

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Mr Jon Smith, Mrs Josephine Smith & Mr Thomas Smith

Astmans Farm Poultry Unit
Maisemore
Gloucester
GL2 8HP

Variation application number

EPR/UP3330RL/V003

Permit number

EPR/UP3330RL

Astmans Farm Poultry Unit

Permit number EPR/UP3330RL

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

This variation authorises the following changes:

- Increase in bird numbers from 100,000 to 200,000 broiler places.
- Installation of two additional poultry houses, numbered 3 and 4.
- Installation of wet acid air scrubber units on poultry houses 3 and 4.
- Installation boundary increased to accommodate the additional poultry houses.
- Removal of reference to Grade A waste wood from Table S2.1, which was previously included in error. Biomass boilers will operate on non-waste wood only.
- Amendment to site drainage details in Table S3.2.
- Amendment to ventilation details in Table S3.1, to add gable end fans on poultry houses 1 and 2.
- Thermal rated input of the biomass boiler reduced from 1.071Mwth to 0.968MWth, in Tables S1.1 and S3.1.
- An improvement condition, IC1, has been added to Table S1.3.
- A pre-operational measure, PO1, has been added to Table S1.4.
- Site address is corrected.

We have reviewed the new housing introduced with the permit variation for this installation against the best available techniques (BAT) conclusions as defined in the intensive rearing of poultry or pigs (IRPP) BAT conclusions document, dated 21/02/17. The permit conditions and schedules ensure the compliance of the new housing with this BAT conclusions document. In addition, we have reviewed existing housing, permitted before 21/02/17, to ensure compliance.

The rest of the installation is operated as follows:

Astmans Farm Poultry Unit is situated approximately 900 metres northwest of the village of Maisemore in Gloucester. The Installation is approximately centred on National Grid Reference SO 80638 22232.

The Installation is operated by Mr Jon Smith, Mrs Josephine Smith and Mr Thomas Smith and comprises four poultry houses, numbered one to four, with a combined capacity of 200,000 broiler places designed for the rearing of chicken for meat production. Chicks are brought in from hatchery at a day old and reared to approximately thirty-two to forty-two days, before being transported off-site for processing, on an all-in, all-out basis. This will result in approximately seven bird rearing cycles per annum.

Poultry houses 1 and 2 are ventilated by roof extraction fans, with an emission point higher than 5.5 metres above ground level and an efflux speed at or greater than 11 metres per second, with side wall inlets. The two houses also have gable end fans, although these are operated infrequently to maintain temperature, typically in the summer months. Houses 3 and 4 are fitted with wet acid air scrubbers to reduce emissions of odour. The scrubber units are fitted to the northern gables of the poultry houses; high pressure fans are fitted into the gable end wall of the poultry houses and an airtight connection is constructed between the poultry house and scrubber modules. Each scrubber has an efflux velocity of 11 metres per second and a release height of 6.5 metres above ground level. The scrubbers will treat 70% of the airflow, with the remaining 30%

bypassing the scrubber via high velocity roof mounted fans, with an emission point higher than 5.5 metres above ground level and an efflux speed at or greater than 11 metres per second, with side wall inlets. Dirty water from the scrubbing process will be disposed of off-site via a licensed waste facility. Odour emissions at the scrubber outlets will be reduced significantly.

The houses are warmed by a biomass boiler with a thermal rated input of 0.968 MWth which burns clean, virgin biomass woodchip as fuel for the production of hot water to heat the poultry houses. As the thermal rated input of the biomass boiler is less than 1MWth, it falls outside of the requirements of the Medium Combustion Plant Directive.

Birds are fed a minimum of three diets during their growth, with gradually reducing levels of protein and phosphorous as bird age increases. Feed is delivered from a UKAS accredited feed mill and blown into bulk feed bins situated at the ends of the houses, from the feed bins the feed is augered into the houses and distributed to the birds via a pan feeding system.

At the end of the growing period, all birds are removed from the houses and the litter is exported off site and spread on land owned by either the Operator or third parties. The empty houses are then washed and disinfected ready for the next crop. The wash water is channelled to underground collection tanks and subsequently the contents are exported off site and spread on land owned by third parties. Roof water from the poultry houses and yard surface water (excluding poultry house clean out periods) drain to an unlined attenuation pond acting as a soakaway, via French drains. The pond has an outlet to an off-site ditch, located to the south-east of poultry house 3, which ultimately drains to the River Severn. During clean out operations, a diverter valve is used to channel yard surface water to the wash water collection tank for exporting off site.

The poultry unit lies on level ground, and the land around the site is used primarily for arable farming. Mortalities are collected and recorded daily and stored in sealed vermin-proof containers on site prior to collection by a licensed renderer and disposal in accordance with the Animal By-Product Regulations.

There are three Sites of Special Scientific Interest (SSSI) within 5km of the installation boundary and fourteen other nature conservation sites within 2km, comprising ten Local Wildlife Sites (LWS) and four ancient woodlands. An assessment has been carried out and the Installation is not considered likely to adversely affect these nature conservation sites.

This permit implements the requirements of the European Union Directive on Industrial Emissions.

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 EPR/UP3330RL/A001	Duly made 16/01/17	Application for an intensive farming poultry installation permit.
Additional information received (Schedule 5 Notice sent 07/04/17)	23/04/17 05/05/17 11/05/17	Confirmation of compliance with the Best Available Techniques (BAT) Conclusion document dated 21/02/17, and receipt of a revised Odour Management Plan (23/04/17). Clarification of site drainage, poultry house ventilation system, clean out procedures and document titles.
Additional information received (Request for Further Information sent 22/05/17)	25/05/17	Clarification of site drainage and that no wheel wash is present, and receipt of revised site drainage plan and revised technical standards.
Permit determined EPR/UP3330RL	02/11/2017	Permit issued to Mr Jon Smith, Mrs Josephine Smith & Mr Thomas Smith.
Application EPR/UP3330RL/V002	Duly made 28/08/19	Application to vary permit, to relocate some buildings, infrastructure and add an attenuation pond.

Status log of the permit		
Description	Date	Comments
Response to Request for Further Information sent 28/04/20	29/04/20	Updated Accident risk Assessment and Fugitive Emissions risk assessment.
Variation determined EPR/UP3330RL	06/05/2020	Permit variation issued to Mr Jon Smith, Mrs Josephine Smith & Mr Thomas Smith.
Application EPR/UP3330RL/V003 (variation and consolidation)	Duly made 15/01/22	Application to increase bird numbers from 100,000 to 200,000 broiler places, add two additional poultry houses, with air scrubbers, and increase the installation boundary.
Additional information received	25/01/22	Revised site drainage plan showing revised location of scrubbers.
Additional information received (Response to Schedule 5 Notice sent 01/03/22)	28/03/22, 14/04/22, 27/04/22 and 28/04/22	Response to parts a – to d, including: <ul style="list-style-type: none"> • Further details of air scrubbers, including trial data • DLG test report for scrubbers • Revised noise management plan • Revised site drainage plan • Revised site condition report • Revised odour management plan • Odour monitoring locations
Additional information received	16/06/22	Confirmation that the dirty water from the air scrubbers will be removed off site for disposal via a licensed waste facility.
Additional information received	22/06/22	Confirmation of the date the biomass boiler first came into operation.
Additional information received	04/07/22	Confirmation that the thermal rated input of the biomass boiler is 0.968 MWth.
Additional information received	06/07/22	Confirmation of light minimisation measures.
Additional information received	12/07/22	Revised site plan.
Additional information received	03/08/22	Request to include gable end fans for poultry houses 1 and 2 and correct the site address.
Additional information received	11/08/22	Revised site drainage plan showing gable end fans on houses 1 and 2.
Variation determined EPR/UP3330RL (Billing reference: BP3900MC)	12/08/22	Varied and consolidated permit issued in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/UP3330RL

Issued to

Mr Jon Smith, Mrs Josephine Smith & Mr Thomas Smith (“the operator”)

whose principal office is

**Astmans Farm
Lassington Lane
Highnam
Gloucester
GL2 8DH**

to operate an installation at

**Astmans Farm Poultry Unit
Maisemore
Gloucester
GL2 8HP**

to the extent set out in the schedules.

The notice shall take effect from 12/08/2022

Name	Date
Dan Pursglove	12 August 2022

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit EPR/UP3330RL, as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/UP3330RL

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/UP3330RL/V003 authorising,

Mr Jon Smith, Mrs Josephine Smith & Mr Thomas Smith (“the operator”),

whose principal office is

**Astmans Farm
Lassington Lane
Highnam
Gloucester
GL2 8DH**

to operate an installation at

**Astmans Farm Poultry Unit
Maisemore
Gloucester
GL2 8HP**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Dan Pursglove	12 August 2022

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, so far as is reasonably practicable, including those risks arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of the permit.

1.2 Energy efficiency

1.2.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities; and
- (b) maintain records of fuel and energy consumption used in the activities.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities; and
- (b) maintain records of raw materials and water used in the activities.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities and that;

- (a) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (b) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

2 Operations

2.1 Permitted activities

2.1.1 The only activity authorised by the permit is the activity specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 The operator shall maintain and implement a system to record the number of animal places and animal movements.
- 2.3.4 The operator shall ensure that a diet formulation and nutritional strategy is used to reduce the total nitrogen and total phosphorus excreted.
- 2.3.5 The operator shall take appropriate measures in disposal or recovery of solid manure or slurry to prevent, or where this is not practicable, to minimise pollution.
- 2.3.6 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.7 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points specified in tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.
- 3.1.4 For the following activities referenced in schedule 1, table S1.1 the first monitoring measurements shall 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.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency 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; and
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2; and
 - (b) process monitoring specified in table S3.3.

- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests; and
 - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by schedules 3, 4 and 5 to this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plans and management system required to be maintained by this permit.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 For the following activities referenced in schedule 1, table S1.1 a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data.

- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately :-
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents; and
 - (b) of a breach of any permit condition the operator must immediately :-
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (c) any change in the operator's name or address; and
 - (d) any steps taken with a view to the dissolution of the operator.

In any other case:

- (e) the death of any of the named operators (where the operator consists of more than one named individual);
- (f) any change in the operator's name(s) or address(es); and
- (g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Section 6.9 A(1)(a)(i) Rearing of poultry intensively in an installation with more than 40,000 places	The rearing of poultry in a facility with a capacity for 200,000 broiler places.	From receipt of birds, raw materials and fuels onto the site to removal of birds and associated wastes from site.
Directly Associated Activity	Description of specified activity	Limits of specified activity
Biomass boiler	Operation of 1 biomass boiler with a thermal rated input not exceeding 0.968 megawatts. Individual unit for site heating requirements, burning biomass fuel not comprising waste or animal carcasses.	From receipt of raw materials and fuels, to release of combustion products to air and associated wastes removed from site.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/UP3330RL/A001	Responses to application form B3.5 and referenced supporting documentation. Responses to Not Duly Made Request for Further Information.	16/01/17
Response to Schedule 5 Notice dated 07/04/17	Responses including confirmation of compliance with the Best Available Techniques (BAT) Conclusion document dated 21/02/17, clean out procedures and submission of: <ul style="list-style-type: none"> • 'Astmans Farm Diverter Operation' • 'Key Responsibilities Astmans Farm' • 'Routine Maintenance Schedule Astmans Farm Poultry Unit'. 	23/04/17 05/05/17 11/05/17
Response to Request for Further Information sent 22/05/17	Confirmation that no wheel wash is present.	25/05/17
Application EPR/UP3330RL/V002	Responses to application form Part C3.5 of the application form and referenced supporting documentation.	13/08/19
Application EPR/UP3330RL/V003	Responses to application form Part C3.5 of the application form and referenced supporting documentation and additional information received in response to not duly made request for information, including confirmation of compliance with all relevant best available techniques (BAT) conclusions as defined in the intensive rearing of poultry or pigs (IRPP) BAT conclusions document, dated 21/02/17, confirmation that scrubbers can be retrofitted to existing poultry houses and receipt of the following document: <ul style="list-style-type: none"> • Environmental risk assessment • Section 4.2.1 of air scrubber user manual (critical operating parameters) 	15/01/22

Table S1.2 Operating techniques		
Description	Parts	Date Received
	<ul style="list-style-type: none"> Technical standards document 	
Response to Schedule 5 Notice dated 01/03/22	Response to parts a to c, including: <ul style="list-style-type: none"> Further details of air scrubbers DLG test results DLG test report 6260 Revised noise management plan Revised site condition report Revised odour management plan Odour monitoring locations 	28/03/22, 14/04/22, 27/04/22 and 28/04/22
Response to Request for Further Information sent 16/06/22	Confirmation that dirty water from the air scrubbers will be removed off site for disposal, via a licensed waste facility.	16/06/22
Response to Request for Further Information sent 21/06/22	Confirmation of the date the biomass boiler first came into operation.	22/06/22
Response to Request for Further Information sent 30/06/22	Confirmation that the thermal rated input of the biomass boiler is 0.968 MWth.	04/07/22
Response to Request for Further Information sent 05/07/22	Confirmation of light minimisation measures.	06/07/22
Response to request for Further Information sent 12/07/22	Revised site plan.	12/07/22
Additional information received	Request to include gable end fans for poultry houses 1 and 2, in Table S3.1.	03/08/22
Response to request for Further Information sent 10/08/22	Revised site drainage plan.	11/08/22

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>The Operator shall undertake 12 months monitoring of the efficiency of the wet acid air scrubber unit on poultry house 3 following the method report as required in condition PO1.</p> <p>a) After the wet acid air scrubber abatement system has been operational for 12 months, the Operator shall undertake a review of the odour monitoring results, required as evidence that odour levels at the scrubber outlet in oue/m^3 are in compliance with the overall average data for summer and winter conditions as presented in the document referenced 'Odour reduction Pollo-M DLG measurements', received on 14/04/22, and provide a report detailing the results of the monitoring trials within 1 calendar month of that date. In addition, the report shall provide evidence that 70% of the installed maximum summer housing air flow rate is treated via the scrubber, in accordance with the DLG test report 6260, received on 28/03/22.</p>	<p>a) Report to be submitted within 13 calendar months from commencement of operation of the wet acid air scrubber abatement system</p>

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
	<p>b) If the odour monitoring results do not indicate a reduction in-line with the document as detailed in section a) of this improvement programme, the Operator shall submit a report in writing, including timescales, to be agreed in writing by the Environment Agency, for the implementation of alternative mitigation measures to achieve the required reduction in odour emissions, or for the reduction in livestock to achieve the equivalent reduction in odour emissions.</p> <p>c) The Operator shall undertake the agreed measures to the agreed timescales detailed in the report submitted for IC1 (b).</p> <p>The improvement condition parts a), b) and c) shall only be deemed complete following agreement in writing by the Environment Agency.</p>	<p>b) 2 calendar months from completion of IC1 (a)</p> <p>c) To timescale agreed in report submitted for IC1 (b)</p>

Table S1.4 Pre-operational measure

Reference	Operation	Pre-operational measures
1	Operation of poultry houses 3 and 4.	<p>At least 1 calendar month prior to the installation of monitoring equipment for monitoring odour emissions from the wet acid air scrubber unit on poultry house 3, the Operator shall submit a written report for approval to the Environment Agency, which details the odour monitoring programme, including details of types and locations of sensors. The report shall also include, but not be limited to:</p> <ul style="list-style-type: none"> any relevant standards used for the monitoring, and sampling and analysis methodologies used to obtain the data. monitoring covering a minimum of 12 months of operation with broiler chickens. an assessment of the actual operating hours for the scrubber over the 12-month period. <p>Installation of the odour monitoring equipment shall not commence until the Environment Agency agrees in writing this pre-operational condition report.</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel for biomass boiler units	Biomass chips or pellets comprising virgin timber, straw, miscanthus; or a combination of these.

Schedule 3 – Emissions and monitoring

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
High velocity roof fan outlets on poultry houses 1 to 4 as shown on the site drainage plan in schedule 7	Poultry houses 1 to 4	---	---	---	---	---
Gable end fan outlets on poultry houses 1 and 2 as shown on the site drainage plan in schedule 7	Poultry houses 1 and 2	---	---	---	---	---
Fan outlets from wet acid air scrubber units on poultry houses 3 and 4 as shown on the site drainage plan in schedule 7	Poultry houses 3 and 4	---	---	---	---	---
Exhaust from standby generator as shown on the site drainage plan in schedule 7	Standby Generator	---	---	---	---	---
Vent from oil tank as shown on the site drainage plan in schedule 7	Diesel tank	---	---	---	---	---
Emissions from 1 biomass boiler as shown on the site drainage plan in schedule 7	0.968 MWth biomass boiler	----	---	---	---	---

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Outlet to surface water ditch to the south-east of poultry house 3, via an unlined attenuation pond, as indicated on the site drainage plan in schedule 7 which ultimately drains to the River Severn	Roof water from poultry houses 1 to 4 and the biomass boiler building, and yard surface water (excluding all times yards are contaminated e.g. catching,	---	---	---	---	---

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

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
	mucking out or washing) intercepted by French drains prior to discharge					
Outlet to an unlined attenuation pond, acting as a soakaway, to the south-east of poultry house 3, as indicated on the site drainage plan in schedule 7	Roof water from poultry houses 1 to 4 and yard surface water (excluding all times yards are contaminated e.g. catching, mucking out or washing) intercepted by French drains prior to discharge	---	---	---	---	---

Table S3.3 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Limit (incl. Unit)	Monitoring frequency (1)	Monitoring standard or method
Broilers in houses 1 to 4	kg N excreted/animal place/year	0.6 kg N/animal place/year	Annually	Estimation by using manure analysis for total nitrogen content
	kg P ₂ O ₅ excreted/animal place/year	0.25 kg P ₂ O ₅ /animal place/year	Annually	Estimation by using manure analysis for total phosphorus content
Broilers in houses 1 and 2 (Fan ventilated fully littered floor, non-leaking drinkers)	kg NH ₃ /animal place/year	0.08 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Broilers in houses 3 and 4 with ammonia abatement in housing exhaust ventilation	kg NH ₃ /animal place/year	0.025 kg NH ₃ /animal place/year	Annually	Estimation using emission factors
Broilers in houses 1 to 4	Dust	n/a	Annually	Estimation using emission factors
Wet acid air scrubbers on houses 3 and 4	Operational parameters	n/a	Hourly	Continuous

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Process monitoring Parameters as required by condition 3.5.1	-	Every 12 months	1 January

Table S4.2 Reporting forms		
Media/parameter	Reporting format	Date of form
kg NH ₃ /animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	12/08/22
kg N excreted/animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	12/08/22
kg P ₂ O ₅ excreted/animal place/year	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	12/08/22
Dust atmospheric mass emission	Form Process Monitoring 1 or other form as agreed in writing by the Environment Agency	12/08/22

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit number	
Name of operator	
Location of facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	
Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“emissions to land” includes emissions to groundwater.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“Existing housing” means housing that is not defined as new housing.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“Manure and slurry” have the following meaning:

- Manures may be either slurries or solid manures.
- Slurries consist of excreta produced by livestock whilst in a yard or building mixed with rainwater and wash water and, in some cases, waste bedding and feed. Slurries can be pumped or discharged by gravity.
- Slurry includes duck effluent, seepage from manure and wash water.
- Solid manures include farmyard manure (FYM) and comprise material from straw-based housing systems, excreta with lots of straw/sawdust/woodchips in it, or solids from mechanical separators.
- Most poultry systems produce solid manure (litter).
- Solid manure can generally be stacked.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“New housing” means housing first permitted at the installation following the publication of the intensive rearing of poultry or pigs (IRPP) best available techniques (BAT) conclusions document dated 21/02/17, or a complete replacement of existing housing after 21/02/17.

“pests” means Birds, Vermin and Insects.

“virgin timber” means timber from:

- Whole trees and the woody parts of trees including branches and bark derived from forestry works, woodland management, tree surgery and other similar operations (it does not include clippings or trimmings that consist primarily of foliage);
- Virgin wood processing (e.g. wood offcuts, shavings or sawdust from sawmills) or timber product manufacture dealing in virgin timber.
- If virgin timber is mixed with waste timber or any other waste, the mixed load is classed as waste.

“Waste code” means the six-digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

“year” means calendar year ending 31 December.

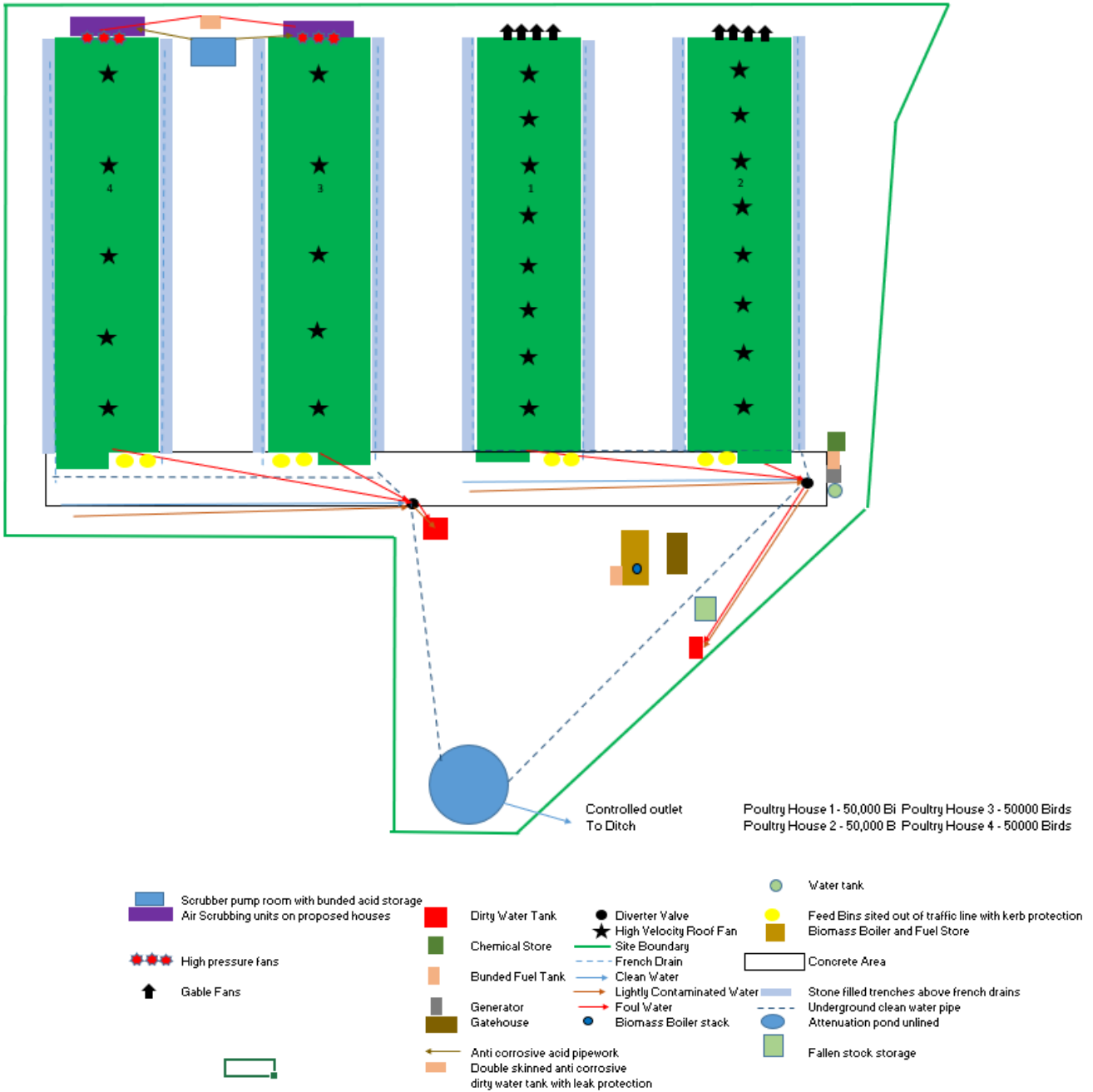
Schedule 7 – Site plan

Site plan - showing installation boundary as referred to in condition 2.2.1.



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Astmans Farm Poultry Unit Layout Drainage Plan



END OF PERMIT