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/BP4062IB

The Operator is: Froneri Ice Cream UK Limited
The Installation is: Leeming Bar Ice Cream Factory

This Variation Notice number is: EPR/BP4062IB/V012

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 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 21/07/2022.

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

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

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 have no reason to consider that the Operator will not be able to comply with the techniques and standards described in the BAT Conclusions.

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 24/05/2024, we required more information on BAT 6, BAT 9, BAT 12 and BAT 14 in addition to confirmation of raw materials received on site. 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.	СС	The operator has provided information to support compliance with BATc 1. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 1. The operator has an EMS which covers all the topics set out in BATc 1, this is not accredited to ISO 14001 however the operator submitted a summary of the documents contents and upon review it is evident that the EMS is written to ISO 14001 standards.
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 declared: • Waste water is treated through an onsite effluent treatment plant (ETP). The process consists of Pre Filtration, Ultra Filtration then followed by Reverse Osmosis (RO). The Ultrafiltrated permeate is discharged to Yorkshire Water Treatment Plant under consent parameters, The RO permeate is re-used on the Cooling Towers. Performance of the ETP is monitored through KPI which include COD & flow rates. • Water, Gas and Electricity are monitored via the reading of meters. This is reported as a Permit requirement on an annual basis. It

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
			internally monitored on a weekly basis. The operator has an EMS which covers all the
			topics set out in BATc 2. The EMS is not accredited to ISO 14001. However, upon review we agree that the EMS is written to ISO 14001 standards.
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.
			The operator monitored all waste water for pH, and flow at the in-let of pre-treatment and at the point where the emission leaves the installation. Chemical oxygen demand (COD) and Ammonia are also monitored in the Effluent Treatment Plant (ETP) to ensure plant performance.
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	NA	We are satisfied that BATc 4 is not applicable to this Installation.
	not available, BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality.		This BATc is concerned with discharges of process effluent to controlled waters and this installation does not have such discharges. All treated waste water is discharged directly to sewer under consent of Yorkshire Water. As such, BATc 4 is not applicable.
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 to BATE table in BATE and in accordance with EN standards.	NA	We are satisfied that BATc 5 is not applicable to this Installation.
	[refer to BAT5 table in BATc] and in accordance with EN standards.		This BATc is concerned with channelled dust emissions to air from processes such as grinding, cooling, or drying. This installation

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
			does not have any of this processes. Therefore, BATc 5 is not applicable.
6	Energy Efficiency In order to increase energy efficiency, BAT is to use an energy efficiency plan (BAT 6a) and an appropriate combination of the common techniques listed in technique 6b within the table in the BATc.	cc	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.
			The operator has an energy efficiency plan in place to ensure targets are met and energy efficient replacements chosen. Furthermore, the operator detailed the further techniques they use on site, including:
			 Energy efficient motors are installed across the site All boiler burner assemblies are controlled to a steam set point Heat exchanger/heat recovery is utilized – the jacket water of each CHP is connected to a heat exchanger which in turn heats water supplied to the effluent plant pasteuriser. Site lighting has been replaced with energy efficient LED lighting and a high proportion of this is controlled by motion sensors.
7	Water and wastewater minimisation In order to reduce water consumption and the volume of waste water discharged, BAT is to use BAT 7a and one or a combination of the techniques b to k given below. (a) water recycling and/or reuse (b) Optimisation of water flow	cc	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.
	(c) Optimisation of water now (d) Segregation of water streams Techniques related to cleaning operations:		The operator utilizes water recycling and reuse on site. The reverse osmosis (RO) plant recycles wate water from cleaning processes across the site; this is then used for cleaning in

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
	(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		place (CIP) and for topping up the condensing and cooling towers on site. Furthermore, the operator declared that they use other techniques as described in BAT7: (b) Optimisation of water flow (c) Optimisation of water nozzles and hoses (d) Segregation of water streams (f) Pigging system for pipes (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
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	CC	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. The operator declared that they use the following techniques on site to ensure the reduction and prevention of harmful substances: (a) Proper selection of cleaning chemicals and/or disinfectants – all chemicals are advised on and provided by a specialist chemical supplier (b) Reuse of cleaning chemicals in cleaning-in-place (CIP) – Caustic that has been used on cleaning in place is recovered and reused where appropriate. (c) Dry cleaning – cleaning areas are cleared of solid gross debris by dry cleaning.

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) Optimised design and construction of equipment and process areas – all production areas are designed to be efficient and use space effectively, allowing appropriate cleaning.
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 confirmed that the majority of refrigerant used on site is Ammonia. Furthermore, any remaining refrigerants with a high global warming potential (GWP) are planned to be replaced either lower GWP models or Ammonia.
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 declared that they use the following techniques, as described in BAT10: (a) Anaerobic digestion – food waste is sent off-site to undergo anaerobic digestion (b) Use of residues – any residues that can be used again in the process will be, any that are deemed unusable are sent for land spreading off-site. (c) Separation of residues – all residues are separated at source. (d) Recovery and reuse of residues from the pasteuriser – the pasteurisers on site are purged and mix is recovered, if usable.

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
			(f) Use of waste water for land spreading – most effluent is discharged to sewer. However, if the site produces more than their discharge consent, it is collected and tankered off site for land spreading.
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. The site has sufficient containment on all storage tanks on-site, in addition to the effluent treatment plant (ETP) being adequately bunded. There is sufficient buffer tank located before the ETP allowing effluent to be contained before passing through the process which allows effluent flow to be shut off should any out of spec effluent enter the system. Furthermore the site operates pen-stock valves and has spill kits in major locations across the site.
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	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 on-site effluent treatment plant (ETP) processes all effluent. Firstly the effluent is collected and pumped to a storage tank where it undergoes biological treatment to reduce the fat and COD present. This is then filtered via a rotary filtration unit, the filtered effluent is then heated and pH adjusted before being filtered again via an ultrafiltration plant. The permeate from this step is passed through a reverse osmosis (RO) plant to be

BATC No.	Summary of BAT Conclusion requirer Industries	nent 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
	(g) Phosphorus recovery as struvite			reused on site for cleaning and cooling
	(h) Precipitation			systems.
	(i) Enhanced biological phosphorus remo	oval		The remaining effluent is then discharged directly to sewer under consent of Yorkshire
	Final solids removal			Water.
	(j) Coagulation and flocculation			
	(k) Sedimentation			
	(I) Filtration (eg sand filtration, microfiltra	tion, ultrafiltration)		
	(m) Flotation			
12	Emissions to water – treatment		NA	We are satisfied that BATc 12-AELs are not
	BAT-associated emission levels (BAT-AELs) for direct emissions to a			applicable to this Installation.
	receiving water body			
				This BATc in concerned with direct discharges to water. All treated waste water is discharged
	Parameter	BAT-AEL (¹) (²) (daily average)		directly to sewer under consent of Yorkshire
	Chemical oxygen demand (COD) (3) (4)	25-100 mg/l (5)		Water. As such, BATc 12-AELs is not
	Total suspended solids (TSS)	4-50 mg/l (6)		applicable to this installation.
	Total nitrogen (TN)	2-20 mg/l (⁷) (⁸)		
	Total phosphorus (TP)	0,2-2 mg/l (⁹)		
	Note: 125mg/I COD for dairy sites only as a yearly average or as an average on Note: 4mg/I TP for dairy sites only if the yearly average or as an average over	over the production period. ne abatement efficiency is ≥ 95 % as a		
13	Noise management plan		NA	The operator has provided information to
	In order to prevent or, where that is not practicable, to reduce noise emissions, BAT is to set up, implement and regularly review a noise management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements:			support compliance with BATc 13. We have assessed the information provided and we are satisfied that the operator has demonstrated compliance with BATc 13.
	- a protocol containing actions and timeli	nes;		This BATc is concerned with sites that have
	- a protocol for conducting noise emissic			received previous noise nuisance complaints. This installation has not received any of these

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 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. 		in recent times and therefore, BATc 13 is not applicable.
14	Noise management In order to prevent or, where that is not practicable, to reduce noise emissions, BAT is to use one or a combination of the techniques given below. (a) Appropriate location of equipment and buildings (b) Operational measures (c) Low-noise equipment (d) Noise control equipment (e) Noise abatement	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. The site has adopted various noise mitigation techniques to prevent noise nuisance. This includes: - Reducing deliveries to specific times - All refrigerated trailers are run off of electricity rather than diesel - A 'no parking zone' has been introduced to reduce traffic close to sensitive receptors - Ventilation fans have had low noise motors installed - Energy efficient and noise reducing fans have been fitted to production areas - Reduced movement of forklifts across the site and restricted times.
15	Odour Management In order to prevent or, where that is not practicable, to reduce odour emissions, BAT is to set up, implement and regularly review an odour management plan, as part of the environmental management system (see BAT 1), that includes all of the following elements: - a protocol containing actions and timelines; - a protocol for conducting odour monitoring. - a protocol for response to identified odour incidents eg complaints; - an odour prevention and reduction programme designed to identify the source(s); to measure/estimate odour exposure: to characterise the contributions of the sources; and to implement prevention and/or reduction measures.	NA	We are satisfied that BATc 15 is not applicable to this Installation. The site has not received any odour complaints and as such does not require an odour management plan and BAT15 is not applicable.

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
- Operator name has been changed from R&R Ice Cream UK Limited to Froneri Ice Cream UK Limited
- Introductory note
- Site plan
- Table S1.1 overhaul
 - 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 the previous variation (V011).

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

Emissions to Air

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

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

Implementing the requirements of the Medium Combustion Plant Directive

Existing small combustion plant (<1MW)

For the existing combustion plant with a rated thermal input less than 1 MW we will not be including any emission limit values or monitoring requirements within the permit, unless any site specific conditions require us to do this.

	CHP 1	CHP 2
1. Rated thermal input (MW) of the medium	0.8 MWth	0.8 Mwth
combustion plant.		
2. Type of the medium combustion plant	Boiler	Boiler
(diesel engine, gas turbine, dual fuel engine,		
other engine or other medium combustion		
plant).		
3. Type and share of fuels used according to	Natural gas – 100%	Natural gas – 100%
the fuel categories laid down in Annex II.		
4. Date of the start of the operation of the	Feb 2014	Feb 2014
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.		

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

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

Boilers

	Boiler 1 (Britney)	Boiler 2 (Dickie Bird)	Boiler 3 (Wee Chieftain)
1. Rated thermal input (MW) of the medium combustion plant.	2.8 MWth	2.9 MWth	2.7 MWth
2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Boiler	Boiler	Boiler
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	Natural gas – 100%	Natural gas – 100%	Natural gas – 100%
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.	2002	Dec 2005	Sep 2005

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.

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

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

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

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

Soil & groundwater risk assessment (baseline report)

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

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

The Operator submitted a site condition report [Application Variation - Application forms & Supporting documents 8310078] during the variation application (V011) received on 09/04/2014. The site condition report included a report on the baseline conditions as required by Article 22. We reviewed that report and considered that it adequately described the condition of the soil and groundwater at that time.

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 confirmed there has been no change in the hazardous substances used, their capability of causing pollution and/or the pollution prevention measures at the installation since the risk assessment was submitted on 09/04/2014. Consequently, we are satisfied there has been no change to the assessment of risk for hazardous substances.

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.

The installation relies on a resilient water supply and is a business critical factor. However, all water is sourced from reliable mains and a Climate Change Adaption Plan is not applicable to this installation. A risk assessment has been completed.

Containment

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

The Operator provided details of all tanks;

- Tank reference/name
- Contents
- Capacity (litres)
- Location
- Construction material(s) of each tank
- The bunding specification including
 - Whether the tank is bunded
 - If the bund is shared with other tanks
 - o The capacity of the bund
 - The bund capacity as % of tank capacity
 - o 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

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 review the site protection and monitoring programme to incorporate the latest expansion of the site boundary. Upon completion of the review the document shall be submitted to the Agency.		
IC2	The operator shall undertake a review of the energy usage and efficiency at the installation flowing the implementation of amendments implemented by variation (V008). A report detailing the outcome of the review and a timetable for the implementation of any identified improvements where relevant shall be submitted to the environment Agency in writing.		
IC3	The operator shall undertake a review of their operating procedures and accident management plan associated with storage, transfer and use of ammonia on site. A report detailing the outcome of the review and a timetable for the implementation of any identified improvements where relevant shall be submitted to the environment agency in writing for approval.		
IC4	The operator shall provide a report to the environment agency detailing the findings of the noise survey conducted in accordance with BS4141:1997 (or replacement standard) as described in variation application (V011). If the findings indicate that the plant might give rise to disturbance then the report will include further investigation and studies undertaken to identify the specific source(s) of the problematic noise and measures proposed to mitigate the potential impact to acceptable levels in accordance with BS4142:1997 (or replacement standard).		

No improvement conditions have added to the permit as a result of the variation.