

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Cramlington Wood Energy Partnership
Limited

Cramlington Biomass CHP Plant
Windmill Industrial Estate
Cramlington
Northumberland
NE23 3JL

Permit number
EPR/RP3035EE

Cramlington Biomass CHP Plant

Permit number EPR/RP3035EE

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Cramlington Biomass CHP is located in a Nitrate Vulnerable Zone on the Windmill Industrial Estate at grid reference NZ 24382 78344. It is surrounded on three sides by industrial units. On the south side of the site lies the East Coast Mainline railway. Further south, beyond the railway line, is the Shotton Surface Mine.

The Combined Heat and Power (CHP) Biomass plant will burn virgin biomass in the form of round logs, brash or pre-chipped fuel. The facility has a designed net thermal input of 75MW, which equates to a throughput of 244,000 tonnes of virgin biomass per year.

Logs will be delivered to a fuel storage area on-site. Brash and pre-chipped wood will be delivered into a fuel storage building.

Combustion of biomass takes place on a single water cooled vibrating grate system. Biomass will be fed via a feed hopper to the fuel feed system. Feed rams will deliver the fuel to the grate and spreaders will ensure fuel is evenly distributed. Exhaust gases generated from combustion of the fuel pass into the CHP boiler sections where heat is transferred from the hot gases to generate steam.

Saturated steam is generated within the boiler evaporator sections as well as within the water tube walls of the secondary combustion chamber. This steam will be further heated within the superheater. The subsequent high pressure, high temperature steam from the boiler will be fed to the steam turbine generator. In addition to generating electricity for the National Grid the plant has also been designed to provide steam for nearby industrial premises.

The design includes provision for a Selective Non Catalytic Reduction (SNCR) system to control nitrogen oxide releases. SNCR entails the injection of ammonia solution into the combustion chamber which reacts with nitrogen oxide to produce nitrogen and water. The ammonia solution used in this process will be stored in accordance with the Environmental Management System.

Boiler blowdown waters and effluent from the demineralisation plant are re-used for ash quenching and boiler cleaning. Only water which cannot be re-used is discharged to the water treatment plant.

Rain water is harvested for cleaning purposes. Process waste water is treated and discharged to foul sewer. Roof and surface water, which is surplus to process use, is discharged to surface water sewer.

The installation shall produce approximately 7,900 tonnes of bottom ash generated from the grate and 660 tonnes fly ash captured in the bag filter. It is intended that both wastes will be sent for off-site use as a fertilizer.

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

Status log of the permit		
Description	Date	Comments
Application EPR/RP3035EE/A001	Duly made 25/06/14	Application for a combustion facility with a net thermal input > 50MW.
Additional information received	11/07/14	Annotated site layout plan
Additional information received	25/07/14	Revised installation boundary showing location of the boiler stack and further details regarding operations undertaken on the site.
Additional information received	01/08/14	Further information regarding choice of background noise levels and reasoning for not using tonal correction factor.
Additional information received	05/08/14	Further details of BAT assessment 1 of 2
Additional information received	15/08/14	Further details of BAT assessment 2 of 2
Additional information received	17/10/14	Further information on emissions to sewer
Permit determined	06/11/2014	Permit issued to Cramlington Wood Energy Partnership Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/RP3035EE

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Cramlington Wood Energy Partnership Limited (“the operator”),
whose registered office is

One Glass Wharf
Bristol
BS2 0ZX

company registration number 08206854
to operate an installation at

Cramlington Biomass CHP Plant
Windmill Industrial Estate
Cramlington
Northumberland
NE23 3JL

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

Name	Date
Claire Roberts	06/11/2014

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, including those 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 it kept at or near the place where those duties are carried out.

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:

- (a) 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”).

2.2 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 (a) 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.

(b) 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.

2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.3 The following conditions apply where there is a malfunction or breakdown of any abatement equipment:

2.3.3.1 The Operator shall notify the Environment Agency within 48 hours of any such malfunction or breakdown unless notification has already been made under condition 4.3.1.

2.3.3.2 Unless otherwise agreed in writing by the Environment Agency:

(a) if a return to normal operations is not achieved within 24 hours, the operator shall reduce or close down operations, or shall operate the activities using low polluting fuels; and

(b) the cumulative duration of unabated operation in any 12-month period shall not exceed 120 hours.

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 activities shall not be brought into operation 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 Monitoring

- 3.3.1 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.
- 3.3.2 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.

- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.3.4 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.

3.4 Odour

- 3.4.1 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.
- 3.4.2 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.

3.5 Noise and vibration

- 3.5.1 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.
- 3.5.2 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.

3.6 Monitoring for the purposes of the Industrial Emissions Directive Chapter III

- 3.6.1 All monitoring required by this permit shall be carried out in accordance with the provisions of Annex V of the Industrial Emissions Directive.

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;
 - (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 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.

4.3 Notifications

- 4.3.1 (a) 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) in the event 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) in the event 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:
- (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:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) 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.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:
- (a) a decision by the Secretary of State not to re-certify the agreement;
 - (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
 - (c) any subsequent decision by the Secretary of State to re-certify such an agreement.
- 4.3.8 The operator shall inform the Environment Agency in writing of the closure of any LCP within 28 days of the date of closure.

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 “without delay”, 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
S1.1 A(1) (a): Burning of any fuel in an appliance with a rated thermal input of 50 megawatts or more.	Combined heat and power (CHP) production of steam and electricity in an appliance with a net thermal input of 75 megawatts.	From receipt of raw materials to despatch of electricity and heat and disposal of waste.
Directly Associated Activity		
Chipping of round logs and brash	Use of a chipper to re-size round logs and brash to sizes appropriate for combustion.	
Waste water treatment plant	pH adjustment and settlement of waste process waters prior to discharge to the sewer.	

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	Responses to Parts B2 and B3 of the application form and referenced supporting documentation.	28/05/14
Additional information	Annotated site layout plant.	11/07/14
Response to request for additional information dated 22/07/14	Revised installation boundary showing location of the stack from the boiler and further details regarding operations undertaken on the site.	25/07/14
Response to request for additional information dated 31/07/14	Further information regarding choice of background noise levels and reasoning for not using tonal correction factor.	01/08/14
Response to request for additional information dated 04/08/14	Further details of BAT assessment 1 of 2	05/08/14
Response to request for additional information dated 04/08/14	Further details of BAT assessment 2 of 2	15/08/14
Additional information requested 15/08/14	Details of effluent discharges to the sewer.	17/10/14

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	<p>Following the commissioning of the plant, the Operator shall submit to the Environment Agency for approval a noise assessment detailing the impacts of noise from the installation. This shall be based on measured noise emissions representative of normal operations. Where appropriate the plan shall contain proposals and timescales for the implementation of remedial measures.</p> <p>The plan shall be implemented by the Operator from the date of approval in writing by the Environment Agency subject to any such amendments or additions as notified by the Environment Agency.</p>	3 months from the date of commissioning
IC2	<p>Following commissioning of the plant, the Operator shall submit to the Environment Agency a report detailing the outcome of the commissioning programme. The report shall include the following:</p> <ul style="list-style-type: none"> • reporting of the emission values from the stack measured during the commissioning phase that are representative of normal operations; • verification of the noise assessment; • confirmation of the efficiency data provided in the application and supporting information; and • identification of any changes to the operating techniques provided in the application. 	6 months from the date of commissioning

Table S1.4 Pre-operational measures

Reference	Pre-operational measures
1	<p>At least 4 weeks (or such other date as agreed in writing by the Environment Agency) before any fuel is burnt in the installation, a written commissioning plan shall be submitted to the Environment Agency. The plan shall include written procedures containing actions to be taken to ensure that appropriate measures will be used to minimise releases under all anticipated operating conditions.</p> <p>The written commissioning plan shall be submitted to the Environment Agency for assessment.</p>
2	<p>At least 4 weeks (or such other date as agreed in writing by the Agency) before any fuel is burnt at the installation, the Operator shall provide confirmation to the Environment Agency that a written Environment Management System (EMS) has been produced, which shall be available for inspection.</p> <p>The EMS shall:</p> <ul style="list-style-type: none"> • demonstrate that the necessary procedures are in place for the operation of CHP. • demonstrate that staff have received the necessary training. • provide the procedures for the closure and decommissioning of the site.
3	<p>At least 4 weeks (or such other date as agreed in writing by the Environment Agency) before any fuel is burnt at the installation, a written Accident Management Plan shall be submitted to the Environment Agency. The system shall include, but not be limited to, full details of how the risk of fire will be managed at the site. This shall be in accordance with the advice of Northumberland Fire and Rescue Service contained within their letter of 22/07/14 and takes into consideration the close proximity to a High Voltage Transmission Overhead Line.</p>
4	<p>At least 4 weeks (or such other date as agreed in writing by the Environment Agency) before any fuel is burnt at the installation, the operator shall submit a copy of the discharge consent from the sewerage undertaker (Northumbrian Water) for release to foul sewer from the permitted installation.</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	Biomass logs, brash and chips derived from virgin timber
Light fuel oil	Less than 1.0% w/w sulphur content

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air from Biomass Boiler

Emission point ref. & location	Parameter	Source	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan in Schedule 7]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Steam turbine fired on biomass	250mg/m ³	Periodic over minimum 1- hour period	Periodic (Every 3 months in the first year, then every 6 months)	BS EN-14792
A1 [Point A1 on site plan in Schedule 7]	Sulphur dioxide (SO ₂)	Steam turbine fired on biomass	100mg/m ³	Periodic over minimum 1- hour period	Periodic (Every 3 months in the first year, then every 6 months)	BS EN-14791
A1 [Point A1 on site plan in Schedule 7]	Particulate matter	Steam turbine fired on biomass	20mg/m ³	Periodic over minimum 1- hour period	Periodic (Every 3 months in the first year, then every 6 months)	BS EN-13284
A1 [Point A1 on site plan in Schedule 7]	Ammonia	Steam turbine fired on biomass	-	Periodic over minimum 1- hour period	Periodic (Every 3 months in the first year, then every 6 months)	Procedural requirements of BS EN 14791

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on site plan in application EPR/RP3035EE/ A001. Emission to Foul water sewer via manhole 4605	No parameter set	Site effluent treatment plant	No limit set	-	-	-
S2 on site plan in application EPR/RP3035EE/ A001. Emission to surface water sewer via manhole 4608	No parameter set	Uncontaminated roof and surface water	No limit set	-	-	-

Schedule 4 – Reporting

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air as required under condition 3.3.1	A1	Every 3 months in the first year of operation following commissioning, then every 6 months	06/11/2014

Table S4.2: Annual production/treatment

Parameter	Units
Electricity energy output	MW Hrs (net)
Heat energy output	MWh

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage (input)	Annually	Tonne/MWh output
Waste water to sewer (output)	Annually	M ³
Waste disposal and/or recovery	Annually	Tonnes
Virgin timber used	Annually	Tonne/MWh output (net)

Table S4.4 Reporting forms

Media/parameter	Reporting format	Starting Point	Date of form
Air	Form Air 1 or other form as agreed in writing by the Environment Agency	Upon commencement of burning of fuel	06/11/2014
Water usage	Form Water Usage 1 or other form as agreed in writing by the Environment Agency	Upon commencement of burning of fuel	06/11/2014
Energy production	Form Energy 1 or other form as agreed in writing by the Environment Agency	Upon commencement of burning of fuel	06/11/2014
Waste disposal and recovery	Form Waste 1 or other form as agreed in writing by the Environment Agency	Upon commencement of burning of fuel	06/11/2014
Other performance indicators	Form Performance 1 or other form as agreed in writing by the Environment Agency	Upon commencement of burning of fuel	06/11/2014

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 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 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 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.

“*biomass*” means:

- a) vegetable matter from agriculture and forestry;
- b) vegetable waste from the food processing industry, if the heat generated is recovered;
- c) fibrous vegetable waste from virgin pulp production and from production of paper from pulp, if it is co-incinerated at the place of production and the heat generated is recovered;
- d) cork waste;
- e) wood waste with the exception of wood waste which may contain halogenated organic compounds or heavy metals as a result of treatment with wood preservatives or coating, and which includes in particular such wood waste originating from construction and demolition waste.

“*calendar monthly mean*” means the value across a calendar month of all validated hourly means.

“*CEN*” means Comité Européen de Normalisation

“*Combustion Technical Guidance Note*” means IPPC Sector Guidance Note Combustion Activities, version 2.03 dated 27th July 2005 published by Environment Agency.

“*DLN*” means dry, low NO_x burners.

“*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.

“*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 or background concentration limit..

“*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.

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

“*large combustion plant*” or “*LCP*” is a combustion plant or group of combustion plants discharging waste gases through a common windshield or stack, where the total thermal input is 50 MW_{th} or more, based on gross calorific value.

“Large Combustion Plant Directive” means Directive 2001/80/EC of the European Parliament and of the Council of 23 October 2001 on the limitation of emissions of certain pollutants into the air from large combustion plants.

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

“mcr” means maximum continuous rating.

“National Emission Reduction Plan” (NERP) is the plan issued by Defra in accordance with Article 4.6 of the Large Combustion Plants Directive and associated guidance.

“Natural gas” means naturally occurring methane with no more than 20% by volume of inert or other constituents.

“NERP Register” means the register maintained by the Environment Agency in accordance with regulation 6(1) of the Large Combustion Plants (National Emission Reduction Plan) Regulations 2007.

“ncv” means net calorific value.

“operational hours” are whole hours commencing from the first unit ending start up and ending when the last unit commences shut down.

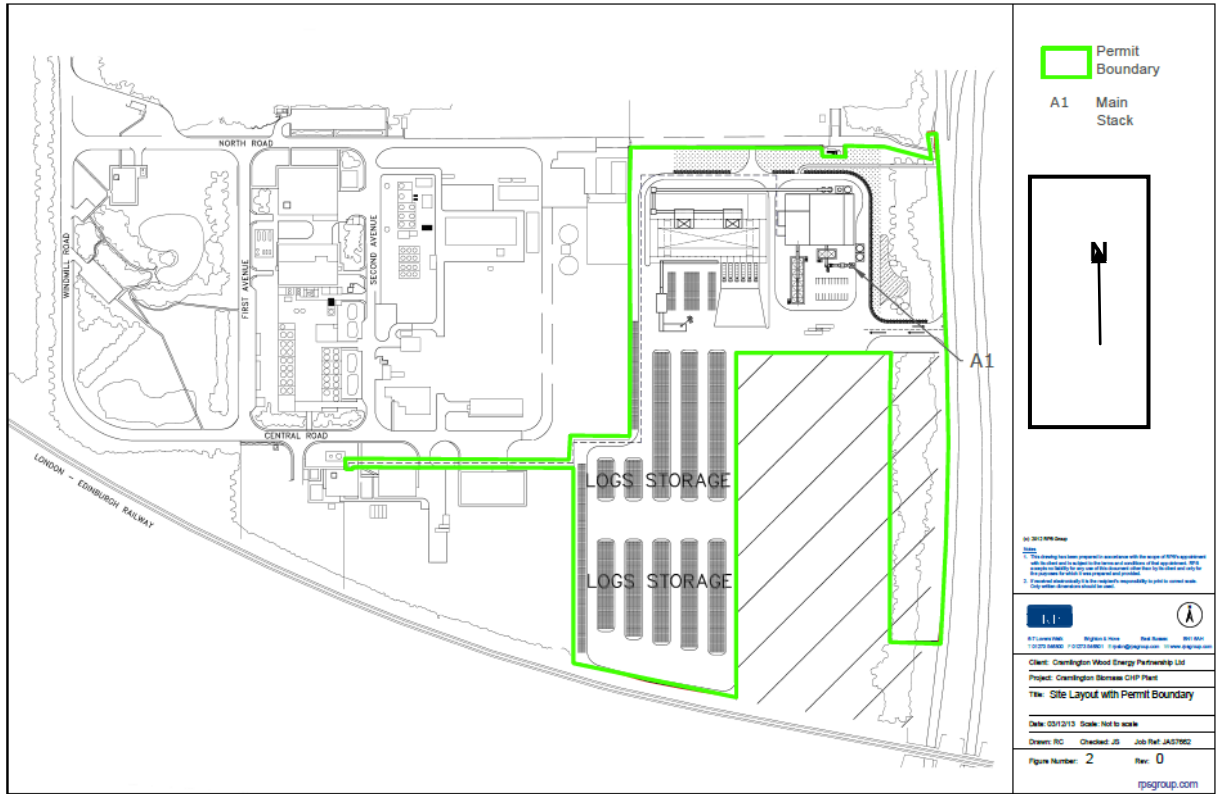
“SI” means site inspector

“year” means calendar year ending 31 December.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means 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 and gaseous fuels, 6% dry for solid fuels

Schedule 7 - Site plan

Installation Boundary



END OF PERMIT

Permit Number: EPR/RP3035EE

Operator: Cramlington Wood Energy Partnership Limited

Facility: Cramlington Biomass CHP Plant

Form Number: Air1 / 06/11/2014

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

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/m ³	Periodic (Every 3 months in the first year, then every 6 months)		BS EN 14792		
A1	Sulphur dioxide	100 mg/m ³	Periodic (Every 3 months in the first year, then every 6 months)		BS EN 14791		
A1	Particulate matter	20 mg/m ³	Periodic (Every 3 months in the first year, then every 6 months)		BS EN 13284		

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, 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' measured values.

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.

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.

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

Signed
(Authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/RP3035EE

Operator: Cramlington Wood Energy Partnership Limited

Facility: Cramlington Biomass CHP Plant

Form Number: WaterUsage1 / 06/11/2014

Reporting of Water Usage for the year YYYY

Water Source	Usage (m ³ /year)	Specific Usage (Tonne/MWh output)
Mains water		
Harvested water		
TOTAL WATER USAGE		

Operator's comments :

Signed
(authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/RP3035EE

Operator: Cramlington Wood Energy Partnership Limited

Facility: Cramlington Biomass CHP Plant

Form Number: Energy1 / 06/11/2014

Reporting of Energy Production for the year YYYY

Energy Source	Energy Usage		Specific Usage (MWh and Tonne/MWh output (net))
	Quantity	Primary Energy (MWh)	
Electricity*	MWh (net)		
Heat Energy Output	MWh		
Virgin timber	Tonne/MWh output (net)		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :

Signed
(Authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/RP3035EE

Operator: Cramlington Wood Energy Partnership Limited

Facility: Cramlington Biomass CHP Plant

Form Number: waste 1 06/11/2014

Reporting of Waste Disposal and Recovery for the year YYYY

Waste Description	Disposal Route	Tonnes	Recovery Tonnes
1) Hazardous Wastes*			
2) Non-Hazardous Wastes*			
TOTAL WASTE	-		

* Identify wastes in rows below by significant groups or disposal/recovery route

Operator's comments :

Signed
(Authorised to sign as representative of Operator)

Date.....

Permit Number: EPR/RP3035EE

Operator: Cramlington Wood Energy Partnership Limited

Facility: Cramlington Biomass CHP Plant

Form Number: Performance1 / 06/11/2014

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

Parameter	Units
Total discharge volume to the sewer S1	M ³

Operator's comments :

Signed
(Authorised to sign as representative of Operator)

Date.....