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Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

The First Milk Cheese Company Limited

**Haverfordwest Creamery
Pembroke Road
Merlins Bridge
Haverfordwest
Pembrokeshire
SA61 1JN**

Variation number

EPR/XP3830UR/V005

Permit number

EPR/XP3830UR

Haverfordwest Creamery

Permit number EPR/XP3830UR

Introductory note

This introductory note does not form a part of the notice.

The following notice gives notice of the variation and consolidation of an environmental permit.

This variation adds one 2.7 MW thermal input natural gas fuelled Combined Heat and Power (CHP) engine within the existing installation boundary. The CHP engine is classed as a new complex bespoke Medium Combustion Plant (MCP) and an excluded Specified Generator (SG). This CHP engine had previously been permitted under a standard rules permit (SR2018 No7) which was granted as part of EPR/XP3830UR/V004 variation. Following revision of the SR2018 No7 standard rules permit on 01 April 2020 the CHP engine can no longer meet the conditions set out in the SR2018 No7 standard rules permit and therefore must be permitted as a bespoke MCP and conditions are added to the installation permit as part of this variation.

As part of the variation and consolidation the following has been completed:

- Updated the permit into modern format with modern conditions
- Correction of minor errors
- Updated the status of improvement conditions and pre-operational conditions
- Updated the Introductory Note
- Updated the operating techniques
- Updated the reporting requirements
- Updated the permit schedules & tables
- Addition of conditions relevant to the MCP
- Removal of two parameters (sulphur dioxide and particulate matter) from the air emissions monitoring tables for the existing boilers as they are now running on natural gas as opposed to fuel oil

The schedules specify the changes made to the permit.

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

Status log of the permit		
Description	Date	Comments
Application received BV7788ID	08/03/2005	Application for permit
Additional information received	25/08/2005 12/09/2005	
Permit determined BV7788ID	12/10/2005	
Permit transfer application received	12/02/2007	
Additional information received	24/05/2007	
Permit transferred	02/07/2007	
Application EPR/XP3830UR/V002 (PAS Ref BP332KU)	Duly made 31/12/2009	
Additional information received	27/05/2010	
Additional information received	17/06/2010	
Variation determined EPR/XP3830UR/V002	29/07/2010	
Application EPR/XP3830UR/V003 (variation and consolidation)	Duly made 20/03/2013	Application to add an effluent treatment plant and to update the permit to modern conditions.
Variation determined EPR/XP3830UR/V003	29/07/2019	Varied and consolidated permit issued in modern condition format.
Application EPR/XP3830UR/V004	Duly made 18/12/2019	Application too add a Standard Rules Permit: SR2018 No7 Medium Combustion Plant within current installation boundary.
Additional information received	13/01/2020	Information regarding details of the Medium Combustion Plant.
Variation determined EPR/XP3830UR/V004	04/02/2020	Varied permit issued to The First Milk Cheese Company Limited.
Application EPR/XP3830UR/V005 (variation and consolidation)	Duly made 26/05/2020	Application to convert SR2018 No7 Medium Combustion Plant to bespoke Medium Combustion Plant following the revision of the SR2018 No7 standard rules permit.
Additional information received	09/06/2020	Information regarding detailed air dispersion modelling.
Variation determined EPR/XP3830UR/V005	21/07/2020	Varied and consolidated permit issued to The First Milk Cheese Company Limited.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/XP3830UR

issued to

The First Milk Cheese Company Limited (“the operator”)

of/ whose registered office is

The Lake District Creamery

Station Road

Aspatria

Wigton

Cumbria

CA7 2AR

company registration number **05893846**

to operate a regulated facility at

Haverfordwest Creamery

Pembroke Road

Merlins Bridge

Haverfordwest

Pembrokeshire

SA61 1JN

to the extent set out in the schedules.

The notice shall take effect from 21st July 2020

Signed

Date

David Poole	21/07/2020
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Authorised on behalf of Natural Resources Wales

Schedule 1

The following conditions were amended as a result of the application made by the operator:

Condition 3.5.1 has been amended, now reading as follows:

3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1, S3.2 and S3.3;

Table S1.1 has been amended, now reading as follows:

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	S6.8 A(1)(e) – Treating and processing milk, the quantity of milk received being more than 200 tonnes per day (average value of an annual basis).	Processing of milk to produce cheese and butter products.	From receipt and storage of raw materials to despatch of finished product from the installation.
A2	S5.4 A(1)(a)(i) - Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving one or more of the following activities – (i) biological treatment.	Treatment of process effluent.	From receipt of crude and condensate effluent from the cheese plant to discharge to Western Cleddau.
Directly Associated Activity			
A3	Directly associated activity	Steam and electrical power supply – combustion of natural gas in three boilers with an aggregated thermal input of 24 MWth.	From receipt of natural gas fuel to release of combustion products to air.
A4	Directly associated activity	Storage and handling of wastes	From generation of wastes to despatch of wastes.
A5	Directly associated activity	Refrigeration of raw materials and finished products.	From receipt and storage of raw materials to despatch of finished product from the installation.
A6	Directly associated activity	Odour control unit - Operation of an air extraction system and biological filter to control odour from the sludge treatment process.	From extraction of air from the sludge building and sludge tank, through the biological odour control filter.
Medium Combustion Plant			

Activity reference	Activity listed in the EP Regulations	Description of MCP and/or Specified Generator	Limits of specified activity
A7 NGR: SM 94846 14458	Schedule 25A – Medium Combustion Plant as detailed in Schedule 8 and Specified Generator that is excluded	1No. 2.7 MWth input Combined Heat and Power Engine fuelled on natural gas	From receipt of fuel to release of combustion products to air. Operating hours not restricted.

Table S1.2 has been amended, now reading as follows:

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 given in pages 9 to 40 of the application.	08/03/2005
Variation Application	Variation Application sections 1.1 – 1.9, 2.0 and 3.0. Non-technical summary Site Plan	31/12/2009
Response to request for further information	Response to Schedule 5 – Items 2 - 6	27/05/2010
Variation Application EPR/XP3830UR/V003	Section M – Non technical summary of the intended plant design Section O – Nitrate Management Plans for First Milk farmers Section 1 – Emergency preparedness and critical incident management plans Section 2 – Raw materials and chemical inventory	20/03/2013
Variation application EPR/XP3830UR/V005	Responses to questions 2b, 3d, 4, 5a and 6 of Form C2 including all supporting documentation. Responses to questions 1a, 1b, 2, 3a, 3b, 4a, 4b, 6a, 6b, 6c, 7, Appendix 8 of Form C3 including all supporting documentation.	21/05/2020
Response to Schedule 5 Notice dated 03/06/2020	Response to Schedule 5 Notice – document reference: CE-HW-1730-RP01-Final, Rev A	09/06/2020

Table S1.3 has been amended, now reading as follows:

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	On agreement of pre-operational condition 2 (POC2) the Operator will provide a progress report based on the agreed mitigation report.	Complete
IC2	The Operator shall submit to Natural Resources Wales, for approval, a revised odour management plan that incorporates and identifies potential sources of odour from the new effluent treatment plant.	Complete
IC3	The Operator shall submit to Natural Resources Wales, for approval, a revised noise management plan that incorporates and identifies potential sources of noise from the new effluent treatment plant.	Ongoing

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC4	The Operator shall submit to Natural Resources Wales, for approval, a revised emissions management plan that incorporates and identifies potential sources of fugitive emissions from the new effluent treatment plant.	Withdrawn
IC5	The Operator shall submit to Natural Resources Wales details of the conversion to natural gas for the emission points A1, A2 and A3 and the associated timeframe for the conversion.	Complete

Table S1.4 has been amended, now reading as follows:

Table S1.4 Pre-operational measures for future development

Reference	Operation	Pre-operational measures	Status
POC 1	Effluent treatment plant	The Operator shall provide to Natural Resources Wales details of the soil investigation undertaken as part of the borehole survey for the effluent treatment plant and the associated pipeline. This information will form part of the site condition report submitted as part of the variation application EPR/XP3830UR/V003.	Complete
POC 2	Effluent treatment plant	The Operator shall submit a report, for agreement with Natural Resources Wales, detailing the mitigation measures to be adopted by the farms linked to the proposed scheme. The report will consist of, but not be limited to, the following requirements: <ol style="list-style-type: none"> 1) Scheme scope and methodology. 2) Organogram detailing roles and responsibilities. 3) Details of the participating farms. 4) Details of the measures to be employed at the farms. 5) Methodology of how a baseline will be set to enable comparison. 6) Timeframe for implementation. 7) How reductions will be measured / monitored at each farm. 8) Frequency of review to confirm the status /summary of the measures implemented on each farm (to demonstrate continued compliance) 9) List of guidance to be utilised to calculate or measure the off-set. 10) Contingency measures. For example if a farm leaves the scheme. 11) Collation and reporting of information. The scheme must ensure that pollution reductions at farms within the scheme will equal, or be greater than, the amount of nutrients discharged by the effluent plant to the Cleddau Catchment.	Ongoing
POC 3	Effluent treatment plant	The Operator will submit plans, for agreement with Natural Resources Wales, detailing the associated timelines for the commissioning of the new effluent treatment plant (activity reference A2).	Complete

Schedule 2, Table S2.1 has been amended, now reading as follows:

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
Raw milk	Maximum quantity 1,000,000 litres

Schedule 3, Table S3.1 has been amended, now reading as follows:

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 on-site plan FM-C-06 Site Plan 19/05/2020	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Boiler no.1 (600 boiler)	No limit set	Periodic	Annually	MCERTS BS EN 14792
A2 on site plan FM-C-06 Site Plan 19/05/2020	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Boiler no.2 (800 boiler)	No limit set	Periodic	Annually	MCERTS BS EN 14792
A3 on site plan FM-C-06 Site Plan 19/05/2020	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Boiler no.3 (Danks boiler)	No limit set	Periodic	Annually	MCERTS BS EN 14792
A4 on site plan FM-C-06 Site Plan 19/05/2020	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	2.7 MWth input CHP engine	95 mg/m ³ ^{Note 1}	Periodic	Annually ^{Note 2}	MCERTS BS EN 14792
	Carbon monoxide		No limit set ^{Note 1}	Periodic	Annually ^{Note 2}	MCERTS BS EN 15058

Note 1: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 6 % for solid fuels, 15 % for engines and gas turbines and 3 % all other MCPs

Note 2: As per condition 3.5.5, the first monitoring measurements will be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation whichever is later

Schedule 3, Table S3.2 has been amended, now reading as follows:

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan SP04 and SP05 14/01/05. NGR 94651454	No parameter set	Uncontaminated site drainage water from site to Merlins Brook	No limit set	-	-	-
W2 on site plan in schedule 7. Location 196342, 214759.	Maximum daily discharge volume	Discharge from effluent treatment plant activity reference A2	2500 m ³ /day	Total daily volume	Continuous	Flow meter
	Maximum rate of discharge		120 m ³ /hr	Instantaneous	Continuous	Flow meter
	Temperature		35 °C	Absolute maximum	Continuous	Standard thermocouple
	Biochemical oxygen demand		40 mg/L	Absolute maximum	Weekly	BS EN 1899-1
			20 mg/L	95 th percentile ^{Note 1}		
	Total suspended solids		60 mg/L	Absolute maximum	Weekly	BS EN 872
			30 mg/L	95 th percentile ^{Note 1}		
	Ammonia		10 mg/L	Absolute maximum	Weekly	BS EN ISO 11732
			3.5 mg/L	95 th percentile ^{Note 1}		
	Total phosphates		5 mg/L	Absolute maximum	Weekly	BS EN ISO 15681-1
3 mg/L		95 th percentile ^{Note 1}				
Iron	10 mg/L	Absolute maximum	Weekly	BS EN ISO 11885		
	5 mg/L	95 th percentile ^{Note 1}				
Aluminium	2 mg/L	Absolute maximum	Weekly	BS EN ISO 11885		
	1 mg/L	95 th percentile ^{Note 1}				
pH	6 - 9	Absolute maximum	Continuous	BS ISO 10523		
WL1 on site plan SP05 14/01/05. East side of site	No parameter set	Discharge of two uncontaminated land drains to one soakaway	No limit set	-	-	-

Note 1: For 95% of all measured values according to look up table

Schedule 4, Table S4.1 has been amended, now reading as follows:

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1, A2, A3, A4 ^{Note 1}	Every 12 months	1 January
Emissions to water Parameters as required by condition 3.5.1	W2	Every 6 months	1 January, 1 July

Note 1: As required by condition 3.5.5, the first monitoring measurements of A4 will be carried out within four months of the issue date of the permit variation or the date when the MCP is first put into operation whichever is later

Schedule 4, Table S4.3 has been amended, now reading as follows:

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Energy usage	Annually	MWh
Potable water usage	Annually	tonnes
Non potable water usage	Annually	tonnes
Waste disposal and/or recovery	Annually	tonnes
Mass of ammonia released to water	Annually	tonnes
Mass of refrigerants released	Annually	tonnes
Annual report with the amount of nitrates, suspended solids and phosphates reduced from the farm nutrient efficiency (offset) scheme.	Annually	kg

Schedule 4, Table S4.4 has been amended, now reading as follows:

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	21/07/20
Water	Form water 1 or other form as agreed in writing by Natural Resources Wales	21/07/20
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	21/07/20
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	21/07/20
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	21/07/20

The following conditions were added as a result of the application made by the operator:

- 2.2.2 For the following activity, reference A7 in schedule 1, table S1.1 no MCP shall be operated beyond the site of the grid reference specified for it in schedule 1, table S1.1 of the permit.
- 2.3.5 For the following activity reference A7 in schedule 1, table S1.1 the activity shall be operated using the techniques and, in the manner, described in schedule 1, table S1.2A.
- 3.2.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 3.3.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 3.4.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 3.5.5 For the following activity, reference A4 in schedule 3, table S3.1 the first monitoring measurements will be carried out within four months of the issue date of the permit variation or the date when the MCP is first put into operation whichever is later.
- 3.5.6 For the following activity, reference A4 in schedule 3, table S3.1 monitoring shall not take place during periods of start up or shut down.
- 4.1.2 The operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP and/or generator.

Schedule 1, Table S1.2A has been added:

Table S1.2A Operating techniques for Medium Combustion Plant as detailed in Schedule 8
Description
Each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this
The operator must keep periods of start-up and shut-down of each MCP as short as possible
There must be no persistent emission of 'dark smoke' as defined in Section 3(1) of The Clean Air Act 1993

Schedule 8, Annex 1 of MCPD has been added:

1. Rated thermal input (MW) of the medium combustion plant.	2.7 MW thermal input
2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Combined Heat and Power Engine
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	100 % Natural gas
4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.	01/07/2020
5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code).	NACE 10.51
6. Expected number of annual operating hours of the medium combustion plant and average load in use.	8760 hours
7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.	N/A
8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.	Registered office address: The First Milk Cheese Company Limited, The Lake District Creamery, Station Road, Aspatria, CA7 2AR MCP Location: Haverfordwest Creamery, Pembroke Road, Merlins Bridge, Haverfordwest, SA61 1JN

The following conditions were deleted as a result of the application made by the operator:

- 2.3.6 The combustion plant on site may be operated on either HFO natural gas or PFO (manufactured to BS 2869; 2006 standard) subject to the revised monitoring requirements as detailed in schedule 3 table S3.1.
- 2.3.7 The PFO shall be independently tested, at a UKAS accredited laboratory, annually by the Operator to ensure it conforms to BS2869; 2006.

The following conditions were deleted as a result of the application made by the operator:

Under regulation 27(2) of the Regulations, Standard Rules SR2018 No7 are conditions of this permit.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.