industries with respect to BATc 6 Refer to BAT Conclusions for a full description of the BAT requirement. | 3 month from permit issue or other date as agreed by the Environment Agency | |