

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Swancote Energy Limited

Swancote Farm

Swancote

Bridgnorth

Shropshire

WV15 5HA

Variation application number

EPR/TP3692EU/V004

Permit number

EPR/TP3692EU

Swancote Farm Permit number EPR/TP3692EU

Introductory note

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

Under the Environmental Permitting (England & Wales) Regulations 2010 (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.

The Industrial Emissions Directive (IED) was transposed in England and Wales by the Environmental Permitting (England and Wales)(Amendment) Regulations 2013 on 27 February 2013. This variation implements the changes brought about by the IED for "existing facilities operating newly prescribed activities" and completes the transition of this facility from a waste operation to an IED Installation.

In addition, this variation increases the annual waste throughput from 38,000 tonnes to 75,000 tonnes and adds a combined heat and power (CHP) engine to the existing two engines. The aggregated rated thermal input of the three CHP engines is 7.8 megawatts.

The facility comprises of an on-farm anaerobic digestion facility with combustion of the resultant biogas in gas engines. The operator will use the digester tanks to store the digestate produced from the anaerobic digestion of wastes.

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/TP3692EU/A001	Duly made 15/04/11	Application for an on-farm anaerobic digestion facility, with the use of the resultant biogas in a combined heat and power generation unit.	
Permit determined	01/09/11	Permit issued to Swancote Energy Limited	
Application EPR/TP3692EU/V002 (variation)	Duly made 22/12/11	Application to vary the permit to include additional waste types and increase the site area.	
Variation determined EPR/TP3692EU	02/03/12	Varied permit issued to Swancote Energy Limited.	
Application EPR/TP3692EU/V003 (variation)	Duly made 22/12/11	Application to vary the permit to change to a new prescribed activity. This application was withdrawn.	
Application EPR/TP3692EU/V004 (variation and consolidation)	Duly made 24/07/15	Application to vary and update the permit to modern conditions, become an installation activity, and insert additional emission point to air and surface water.	
Additional Information	19/10/15	Response to Schedule 5 – clarifying and modelling emissions	

Status log of the permit			
Description	Date	Comments	
Additional Information	02/11/15	Response to Schedule 5 – rerunning part of the model and clarifying the modelling conclusions.	
Variation determined EPR/TP3692EU (Billing Ref: XP3633RA)	09/11/15	Varied permit and consolidated permit issued in modern condition format issued to Swancote Energy Limited.	

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/TP3692EU

issued to

Swancote Energy Limited ("the operator")

whose registered office is

Tudor House 37A Birmingham New Road Wolverhampton WV4 6BL

company registration number 07322505

to operate a regulated facility at

Swancote Farm Swancote Bridgnorth Shropshire WV15 5HA

to the extent set out in the schedules.

The notice shall take effect from 09/11/2015

Name	
Al	Date
Claire Roberts	09/11/2015

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit 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 2010

Permit number

EPR/TP3692EU

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/TP3692EU/V004 authorising,

Swancote Energy Limited ("the operator"),

whose registered office is

Tudor House 37A Birmingham New Road Wolverhampton WV4 6BL

company registration number 07322505

to operate an installation at

Swancote Farm Swancote Bridgnorth Shropshire WV15 5HA

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

Name	Date
Claire Roberts	09/11/2015

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:
 - in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances 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 it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 The operator shall:
 - (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
 - take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

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

- 1.4.1 The operator shall take appropriate measures to ensure that:
 - (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) 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
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

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 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 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.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

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 schedule 1 table S1.4 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 listed in schedule 3 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.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) 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;
 - (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.
- 3.3.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency 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 the Environment Agency.

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.
- 3.4.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency 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 the Environment Agency.

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;
 - (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.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 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:
 - 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 from pests;
 - (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 this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - 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 keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

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 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;
 - (b) the annual production/treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 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 S4.4; 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.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

4.3.1 In the event:

- 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;
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, 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:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (c) the death of any of the named operators (where the operator consists of more than one named individual);
- (d) any change in the operator's name(s) or address(es); and
- (e) 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	Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types	
A1	S5.4 A(1) (b) (i) Recovery or a mix of recovery and disposal of non hazardous waste with a capacity exceeding 100 tonnes per day involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents	From receipt of waste through to digestion and recovery of byproducts (digestate). Anaerobic digestion of waste in four tanks followed by burning of biogas produced from the process. Waste types suitable for acceptance are limited to those specified in Table S2.2.	
	Directly Associated Activity			
A2	Storage of waste pending recovery or disposal	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery and/or disposal. Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with sealed drainage. Waste types suitable for acceptance are limited to those specified in Table S2.2	
A3	Physical treatment for the purpose of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery. Pre-treatment of waste in enclosed building and on impermeable surface with sealed drainage system including shredding, sorting, screening, compaction, baling, mixing and maceration. Post-treatment of digestate in an enclosed building and on an impermeable surface with sealed drainage system, including screening to remove contraries, centrifuge or pressing and addition of	

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
¥			thickening agents (polymers) or drying for use as a fertiliser or soil conditioner (drying for the purpose of use as a fuel is not permitted).
			Heat treatment (pasteurisation) of waste in tanks for the purpose of recovery.
			Gas cleaning by biological or chemical scrubbing.
			Waste types suitable for acceptance are limited to those specified in Table S2.2.
A4	Steam and electrical power supply	R1: Use principally as a fuel to generate energy	From the receipt of biogas produced at the on-site anaerobic digestion process to combustion with the release of combustion gases.
			Combustion of biogas in three combined heat and power (CHP) engines with an aggregated thermal input of 7.8 MWth.
A5	Emergency flare operation	D10: Incineration on land	From the receipt of biogas produced at the on-site anaerobic digestion process to incineration with the release of combustion gases.
			Use of one auxiliary flare required only during periods of breakdown or maintenance of the CHP engines.
A6	Raw material storage	Storage of raw materials including lubrication oil, antifreeze, ferric chloride, activated carbon, diesel.	From the receipt of raw materials to despatch for use within the facility.
A7	Gas storage	Storage of biogas produced from on-site anaerobic digestion of permitted waste in one stand-alone tank.	From the receipt of biogas produced at the on-site anaerobic digestion process and propane to despatch for use within the facility.
A8	Digestate storage	R13: Storage of waste	From the receipt of digestate

Table S1.1 activities				
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types	
		pending the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	produced from the on-site anaerobic digestion process to despatch for use off-site. Storage of liquid digestate in two storage tanks. Storage of solid digestate in the building.	
A9	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water in storage tank.	From the collection of uncontaminated roof and site surface water from non operational areas only to reuse within the facility or discharge off-site.	

Table S1.2 Operating techniques			
Description	Parts	Date Received	
Application	The response to section 3a of Part B4 of the application form – technical standards and operating techniques.	15/04/11	
Notice dated 10/06/11 response to the Schedule 5 notice.		14/07/11, 28/07/11, 29/07/11, 08/08/11, 11/08/11, 24/08/11 and 25/08/11	
Response to Schedule 5 Notice dated 10/06/11	Appendix L Odour Management Plan Version 4, dated 25 August 2011 and Table 1 Odour Risk Assessment and Management Plan Version 4, dated 24 Aug 2011.	24/08/11 and 25/08/11	
Application (variation V002)	The response to question 3 of Part C4 of the application form – operating techniques and technical standards.	22/12/11	
Application (variation V004)	The response to question 3 of Part C4 of the application form – operating techniques and technical standards.	24/07/15	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The operator shall ensure that a review of the design, method of construction and integrity of the proposed site secondary containment is carried out by a qualified structural engineer. The review shall compare the constructed secondary containment against the standards set out in Section 2.2.5 of Sector Guidance Note IPPC S5.06 - Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste and CIRIA C736 - Containment Systems for the Prevention of Pollution - secondary, tertiary and other measures for industrial and commercial	09/02/16

Reference	Requirement	Date
	premises or other relevant industry standard.	
	The review shall include:	
	- physical condition of the secondary containment;	
	- the suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure;	
	- any work required to ensure compliance with the standards set out in CIRIA C736 or other relevant industry standard; and	
	- a preventative maintenance and inspection regime	
	A written report of the review shall be submitted to the Environment Agency detailing the review's findings and recommendations. Remedial action shall be taken to ensure that the secondary containment meets the standards set out in the technical guidance documents and implement the maintenance and inspection regime.	
	The operator shall implement the remedial measures and recommendations as approved, and from the date stipulated by the Environment Agency.	

Reference	Operation	es for future development Pre-operational measures
POM 1	Use of new CHP 3 engine.	At least 2 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the new CHP, the operator shall submit a revised odour management plan to the Environment Agency for written approval. The plan shall take into account the appropriate measures for odour control specified in section 2.2.6 of Sector Guidance Note IPPC S5.06 - Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste. The plan shallso include all the required information as specified in the Environment Agency Horizontal Guidance H4 - Odour Management.
		No operations of the new CHP engine shall commence unless the Environment Agency has given prior written permission under this condition.
POM 2		At least 8 weeks (or any other date as agreed with the Environment Agency) prior to the commencement of commissioning of the new CHP engine, the operator shall provide a written commissioning plan (including timescales for completion for approval by the Environment Agency. The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the measures to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved by the Environment Agency. No operations of the new CHP engine shall commence unless the
		Environment Agency has given prior written permission under this condition.
POM 3		At least 2 weeks (or any other date as agreed with the Environment Agency) prior to commissioning of the new CHP engine, the operator shall submit a written copy of the site

Reference	Operation	Pre-operational measures
		Environmental Management System (EMS) and make available for inspection all documents and procedures which form part of the site EMS.
		The EMS shall cover all activities at the installation and shall be in accordance with the Environment Agency Guidance – How to comply with your Environmental Permit and sections 2.3 and 2.8 or the Sector Guidance Note IPPC S5.06 – Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste. The EMS shall include the techniques the operator relies upon to manage the operation, accidents (including flooding), closure and decommissioning of the site. The documents and procedures set out in the EMS shall form the written management system referenced in condition 1.1.1 (a) of the permit. No operations of the new CHP engine shall commence or waste accepted at the installation unless the Environment Agency has given prior written permission under this condition.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Maize silage	Substantially free of non vegetable matter

Maximum quantity	Annual throughput shall not exceed 75,000 tonnes				
Waste code	Description				
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing				
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing				
02 01 01	sludges from washing and cleaning - food processing waste, food washing waste				
02 01 02	animal-tissue waste including blood, animal flesh, fish processing waste, fish carcasses, poultry waste				
02 01 03	plant-tissue waste including husks, cereal dust, waste animal feeds, off-cuts from vegetable and fruit and other vegetation waste				
02 01 06	animal faeces, urine and manure including spoiled straw				
02 01 07	wastes from forestry				
02 01 99	residues from commercial mushroom cultivation				
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin				
02 02 01	ludges from washing and cleaning, process water, food washing waste				
02 02 02	animal-tissue waste including blood, animal flesh, fish processing waste, fish carcasses, poultry waste				
02 02 03	materials unsuitable for consumption or processing				
02 02 04	sludges from on-site effluent treatment				
02 02 99	ludges from gelatine production, animal gut contents				
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation				
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation				
02 03 04	materials unsuitable for consumption or processing				
02 03 05	sludges from on-site effluent treatment				
02 03 99	sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only				
02 04	wastes from sugar processing				
02 04 03	sludges from on-site effluent treatment				
02 04 99	other wastes				
02 05	wastes from the dairy products industry				
02 05 01	materials unsuitable for consumption or processing including solid and liquid dairy				

Maximum quantity	Annual throughput shall not exceed 75,000 tonnes			
Waste code	Description			
	products, milk, food processing wastes, yoghurt, whey			
02 05 02	sludges from on-site effluent treatment			
02 06	wastes from the baking and confectionery industry			
02 06 01	materials unsuitable for consumption or processing including condemned food, food processing wastes, biscuits, chocolate, yeast, bread, bakery wastes			
02 06 03	sludges from on-site effluent treatment			
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)			
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials including brewing waste, food processing waste, fermentation waste			
02 07 02	wastes from spirits distillation including spent grains, fruit and potato pulp, sludge from distilleries			
02 07 04	materials unsuitable for consumption or processing including brewing waste, food processing waste, fermentation waste, beer, alcoholic drinks, fruit juice			
02 07 05	sludges from on-site effluent treatment			
02 07 99	spent grains, hops and whisky filter sheets/cloths, yeast and yeast-like residues sludge from production process			
03	Wastes from wood processing and the production of panels and furniture, oulp, paper and cardboard			
03 01	wastes from wood processing and the production of panels and furniture			
03 01 01	waste bark and cork – untreated only			
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04 – untreated wood only			
03 03	wastes from pulp, paper and cardboard production and processing			
03 03 02	green liquor sludge			
03 03 08	paper and cardboard – not allowed if any non-biodegradable coating or preserving substance is present			
03 03 10	fibre rejects and sludges i.e. paper pulp (de-inked only), paper fibre			
04	Wastes from the leather, fur and textile industries			
04 01	wastes from the leather and fur industry			
04 01 01	fleshings and lime split wastes			
04 01 05	tanning liquor free of chromium			
04 01 07	sludges not containing chromium			
04 02	wastes from the textile industry			
04 02 10	organic matter from natural products, e.g. grease, wax			
07	Wastes from organic chemical processes			
07 02	wastes from the manufacture, formulation, supply and use (MFSU) of plastics synthetic rubber and man-made fibers			
07 02 13	waste plastic - must conform to BS EN 13432 – biodegradable only			
07 01	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals			

Maximum quantity	ed waste types and quantities for anaerobic digestion Annual throughput shall not exceed 75,000 tonnes				
Waste code	Description				
07 01 08*	glycerol waste from bio-diesel manufacture from non-waste vegetable oils only				
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified				
15 01	packaging (including separately collected municipal packaging waste)				
15 01 01	paper and cardboard packaging – not allowed if any non biodegradable coating or preserving substance is present				
15 01 02	biodegradable plastic packaging – must be independently certified to BS EN 13432				
15 01 03	Untreated wooden packaging – not allowed if any non biodegradable coating or preserving substance is present				
15 01 05	composite packaging – must conform to BS EN 13432 and not allowed if any non biodegradable coating or preserving substance is present				
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use				
19 02	wastes from physico/chemical treatments of waste (including dechromatation decyanidation, neutralisation)				
19 02 10	glycerol not designated as hazardous i.e. excludes EWC code 19 02 08				
19 05	astes from aerobic treatment of solid wastes				
19 05 01	non-composted fraction of municipal and similar wastes – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type				
19 05 02	non-composted fraction of animal and vegetable waste – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type				
9 05 03	off-specification compost – acceptable only if derived solely from input types allowed by the AD Quality Protocol and remains segregated from, and uncontaminated by, any other waste type				
9 06	wastes from anaerobic treatment of waste				
9 06 03	liquor from anaerobic treatment of municipal waste (from a process that treats wastes which are listed in this table only)				
9 06 04	digestate from anaerobic treatment of source segregated biodegradable waste (from a process that treats wastes which are listed in this table only)				
9 06 05	liquor from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table only)				
9 06 06	digestate from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table only)				
9 08	wastes from waste water treatment plants not otherwise specified				
9 08 09	grease and oil mixture containing edible oils and fats				
	sludges from industrial biological treatment				
	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions				
	separately collected fractions (except 15 01)				
01 01	paper and cardboard – not allowed if any non biodegradable coating or preserving substance is present. Excludes laminates such as Tetrapaks.				

Table S2.2 Permitte	d waste types and quantities for anaerobic digestion				
Maximum quantity	Annual throughput shall not exceed 75,000 tonnes Description kitchen and canteen waste				
Waste code					
20 01 08					
20 01 25	edible oil and fat				
20 01 38	untreated wood where no non biodegradable coating or preserving substance is present				
20 02	garden and park wastes (including cemetery waste)				
20 02 01 biodegradable waste – animal faeces, manure, garden waste, green wast horticultural waste, plant tissue, parks and garden waste, hedge and tree grass cuttings and leafy materials					
20 03	other municipal wastes				
20 03 01	mixed municipal waste – separately collected biowastes				
20 03 02	waste from markets – allowed only if source segregated biodegradable fractions e.g plant material, fruit and vegetables				

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 on site plan GHA-12-27	CHP engine 1 and 2 stack	Oxides of Nitrogen	500 mg/m ³	Hourly average	Annual	BS EN 14792
dated 08/03/13.		(NO and NO ₂ expressed as NO ₂)				
		Sulphur dioxide	350 mg/m ³			BS EN 14791
		Carbon monoxide	1400 mg/m ³			BS EN 15058
		Total VOCs	1000 mg/m ³			BS EN 12619:2013
A2 on site plan GHA-12-27 dated 08/03/13.	CHP engine 3 stack [note 1]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly average	Annual	BS EN 14792
		Sulphur dioxide	350 mg/m ³			BS EN 14791
		Carbon monoxide	1400 mg/m ³			BS EN 15058
		Total VOCs	1000 mg/m ³			BS EN 12619:2013
A3 ['Flare Stack' on site plan in Schedule 7]	Emergency flare stack [note 2]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	150 mg/m ³	Hourly average	[note 3]	BS EN 14792
11		Carbon monoxide	50 mg/m ³			BS EN 15058
		Total VOCs	10 mg/m ³			BS EN 12619:2013
A4	Auxiliary boiler stack	No parameter set	No limit set			
Pressure relief valves	Digesters/Digestate storage tanks	No parameter set	No limit set		Record of operating hours	-

Note 1 - These limits are based on normal operating conditions and load - temperature 0°C (273K); pressure: 101.3 kPa and oxygen: 5 per cent (dry gas). The measurement uncertainty specified in LFTGN08 v2 2010 shall apply.

Note 2 - These limits are based on normal operating conditions and load - temperature 0°C (273K);

Table S3.1 Po	oint source emiss	sions to air – emis	sion limits an	nd monitoring	requirement	s
Emission point ref. & location	Source	Parameter	Limit (including unit)	The second secon	Monitoring frequency	Monitoring standard or method

pressure: 101.3 kPa and oxygen: 3 per cent (dry gas). The measurement uncertainty specified in LFTGN05 v2 2010 shall apply.

Note 3 - Monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours). Record of operating hours to be submitted annually to the Environment Agency.

Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements					ilito alla	
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan GHA–12– 27 dated 08/03/13 to River Worfe	Uncontaminated site surface water from roofs and non operational areas	No parameter set	No limit set		Weekly	Visual assessment – no visible oil or grease

Emission point reference or source or description of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Biogas from Digesters	Flow	Continuous	In accordance with EU weights and measures Regulations	
Biogas from Digesters	Methane	Continuous	None specified	Gas monitors to be calibrated every 6 months or in accordance with the manufacturer's recommendations.
	Hydrogen sulphide	Continuous	None specified	
Waste reception building; Digesters and storage tanks	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.
Digesters and storage tanks	Integrity checks	Weekly	Visual assessment	
Scrubber / Carbon filtration system	Key process parameters to include pH, temperature and	In accordance with manufacturer's recommendations.	None specified	Odour abatement system shall be regularly checked and maintained to ensure appropriate temperature and

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	air flow			moisture content.
				Carbon filter(s) to be replaced when saturated in accordance with manufacturer's recommendations.

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	
Emissions to air	A1, A2 and A3	Every 12 months	1 January,	
Parameters as required by condition 3.5.1.				

Table S4.2 Annual production/treatment	
Parameter	Units
Electricity generated	MWh
Whole digestate	tonnes
Liquid digestate	tonnes or m ³
Solid digestate	tonnes

Table S4.3 Performance param	eters	
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes or m ³
Energy usage	Annually	MWh
Raw material usage	Annually	tonnes or m ³
Emergency flare operation	Annually	hours
Electricity exported	Annually	MWh
CHP engine usage	Annually	hours
CHP engine efficiency	Annually	%
Auxiliary boiler usage	Annually	hours

Table S4.4 Reporting f	orms	Wester Strategies of Table Company and Newsons
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	09/11/15
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	09/11/15
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	09/11/15
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	09/11/15
Waste returns	E-waste Return Form	-

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

D WN I	T
Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	
(a) Notification requirements for a accident, or emission of a substa causing or may cause significant	any malfunction, breakdown or failure of equipment or techniques, ance not controlled by an emission limit which has caused, is 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 t	the breach of a limit
To be notified within 24 hours of	detection unless otherwise specified below
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be	

Parameter	Notification period
The state of the s	

(c) Notification requirements for th	e detection of any significant adverse environmental effect
To be notified within 24 hours of d	Water the state of
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

Marian Control Marian Control	
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.	
APPECUAÇÃO CAMPONITARIO SPORTO DE COMPOSITO	

Name*	
Post	
Signature	
Date	

^{*} authorised to sign on behalf of the operator

Schedule 6 – Interpretation

"accident" means an accident that may result in pollution.

"ADQP" means Anaerobic Digestion Quality Protocol

"anaerobic digestion" means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobes and facultative anaerobe bacteria species, which convert the inputs to a methanerich biogas and whole digestate.

"animal waste" means any waste consisting of animal matter that has not been processed into food for human consumption.

"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.

"digestate" means material resulting from an anaerobic digestion process.

"disposal". Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"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.

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No. 675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"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.

"impermeable surface" means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

"Industrial Emissions Directive" means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

"Industry Standard Protocol" means "A standardised protocol for the monitoring of bioaerosols at open composting facilities" published by the Association for Organics Recycling and developed in conjunction with the Environment Agency.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"pests" means Birds, Vermin and Insects.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"recovery" means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"sealed drainage system" in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged to foul sewer.

"treated wood" means any wood that has been chemically treated (e.g. to enhance or alter the performance of the original wood). Treatments may include penetrating oils, tar oil preservatives, water-borne preservatives, organic-based preservatives, boron and organo-metallic based preservatives, boron and halogenated flame retardants and surface treatments (including paint and veneer).

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes (England)Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, 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.

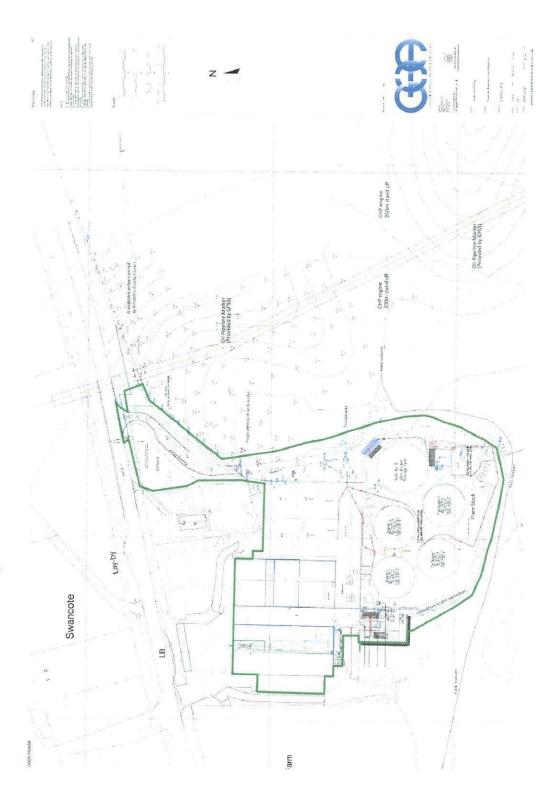
"year" means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid fuels, 3% or 5% for gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 – Site plan



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Permit number EPR/TP3692EU

Permit Number:

EPR/TU3692EU

Operator:

Swancote Energy Limited Air 1 / 10/11/15

Facility:

Swanscote Farm

Form Number:

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYYY

Emission	Substance /	Emission	Reference Period	Result [1]	Tact	Cample	I Incombatoria
Point	Parameter	Limit Value		Ξ	Method [2]	Date and Times [3]	Olicertallity [4]
Ą	Oxides of nitrogen (NO and NO2 expressed as NO2)	500 mg/m3	1 hour period		BS EN 14792		0.00
A1	Sulphur dioxide	350 mg/m3	1 hour period		BS EN 14791		
4	Carbon monoxide	1400 mg/m3	1 hour period		BS EN 15058		
P4	Total VOCs	1000 mg/m3	1 hour period		BS EN 12619:2013		
A 2	Oxides of nitrogen (NO and NO2 expressed as NO2)	500 mg/m3	1 hour period		BS EN 14792		
A2	Sulphur dioxide	350 mg/m3	1 hour period		BS EN 14791		
A2	Carbon monoxide	1400 mg/m3	1 hour period		BS EN 15058		
A2	Total VOCs	1000 mg/m3	1 hour period		BS EN 12619:2013		
A3	Oxides of nitrogen (NO and NO2 expressed as NO2)	150 mg/m3	1 hour period		BS EN 14792		
A3	Carbon monoxide	50 mg/m3	1 hour period		BS EN 15058		
					a Marian Committee and a committee of the committee of th		

Permit number EPR/TP3692EU

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Un	Uncertainty
A3	Total VOCs	10 mg/m3	1 hour period		BS EN 12619:2013		

expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, measured values. [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Date	
Signed	

(Authorised to sign as representative of Operator)

Operator:	Form Number:
EPR/TU3692EU	Swanscote Farm
Permit Number:	Facility:

Swancote Energy Limited Water usage 1/ 10/11/15

Reporting of Water Usage for the year

Water Source	Usage (m3/year)	Specific Usage (m3/unit output)	
Mains water			
Site borehole			
River abstraction			
TOTAL WATER USAGE			

Operator's comments:			

Signed

Date.....

(authorised to sign as representative of Operator)

Permit number EPR/TP3692EU

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Operator:

Swancote Energy Limited Energy1/ 10/11/15

Facility:

Swanscote Farm

Form Number:

Reporting of Energy Usage for the year

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
Biogas	tonnes		
TOTAL	1		

^{*} Conversion factor for delivered electricity to primary energy = 2.4

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Date Signed

(Authorised to sign as representative of Operator)

Permit number EPR/TP3692EU

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t Number:
Permit

Operator:

Swancote Energy Limited

Facility:

Swanscote Farm

Form Number:

Performance1/ 10/11/15

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYYY

Parameter	Units
Total raw material used	tonnes
CHP engine usage	hours
CHP engine efficiency	%
Auxiliary boiler usage	hours
Emergency flare operation	hours
Electricity exported	MWh

Operator's comments:

Date..... Signed

(Authorised to sign as representative of Operator)