

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Felinfach Food Flavours Factory

Sensient Flavours Limited
Felinfach
Lampeter
Ceredigion
SA48 8AG

Variation application number
EPR/BL5644IK/V005

Permit number
EPR/BL5644IK

Felinfach Food Flavours Factory

Permit number EPR/BL5644IK

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.

Existing scrubbers A4 and A5 are to be replaced with refurbished units of a larger throughput capacity. The scrubber replacement is taking place as the existing units are undersized.

The site has also converted their boilers and thermo-fluid boilers from using fuel oil to using Liquefied Petroleum Gas (LPG).

As part of this variation the requirement for the operator to monitor waste water discharges from site have been removed – this is because all site effluent is currently discharged to a separately permitted effluent treatment plant owned by the operator and another local business.

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 BL5644	Duly made 15/11/01	Application received for a new permit for the production of food flavourings from the hydrolysis of vegetable matter.
Schedule 4 request for more information made	13/12/01	Monitoring data requested from applicant
Request made by applicant to extend Schedule 4 deadline	27/12/01	
Request accepted	04/01/02	
Request made by applicant to extend Schedule 4 deadline	18/04/02	
Request accepted	20/04/02	
Additional information received in response to Schedule 4 request on 13/12/01	29/07/02	Monitoring data received
Schedule 4 request for more information made	27/09/02	
Additional information received in response to Schedule 4 request on 27/09/02	29/10/02	
Additional information received in response to Schedule 4 request on 27/09/02	06/03/03	
Request made to extend determination deadline	10/01/03	
Request to extend determination deadline accepted	13/01/03	
Permit determined BL5644	26/03/03	Permit issued to Sensient Flavors Limited
Variation Application TP3138XD	28/02/08	Application received to change installation boundary and install new rotary vacuum filter, hydrolysis reactor scrubber and filter press scrubber.
Variation determined TP3138XD	28/04/08	Varied permit issued.
Variation Application EPR/BL5644IK/V003	Duly made 29/09/09	Application received for the installation of a new boiler.
Variation determined EPR/BL5644IK/V003	09/09/10	Varied permit issued.
Variation Application EPR/BL5644IK/V004	28/05/13	Application received.

Application withdrawn by applicant EPR/BL5644IK/V004	03/07/13	Application withdrawn by applicant
Variation Application EPR/BL5644IK/V005	Duly Made 12/01/16	
Additional Information requested	11/03/16	Information relating to drainage, air emission point locations and storage of fuel
Additional Information Received	31/03/16	
Permit Determined	24/05/16	

Other Part A installation permits relating to this installation

Operator	Permit number	Date of issue
Sensient Flavours Limited & Volac International Limited	EPR/BP3135EB	04/07/14

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

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 2010 varies and consolidates

Permit number
EPR/BL5644IK

issued to
Sensient Flavours Limited (“the operator”)

whose registered office is

**Bilton Road
Bletchley
Milton Keynes
Buckinghamshire
MK1 1HP**

company registration number 1514781

to operate a regulated facility at

**Sensient Flavours Limited
Felinfach
Lampeter
Ceredigion
SA48 8AG**

to the extent set out in the schedules.

The notice shall take effect from 24/05/16

Signed

Date

	24 May16
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Eirian Macdonald
Authorised on behalf of Natural Resources Wales

Schedule 1

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

Table S1.1 has been changed to reflect the new Directly Associated Activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	S4.2 A (1) (b)	Manufacturing activity which is likely to result in the release into the air of any hydrogen halide	Production of hydrolysed vegetable protein from the reaction of hydrochloric acid and vegetable matter
Directly Associated Activity			
A2	Storage and handling of raw materials	Raw material storage, handling, preparation and transfer	From the receipt of raw materials to their transfer to the hydrolysis reactor vessel
A3	Site generated energy supply for process	Generation of energy, steam and heat	Those boilers that provide energy for the Company's activities. Boilers to be run on LPG under normal conditions and fuel oil should the need arise
A4	Processing of the product	Processing of the product including neutralisation, filtration, blending, drying, bagging etc.	From production of flavourings to the final product storage areas
A5	Handling and storage of solid wastes	Handling and storage of solid wastes	From the point of production of any solid wastes to their collection, storage and transfer off site
A6	Handling and storage of liquid wastes	Handling and storage of liquid wastes including abatement scrubber liquors, process liquors, wash waters, other effluents and cooling waters	From the point of production of any liquid wastes to their collection, treatment and transfer offsite.
A7	The operation and control of emission abatement systems	The operation and control of emissions abatement systems	Operation of dosing and abatement scrubbers for air emissions and effluent treatment
A8	Handling and storage of fuel on site	Storage and handling of Liquefied Petroleum gas (LPG)	Liquefied Petroleum Gas (LPG) delivered to site to be used in the boilers and thermo-fluid systems. Maximum of 24 tonnes to be kept on-site at any one time.

Table S1.2 has been updated to include the relevant information submitted with this normal variation.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	B.2.1, B.2.2, B.2.3, B.2.4, B.2.5, B.2.6, B.2.7, B.2.8, B.2.9, B.2.10, B2.11	15/11/01
Response to first Schedule 4 part 1 notice (13/12/01)	Response to questions 1 and 2	29/07/02
Response to second Schedule 4 part 1 notice (27/09/02)	Response to questions 3-16	29/10/02 & 06/03/03
Application EPR/BL5644IK/V003	Report variation 2009	29/09/09
Application EPR/BL5644IK/V005	All parts of application forms	22/12/15
Application EPR/BL5644IK/V005	Updated Odour Management Plan	22/12/15
Application EPR/BL5644IK/V005	Updated Emission point location points	22/12/15
Application EPR/BL5644IK/V005	Non-Technical Summary and information. Parts 1 – 4	22/12/15
Additional Information Received	Updated drainage map, emission points, confirmation of storage plans and emissions to air	31/03/16

Table S1.3 has been updated with 2 improvement conditions and revised time scales in which to complete the works.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
9.23	The operator shall undertake the monitoring of those parameters that have a monitoring requirement but no emission limit in table S3.1 and shall submit a report to Natural Resources Wales setting out the emission levels, together with confidence limits, that can be achieved by the existing air emission abatement equipment.	31/07/2017
9.24	The operator shall submit an assessment to Natural Resources Wales of the Annual Total Mass Emissions of Hydrogen Chloride, Ammonia, Particulates, Volatile Organic Compounds (VOC's) for the installation. This shall include details of any calculations etc. that have been undertaken to determine these figures.	31/07/2017

Table S2.1 has been updated to show the new fuel (LPG) that is to be used on site in the boilers

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Liquefied Petroleum Gas – 24 tonnes	Used as a fuel in boilers
Fuel Oil – 170,000 litres	Used as a fuel in boilers
Hydrochloric Acid	Used as a reactant
Vegetable Matter	Used as a reactant
Flavouring compounds and chemicals	Used in the process

Table S3.1 has been updated to represent the new locations of acid scrubbers A4 and A5 and the table has also been updated to show where emission points have been removed. Numbering within the table to describe the equipment has also been updated to provide clarity.

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 Point A1 (304-466-001) on site plan 400-000-025-010	Hydrochloric acid bulk tank scrubber	Gaseous chlorides (as HCl)	10mg m ⁻³	Hourly	Quarterly	Monitoring methods used shall be in accordance with Environment Agency document "Technical Guidance Note M2 Monitoring of stack emissions to air".
A2 Point A2 (102-466-004) on site plan 400-000-025-010	Hydrolysis Reactor scrubber	Gaseous chlorides (as HCl)	No Limit Set	Hourly	Quarterly	
		Particulate	20mg m ⁻³	Hourly	Quarterly	
		Volatile Organic Compounds (as Carbon)	No Limit Set	Hourly	Quarterly	
A3 Point A3 (102-466-001) on site plan 400-000-025-010	Neutraliser scrubber	Gaseous chlorides (as HCl)	No Limit Set	Hourly	Quarterly	
		Particulate	20mg m ⁻³	Hourly	Quarterly	
		Ammonia	20mg m ⁻³	Hourly	Quarterly	
		Volatile Organic Compounds (as Carbon)	No Limit Set	Hourly	Quarterly	
A4 Point A4 (103-466-001) on site plan 400-000-025-010	Filter press scrubber (pH adjustment)	Particulate	20mg m ⁻³	Hourly	Quarterly	
		Ammonia	No Limit Set	Hourly	Quarterly	
		Volatile Organic Compounds (as Carbon)	40mg m ⁻³	Hourly	Quarterly	
A5 Point A5 (107-466-001) on site plan 400-000-025-010	Reaction flavour scrubber (reaction flavours)	Particulate	20mg m ⁻³	Hourly	Quarterly	
		Ammonia	No Limit Set	Hourly	Quarterly	
		Volatile Organic Compounds (as Carbon)	No Limit Set	Hourly	Quarterly	
A6 Point A6 (164-466-001) on site plan 400-000-025-010	Drytec scrubber (spray drier)	Particulate	20mg m ⁻³	Hourly	Quarterly	
		Volatile Organic Compounds (as Carbon)	40mg m ⁻³	Hourly	Quarterly	
A7 Point A7 (108-466-001) on site plan 400-000-025-010	Eva scrubber (spray drier)	Particulate	20mg m ⁻³	Hourly	Quarterly	
		Volatile Organic Compounds (as Carbon)	40mg m ⁻³	Hourly	Quarterly	

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A9 Point A9 (102-460-001) on site plan 400-000-025-010	Press hood vent					No Monitoring Required
A11 Point A11 (114-475-001) on site plan 400-000-025-010	Finished liquor processing area LEV (No. 1)	Volatile Organic Compounds (as Carbon)	No Limit Set	Hourly	6 monthly	Monitoring methods used shall be in accordance with Environment Agency document "Technical Guidance Note M2 Monitoring of stack emissions to air".
A12 Point A12 (114-475-002) on site plan 400-000-025-010	Finished liquor processing area LEV (No. 2)	Volatile Organic Compounds (as Carbon)	No Limit Set	Hourly	6 monthly	
A13 Point A13 (201-538-101) on site plan 400-000-025-010	Boiler Flue No. 1					No Monitoring Required
A14 Point A14 (201-538-201) on site plan 400-000-025-010	Boiler Flue No. 2					No Monitoring Required
A16 Point A16 (102-431-002) on site plan 400-000-025-010	Soda ash silo vent					No Monitoring Required
A17 Point A17 (305-431-001) on site plan 400-000-025-010	Maize silo vent No.1					No Monitoring Required
A18 Point A18 (305-431-002) on site plan 400-000-025-010	Soya silo vent No. 2					No Monitoring Required
A19 Point A19 (101-451-001) on site plan 400-000-025-010	Micropul vacuum outlet					No Monitoring Required

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A20 Point A20 (163-442-003) on site plan 400-000-025-010	Drytec Wanson boiler flue					No Monitoring Required
A22 Point A22 (106-442-003) on site plan 400-000-025-010	Eva Wanson boiler flue					No Monitoring Required
A23 Point A23 (165-431-002) on site plan 400-000-025-010	1 MT blender bagging LEV					No Monitoring Required
A25 Point A25 (105-465-001) on site plan 400-000-025-010	Seasoning blender charging LEV					No Monitoring Required
A27 Point A27 (195-441-001) on site plan 400-000-025-010	Cooling tower					No Monitoring Required
A28 Point A28 (113-430-140) on site plan 400-000-025-010	Yeast storage tank vent					No Monitoring Required
A29 Point A29 (113-430-141) on site plan 400-000-025-010	Yeast storage tank vent					No Monitoring Required
A30 Point A30 (113-430-142) on site plan 400-000-025-010	Yeast storage tank vent					No Monitoring Required
A31 Point A31 (113-430-143) on site plan 400-000-025-010	Yeast storage tank vent					No Monitoring Required
A32 Point A32 (113-430-144) on site plan 400-000-025-010	Yeast storage tank vent					No Monitoring Required

Table S3.2 has been amended to remove the monitoring requirement from the permit – this is due to effluent being discharged to a separately permitted facility

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
E1	On-Site effluent plant					No Monitoring Required

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.