

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/AP3839NG
The Operator is: Yeo Valley
The Installation is: Crewkerne
This Variation Notice number is: EPR/AP3839NG/V005

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. It also provides a justification for the inclusion of any specific conditions in the permit that are in addition to those included in our generic permit template.

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 25/03/2022 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 25/07/2022.

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 8. The operator does not currently comply with the requirements of BATc 8. In relation to these BAT Conclusions, the operator has committed compliance by 4 December 2023. We have therefore included Improvement Condition IC6 in the Consolidated Variation Notice to ensure that the requirements of the BAT Conclusions are delivered before 4 December 2023.

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-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

| 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 |
|---|---|----------------------------|---|
| GENERAL BAT CONCLUSIONS (BAT 1-15) | | | |
| 1 | <p>Environmental Management System - Improve overall environmental performance.</p> <p>Implement an EMS that incorporates all the features as described within BATc 1.</p> | CC | <p>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.</p> <p>The operator has a EMS externally accredited to the ISO14001 standard.</p> |
| 2 | <p>EMS Inventory of inputs & outputs. Increase resource efficiency and reduce emissions.</p> <p>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.</p> | CC | <p>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.</p> <p>The EMS is externally accredited to the ISO 14001 standard. The operator also participates to Waste & Resources Action Programme (WRAP).</p> |
| 3 | <p>Monitoring key process parameters at key locations for emissions to water.</p> <p>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).</p> | CC | <p>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.</p> <p>The operator has confirmed their effluent is received by their landlord AH Warren Trust (AHW) and used for agricultural benefit under their bespoke permit number DB3301TG. The operator does not currently discharge to water but monitors COD and pH on monthly basis.</p> |
| 4 | <p>Monitoring emissions to water to the required frequencies and standards.</p> <p>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.</p> | N/A | <p>We are satisfied that BATc 4 is not applicable to this installation.</p> <p>There is no ETP on site. All process effluent is collected on site and is used for landspreading for agricultural benefit.</p> |

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| 5 | <p>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.</p> | N/A | <p>We are satisfied that BATc 5 is not applicable to this installation. BAT 5 is not relevant as there are no channelled emissions to Air other than the emissions from the onsite boilers.</p> |
| 6 | <p>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.</p> | CC | <p>The operator has provided information to support compliance with BATc 6. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 6. An energy efficiency policy statements has been provided to confirm current steps being taken towards becoming energy efficient including the following:</p> <ul style="list-style-type: none"> • Energy-efficient motors • Burner regulation and control • Process control systems • reducing compressed air system leaks • reducing heat losses by insulation • variable speed drives • use of solar energy |
| 7 | <p>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.</p> <p>(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)</p> | CC | <p>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. All techniques are currently being used apart from (f) and (g).</p> |

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| | (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 | | |
| 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 has provided information to support compliance with BATc 8. We have assessed the information provided and we are not satisfied that the operator has demonstrated compliance with BATc 8. The operator has reported that there are currently ongoing plans to ensure correct procedures are in place to assess chemicals used in the installation and identify potential alternatives less harmful to the environment. IC6 has been included in the variation for the operator to meet narrative BAT. |
| 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 the information provided and we are satisfied that the operator has demonstrated compliance with BATc 9. The operator has declared that they do not use HCFC gases with intentions to use CO2 or ammonia and the removal of HFC gases altogether. |
| 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 declared the current adherence to the following: 1. Prevent surplus and waste in the business. 2. Redistribute surplus food. 3. Make animal feed from former food. |

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| | | | 4. Recycle our food waste - anaerobic digestion. 5. Recycle our food waste - composting. 6. Recycle our food waste - land spreading. 7. Incinerate to generate energy. 8. Incinerate without generating energy. 9. Send to landfill or sewer. |
| 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. | CC | The operator has provided information to support compliance with BATc 11. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 11. |
| 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) Nitrification and/or denitrification (f) Partial nitrification - 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 (k) Sedimentation (l) Filtration (eg sand filtration, microfiltration, ultrafiltration) (m) Flotation | N/A | We are satisfied that BATc 5 is not applicable to this installation. There is no ETP on site. |

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|--------------------------------------|--|----------------------------|--|--------------------------------------|-----------------|------------------------------|---------------|---------------------|-------------------|-----------------------|----------------|-----|---|
| 12 | <p>Emissions to water – treatment BAT-associated emission levels (BAT-AELs) for direct emissions to a receiving water body</p> <table border="1" data-bbox="282 411 1211 616"> <thead> <tr> <th>Parameter</th> <th>BAT-AEL (°) (°) (daily average)</th> </tr> </thead> <tbody> <tr> <td>Chemical oxygen demand (COD) (°) (°)</td> <td>25-100 mg/l (°)</td> </tr> <tr> <td>Total suspended solids (TSS)</td> <td>4-50 mg/l (°)</td> </tr> <tr> <td>Total nitrogen (TN)</td> <td>2-20 mg/l (°) (°)</td> </tr> <tr> <td>Total phosphorus (TP)</td> <td>0,2-2 mg/l (°)</td> </tr> </tbody> </table> <p>Note: 125mg/l COD for dairy sites Note: 4mg/l TP for dairy sites</p> | Parameter | BAT-AEL (°) (°) (daily average) | Chemical oxygen demand (COD) (°) (°) | 25-100 mg/l (°) | Total suspended solids (TSS) | 4-50 mg/l (°) | Total nitrogen (TN) | 2-20 mg/l (°) (°) | Total phosphorus (TP) | 0,2-2 mg/l (°) | N/A | We are satisfied that the BAT-AELs are not applicable to this Installation as there are no direct discharges to surface water |
| Parameter | BAT-AEL (°) (°) (daily average) | | | | | | | | | | | | |
| Chemical oxygen demand (COD) (°) (°) | 25-100 mg/l (°) | | | | | | | | | | | | |
| Total suspended solids (TSS) | 4-50 mg/l (°) | | | | | | | | | | | | |
| Total nitrogen (TN) | 2-20 mg/l (°) (°) | | | | | | | | | | | | |
| Total phosphorus (TP) | 0,2-2 mg/l (°) | | | | | | | | | | | | |
| 13 | <p>Noise management plan 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:</p> <ul style="list-style-type: none"> - 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. | NA | We are satisfied that BATc 13 is not applicable to this Installation. A noise management plan has been submitted. | | | | | | | | | | |
| 14 | <p>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.</p> <ol style="list-style-type: none"> (a) Appropriate location of equipment and buildings (b) Operational measures (c) Low-noise equipment (d) Noise control equipment (e) Noise abatement | CC | The operator has provided information to support compliance with BATc 14. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 14. We are satisfied that the operator conducts a noise management survey periodically Operator uses the following methods to | | | | | | | | | | |

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| | | | <p>prevent and/or reduce noise emissions from the site.</p> <p>(a) Appropriate location of equipment and buildings (b) Operational measures (c) Low-noise equipment (d) Noise control equipment (e) Noise abatement</p> |
| 15 | <p>Odour Management</p> <p>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:</p> <ul style="list-style-type: none"> - 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. | NA | <p>We are satisfied that BATc 15 is not applicable to this Installation.</p> <p>The site is not required to maintain an odour management plan and the operator has confirmed there has never been an odour complaint at the site.</p> |
| DAIRY SECTOR BAT CONCLUSIONS (BAT 21-23) | | | |
| 21 | <p>Energy efficiency – Dairy Sector</p> | CC | <p>The operator has provided information to support compliance with BATc 21. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 21.</p> <p>The operator is currently using the following:</p> <ul style="list-style-type: none"> • Partial milk homogenisation • Energy-efficient homogeniser • Use of continuous pasteurisers • Regenerative heat exchange in pasteurisation • Precooling of ice-water |

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|---|--|----------------------------|---|---------------------------------|---|----------------------------------|--|------------------------------------|--|--|--|---|---|---|--|-----------------------------|--|--|--|
| | <p>In order to increase energy efficiency, BAT is to use an appropriate combination of the techniques specified in BAT 6 and of the techniques given below.</p> <table border="1" data-bbox="293 320 1122 850"> <thead> <tr> <th data-bbox="293 320 533 352">Technique</th> <th data-bbox="533 320 1122 352">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="293 352 533 416">(a) Partial milk homogenisation</td> <td data-bbox="533 352 1122 416">The cream is homogenised together with a small proportion of skimmed milk. The size of the homogeniser can be significantly reduced, leading to energy savings.</td> </tr> <tr> <td data-bbox="293 416 533 475">(b) Energy-efficient homogeniser</td> <td data-bbox="533 416 1122 475">The homogeniser's working pressure is reduced through optimised design and thus the associated electrical energy needed to drive the system is also reduced.</td> </tr> <tr> <td data-bbox="293 475 533 534">(c) Use of continuous pasteurisers</td> <td data-bbox="533 475 1122 534">Flow-through heat exchangers are used (e.g. tubular, plate and frame). The pasteurisation time is much shorter than that of batch systems.</td> </tr> <tr> <td data-bbox="293 534 533 611">(d) Regenerative heat exchange in pasteurisation</td> <td data-bbox="533 534 1122 611">The incoming milk is preheated by the hot milk leaving the pasteurisation section.</td> </tr> <tr> <td data-bbox="293 611 533 711">(e) Ultra-high-temperature (UHT) processing of milk without intermediate pasteurisation</td> <td data-bbox="533 611 1122 711">UHT milk is produced in one step from raw milk, thus avoiding the energy needed for pasteurisation.</td> </tr> <tr> <td data-bbox="293 711 533 770">(f) Multi-stage drying in powder production</td> <td data-bbox="533 711 1122 770">A spray-drying process is used in combination with a downstream dryer, e.g. fluidised bed dryer.</td> </tr> <tr> <td data-bbox="293 770 533 850">(g) Precooling of ice-water</td> <td data-bbox="533 770 1122 850">When ice-water is used, the returning ice-water is pre-cooled (e.g. with a plate heat exchanger), prior to final cooling in an accumulating ice-water tank with a coil evaporator.</td> </tr> </tbody> </table> <p>Applicable in addition to BAT6</p> | Technique | Description | (a) Partial milk homogenisation | The cream is homogenised together with a small proportion of skimmed milk. The size of the homogeniser can be significantly reduced, leading to energy savings. | (b) Energy-efficient homogeniser | The homogeniser's working pressure is reduced through optimised design and thus the associated electrical energy needed to drive the system is also reduced. | (c) Use of continuous pasteurisers | Flow-through heat exchangers are used (e.g. tubular, plate and frame). The pasteurisation time is much shorter than that of batch systems. | (d) Regenerative heat exchange in pasteurisation | The incoming milk is preheated by the hot milk leaving the pasteurisation section. | (e) Ultra-high-temperature (UHT) processing of milk without intermediate pasteurisation | UHT milk is produced in one step from raw milk, thus avoiding the energy needed for pasteurisation. | (f) Multi-stage drying in powder production | A spray-drying process is used in combination with a downstream dryer, e.g. fluidised bed dryer. | (g) Precooling of ice-water | When ice-water is used, the returning ice-water is pre-cooled (e.g. with a plate heat exchanger), prior to final cooling in an accumulating ice-water tank with a coil evaporator. | | |
| Technique | Description | | | | | | | | | | | | | | | | | | |
| (a) Partial milk homogenisation | The cream is homogenised together with a small proportion of skimmed milk. The size of the homogeniser can be significantly reduced, leading to energy savings. | | | | | | | | | | | | | | | | | | |
| (b) Energy-efficient homogeniser | The homogeniser's working pressure is reduced through optimised design and thus the associated electrical energy needed to drive the system is also reduced. | | | | | | | | | | | | | | | | | | |
| (c) Use of continuous pasteurisers | Flow-through heat exchangers are used (e.g. tubular, plate and frame). The pasteurisation time is much shorter than that of batch systems. | | | | | | | | | | | | | | | | | | |
| (d) Regenerative heat exchange in pasteurisation | The incoming milk is preheated by the hot milk leaving the pasteurisation section. | | | | | | | | | | | | | | | | | | |
| (e) Ultra-high-temperature (UHT) processing of milk without intermediate pasteurisation | UHT milk is produced in one step from raw milk, thus avoiding the energy needed for pasteurisation. | | | | | | | | | | | | | | | | | | |
| (f) Multi-stage drying in powder production | A spray-drying process is used in combination with a downstream dryer, e.g. fluidised bed dryer. | | | | | | | | | | | | | | | | | | |
| (g) Precooling of ice-water | When ice-water is used, the returning ice-water is pre-cooled (e.g. with a plate heat exchanger), prior to final cooling in an accumulating ice-water tank with a coil evaporator. | | | | | | | | | | | | | | | | | | |

| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|-------------|---|-----|------------|--------------------------------------|--|--|--|-----------------------|-----|--------------|--|--|--|--|--|-----|----------------------------------|--|--|--|--|-----|---|--|-----|--------------------------|--|----|---|
| 22 | <p>In order to reduce the quantity of waste sent for disposal, BAT is to use one or a combination of the techniques given below.</p> <table border="1" data-bbox="282 360 1189 995"> <thead> <tr> <th data-bbox="282 360 539 405"></th> <th data-bbox="539 360 719 405">Technique</th> <th data-bbox="719 360 1189 405">Description</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="282 405 1189 443"><i>Techniques related to the use of centrifuges</i></td> </tr> <tr> <td data-bbox="282 443 338 512">(a)</td> <td data-bbox="338 443 539 512">Optimised operation of centrifuges</td> <td data-bbox="539 443 1189 512">Operation of centrifuges according to their specifications to minimise the rejection of product.</td> </tr> <tr> <td colspan="3" data-bbox="282 512 1189 550"><i>Techniques related to butter production</i></td> </tr> <tr> <td data-bbox="282 550 338 643">(b)</td> <td data-bbox="338 550 539 643">Rinsing of the cream heater with skimmed milk or water</td> <td data-bbox="539 550 1189 643">Rinsing of the cream heater with skimmed milk or water which is then recovered and reused, before the cleaning operations.</td> </tr> <tr> <td colspan="3" data-bbox="282 643 1189 681"><i>Techniques related to ice cream production</i></td> </tr> <tr> <td data-bbox="282 681 338 751">(c)</td> <td data-bbox="338 681 539 751">Continuous freezing of ice cream</td> <td data-bbox="539 681 1189 751">Continuous freezing of ice cream using optimised start-up procedures and control loops that reduce the frequency of stoppages.</td> </tr> <tr> <td colspan="3" data-bbox="282 751 1189 790"><i>Techniques related to cheese production</i></td> </tr> <tr> <td data-bbox="282 790 338 882">(d)</td> <td data-bbox="338 790 539 882">Minimisation of the generation of acid whey</td> <td data-bbox="539 790 1189 882">Whey from the manufacture of acid-type cheeses (e.g. cottage cheese, quark and mozzarella) is processed as quickly as possible to reduce the formation of lactic acid.</td> </tr> <tr> <td data-bbox="282 882 338 995">(e)</td> <td data-bbox="338 882 539 995">Recovery and use of whey</td> <td data-bbox="539 882 1189 995">Whey is recovered (if necessary using techniques such as evaporation or membrane filtration) and used, e.g. to produce whey powder, demineralised whey powder, whey protein concentrates or lactose. Whey and whey concentrates can also be used as animal feed or as a carbon source in a biogas plant.</td> </tr> </tbody> </table> | | Technique | Description | <i>Techniques related to the use of centrifuges</i> | | | (a) | Optimised operation of centrifuges | Operation of centrifuges according to their specifications to minimise the rejection of product. | <i>Techniques related to butter production</i> | | | (b) | Rinsing of the cream heater with skimmed milk or water | Rinsing of the cream heater with skimmed milk or water which is then recovered and reused, before the cleaning operations. | <i>Techniques related to ice cream production</i> | | | (c) | Continuous freezing of ice cream | Continuous freezing of ice cream using optimised start-up procedures and control loops that reduce the frequency of stoppages. | <i>Techniques related to cheese production</i> | | | (d) | Minimisation of the generation of acid whey | Whey from the manufacture of acid-type cheeses (e.g. cottage cheese, quark and mozzarella) is processed as quickly as possible to reduce the formation of lactic acid. | (e) | Recovery and use of whey | Whey is recovered (if necessary using techniques such as evaporation or membrane filtration) and used, e.g. to produce whey powder, demineralised whey powder, whey protein concentrates or lactose. Whey and whey concentrates can also be used as animal feed or as a carbon source in a biogas plant. | NA | <p>We are satisfied that BATc 22 is not applicable to this Installation. The Operator has confirmed that none of the techniques described by BATc 22 are used at this installation.</p> <p>The site does not currently undertake any of the processes relevant to the techniques listed under BAT 22 – however, the operator has reported that they use a few of their own techniques to help minimise the quantity of waste.</p> |
| | Technique | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Techniques related to the use of centrifuges</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (a) | Optimised operation of centrifuges | Operation of centrifuges according to their specifications to minimise the rejection of product. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Techniques related to butter production</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) | Rinsing of the cream heater with skimmed milk or water | Rinsing of the cream heater with skimmed milk or water which is then recovered and reused, before the cleaning operations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Techniques related to ice cream production</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (c) | Continuous freezing of ice cream | Continuous freezing of ice cream using optimised start-up procedures and control loops that reduce the frequency of stoppages. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Techniques related to cheese production</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (d) | Minimisation of the generation of acid whey | Whey from the manufacture of acid-type cheeses (e.g. cottage cheese, quark and mozzarella) is processed as quickly as possible to reduce the formation of lactic acid. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (e) | Recovery and use of whey | Whey is recovered (if necessary using techniques such as evaporation or membrane filtration) and used, e.g. to produce whey powder, demineralised whey powder, whey protein concentrates or lactose. Whey and whey concentrates can also be used as animal feed or as a carbon source in a biogas plant. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | <p>In order to reduce channelled dust emissions to air from drying, BAT is to use one or a combination of the techniques given below.</p> <table border="1" data-bbox="282 1107 1173 1398"> <thead> <tr> <th data-bbox="282 1107 495 1152"></th> <th data-bbox="495 1107 730 1152">Technique</th> <th data-bbox="730 1107 943 1152">Description</th> <th data-bbox="943 1107 1173 1152">Applicability</th> </tr> </thead> <tbody> <tr> <td data-bbox="282 1152 338 1244">(a)</td> <td data-bbox="338 1152 495 1244">Bag filter</td> <td data-bbox="495 1152 730 1398" rowspan="3">See Section 14.2 Page 34 of the Bref</td> <td data-bbox="943 1152 1173 1244">May not be applicable to the abatement of sticky dust.</td> </tr> <tr> <td data-bbox="282 1244 338 1302">(b)</td> <td data-bbox="338 1244 495 1302">Cyclone</td> <td data-bbox="943 1244 1173 1302">Generally applicable.</td> </tr> <tr> <td data-bbox="282 1302 338 1398">(c)</td> <td data-bbox="338 1302 495 1398">Wet scrubber</td> <td data-bbox="943 1302 1173 1398"></td> </tr> </tbody> </table> <p>The associated monitoring is given in BAT 5.</p> | | Technique | Description | Applicability | (a) | Bag filter | See Section 14.2 Page 34 of the Bref | May not be applicable to the abatement of sticky dust. | (b) | Cyclone | Generally applicable. | (c) | Wet scrubber | | NA | <p>We are satisfied that BATc 23 is not applicable to this Installation, as no drying is undertaken at the site, as such there are no channelled emissions to air associated with this installation.</p> | | | | | | | | | | | | | | | | |
| | Technique | Description | Applicability | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (a) | Bag filter | See Section 14.2 Page 34 of the Bref | May not be applicable to the abatement of sticky dust. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (b) | Cyclone | | Generally applicable. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (c) | Wet scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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 | | | | | | | | | | | | |
|--|--|---|---|---|-------------|--|----------------------|--------|--------------------------|--------|-----------|----------------|---|----|--|
| 23 | <p>BAT-associated emission level (BAT-AEL) for channelled dust emissions to air from drying</p> <table border="1" data-bbox="277 335 1173 558"> <thead> <tr> <th>Parameter</th> <th>Description</th> <th>BAT-AEL (average over the sampling period)</th> </tr> </thead> <tbody> <tr> <td>Dust</td> <td>Mg/Nm³</td> <td><2-10 ⁽¹⁾</td> </tr> </tbody> </table> <p>(1) The upper end of the range is 20 mg/Nm³ for drying of demineralised whey powder, casein and lactose.</p> | Parameter | Description | BAT-AEL (average over the sampling period) | Dust | Mg/Nm ³ | <2-10 ⁽¹⁾ | | | | | | | | |
| Parameter | Description | BAT-AEL (average over the sampling period) | | | | | | | | | | | | | |
| Dust | Mg/Nm ³ | <2-10 ⁽¹⁾ | | | | | | | | | | | | | |
| Dairy Sector Environmental Performance Levels | | | | | | | | | | | | | | | |
| EPL | <p>Environmental Performance Level – Energy consumption for the dairy sector</p> <table border="1" data-bbox="277 737 1232 1066"> <thead> <tr> <th>Main product (at least 80 % of the production)</th> <th>Unit</th> <th>Specific energy consumption (yearly average)</th> </tr> </thead> <tbody> <tr> <td>Market milk</td> <td rowspan="4">MWh/tonne of raw materials</td> <td>0.1-0.6</td> </tr> <tr> <td>Cheese</td> <td>0.10-0.22 ⁽¹⁾</td> </tr> <tr> <td>Powder</td> <td>0.2-0.5</td> </tr> <tr> <td>Fermented milk</td> <td>0.2-1.6</td> </tr> </tbody> </table> <p>(1) The specific energy consumption level may not apply when raw materials other than milk are used.</p> | Main product (at least 80 % of the production) | Unit | Specific energy consumption (yearly average) | Market milk | MWh/tonne of raw materials | 0.1-0.6 | Cheese | 0.10-0.22 ⁽¹⁾ | Powder | 0.2-0.5 | Fermented milk | 0.2-1.6 | CC | <p>The operator has provided information to support compliance with the energy EPL. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with the energy consumption for market milk.</p> <p>The fermented milk figure of 0.2 – 1.6 MWh/tonne is appropriate for this installation.</p> <p>The current energy consumption is 35,000 MWh against production output of 120,000 tonnes giving 0.3 MWh/tonne which is well within the target, reflecting good energy management in place at this installation.</p> |
| Main product (at least 80 % of the production) | Unit | Specific energy consumption (yearly average) | | | | | | | | | | | | | |
| Market milk | MWh/tonne of raw materials | 0.1-0.6 | | | | | | | | | | | | | |
| Cheese | | 0.10-0.22 ⁽¹⁾ | | | | | | | | | | | | | |
| Powder | | 0.2-0.5 | | | | | | | | | | | | | |
| Fermented milk | | 0.2-1.6 | | | | | | | | | | | | | |
| EPL | <p>Environmental Performance Level – Specific waste water discharge for the dairy sector</p> <table border="1" data-bbox="277 1161 1232 1369"> <thead> <tr> <th>Main product (at least 80 % of the production)</th> <th>Unit</th> <th>Specific waste water discharge (yearly average)</th> </tr> </thead> <tbody> <tr> <td>Market milk</td> <td rowspan="3">m³/tonne of raw materials</td> <td>0.3 - 3.0</td> </tr> <tr> <td>Cheese</td> <td>0.75 - 2.5</td> </tr> <tr> <td>Powder</td> <td>1.2 – 2.7</td> </tr> </tbody> </table> | Main product (at least 80 % of the production) | Unit | Specific waste water discharge (yearly average) | Market milk | m ³ /tonne of raw materials | 0.3 - 3.0 | Cheese | 0.75 - 2.5 | Powder | 1.2 – 2.7 | CC | <p>The operator has provided information to support compliance with the energy EPL. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with the energy consumption for market milk.</p> <p>The current water consumption is 260,000 m³ against production of 120,000 tonnes giving 2.17 m³/tonne. which is well within the target, reflecting good energy management in place at this installation.</p> | | |
| Main product (at least 80 % of the production) | Unit | Specific waste water discharge (yearly average) | | | | | | | | | | | | | |
| Market milk | m ³ /tonne of raw materials | 0.3 - 3.0 | | | | | | | | | | | | | |
| Cheese | | 0.75 - 2.5 | | | | | | | | | | | | | |
| Powder | | 1.2 – 2.7 | | | | | | | | | | | | | |

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
 - Activity Reference (AR) renumbering
 - Updated listed activities
 - Addition of production capacity
 - 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 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 existing volume of raw milk permitted at the site has not increased since the previous variation and therefore the assessment for emissions to water/sewer remain valid for 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

Existing Medium Combustion Plant (1MW-50MW)

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

Boilers

| | |
|---|--|
| 1. Rated thermal input (MW) of the medium combustion plant. | Combined capacity 11.6MWth |
| 2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant). | Boiler 1 Dairy: 3.9MWth Boiler 2 Dairy: 3.9MWth Boiler 3 Fruit: 1.9MWth Boiler 4 Fruit: 1.9MWth |
| 3. Type and share of fuels used according to the fuel categories laid down in Annex II. | Kerosene |
| 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. | Boiler 1: Jan 04 Boiler 2: Jan 04 Boiler 3: Jan 03 Boiler 4: Jan 01 |

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.

Emissions to Water and implementing the requirements of the Water 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 summary report which referenced the site condition report and baseline report. We have reviewed the information and we consider that it adequately describes the current condition of the soil and groundwater. Consequently, we are satisfied that the baseline conditions have not changed.

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.

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 via 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 applicable.

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
- 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 | The Operator shall submit a report on the baseline conditions of soil and groundwater at the Installation. The report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the IED. The report shall contain information, supplementary to that already provided in application Site Condition Report, needed to meet the information requirements of Article 22(2) of the IED. |
| IC2 | The Operator shall submit the written protocol referenced in condition 3.1.3 for the monitoring of soil and groundwater for approval by the Environment Agency. The protocol shall demonstrate how the Operator will meet the requirements of Articles 14(1)(b), 14(1)(c), 14(1)(e) and 16(2) of the IED. The procedure shall be implemented in accordance with the written approval from the Environment Agency. |
| IC3 | The operator shall review the methods for containment of surface water at discharge point W1 to prevent discharge to controlled waters in the event of an emergency. The review should consider but not be limited to secured sluice gate control and interceptor design. A report detailing the findings of this review and the proposed methods for containment shall be submitted to the Environment Agency for approval. |
| IC4 | The operator shall ensure that a review of the design, method and construction and integrity of all bunds carried out at: <ol style="list-style-type: none"> 1. loading points and connecting pipework of the bulk oil storage tanks (within 3 months of permit issue) 2. chemical storage area (within 6 months of permit issue) 3. raw milk silos for fresh milk production (within 12 months of permit issue) This shall compare existing bunds against the standards set out in the Emissions and Monitoring, Releases from liquid in containers section of the Sector Guidance Note How to Comply with your Environmental Permit. The review shall include: <ul style="list-style-type: none"> • the physical condition of the bunds • their suitability for containment when subject to the dynamic and static loads caused by catastrophic container failure • any work required to ensure compliance with the standards set out in the how to comply guidance document • suggested preventative maintenance & inspection regime |

| | |
|-----|--|
| | The written report of the review shall be submitted to the Environment Agency detailing the review findings and recommendations. |
| IC5 | <p>The operator shall review the secondary containment capacity for the following bulk storage vessels:</p> <ul style="list-style-type: none"> • CK-TNK-510403 • CK-TNK-510404 • CK-TNK-520503 • CK-TNK-520502 • CK-TNK-510501 • CK-TNK-510701 <p>This review shall be submitted as a written report to the Environment Agency for approval. The review shall assess the secondary containment capacity against Environment Agency guidance and Ciria C736.</p> <p>The review shall detail any required additional improvements, including set timescales for the implementation of any required improvements.</p> |

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 |
| IC6 | <p>The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving the 'Narrative' BAT 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:</p> <ol style="list-style-type: none"> 1) Methodology for achieving BAT 2) Associated targets /timelines for reaching compliance by 4 December 2023 3) Any alterations to the initial plan (in progress reports). <p>The report shall address the BAT Conclusions for Food, Drink and Milk Industries with respect to BATc 8.</p> <p>Refer to BAT Conclusions for a full description of the BAT requirement.</p> | 04/12/2023 |