

<b><i>Rathlin Energy</i></b>	Applies To: Rathlin Energy	RE-05-EPRA-CH-FO-002
Prepared By: Jonathan Foster	Uncontrolled, If Printed	Rev: 1.00

EMS SUPPORTING DOCUMENTATION - EPRA – CRAWBERRY HILL EXPLORATORY OPERATIONS – APPLICATION FORM

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# Crawberry Hill Wellsite B9 Application Form Exploratory Operations

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Rev:	Prepared By:	Checked By:	Approved By:	Issued:
1.00	Jonathan Foster	Tom Selkirk	D Montagu-Smith	16/01/2014

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**EMS SUPPORTING DOCUMENTATION - EPRA – CRAWBERRY HILL EXPLORATORY OPERATIONS – APPLICATION  
FORM**

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# Application for an environmental permit

## Part B9– Permit for onshore oil and gas exploratory operations



Fill in this if you are applying for a new bespoke permit for oil and/or gas exploratory works only.

Please note we cannot issue your permit for a relevant mining waste facility until you have an appropriate planning consent. Please look at the guidance for this part for more information.

Please read through this form and any guidance notes that came with it. Please write clearly. Please write clearly in the answer spaces.

It will take less than three hours to fill in this part of the application form.

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## 1 Discussions before your application

If you have had discussions with us before your application, give us the reference number or details on a separate sheet.

Tell us below the reference number you have given this extra sheet.

Reference EPR/BB3000KC/A001

## 2 About you (Applications from companies or corporate bodies)

2.1 Name of the company Rathlin Energy (UK) Limited

2.2 Company registration number 06478035

If you are applying as a corporate organisation that is not a limited company, please provide evidence of your status and tell us below the reference number you have given the document containing this evidence.

Document reference Not Applicable

## Your address

### 2.3 Your main (registered office) address

For companies this is the address on record at Companies House.

Contact name

Title (Mr, Mrs, Miss and so on) Mr

First name David

Last name Montagu-Smith

Address Rathlin Energy (UK) Limited

20 – 22 Bedford Row  
London  
Postcode WC1R 4JS  
  
Contact numbers (including the area code)  
Phone 020 7268 9861  
Mobile \_\_\_\_\_  
Fax \_\_\_\_\_  
Email davidms@rathlinenergy.co.uk

**2.4 Main UK business address (if different from above)**

Contact name  
Title (Mr, Mrs, Miss and so on) Mr  
First name Tom  
Last name Selkirk  
Address Rathlin Energy (UK) Limited  
8 Wimpole Street  
London  
Postcode W1G 9SP  
  
Contact numbers (including the area code)  
Phone 020 7268 9861  
Mobile 07553 110607  
Fax \_\_\_\_\_  
Email toms@rathlinenergy.co.uk

**Contact details**

**2.5 Who can we contact about your application?**

This can be someone acting as a consultant or an 'agent' for you.

Title (Mr, Mrs, Miss and so on) Mr  
First name Jonathan  
Last name Foster  
Position HSE & Planning Manager  
Address Petroleum Safety Services Limited  
The Innovation Centre  
Vienna Court, Kirkleatham Business Park  
Postcode TS10 5SH

Contact numbers (including the area code)

Phone 01642 777804  
Mobile 07738 857555  
Fax \_\_\_\_\_  
Email jfoster@petroleumsafetyervices.co.uk

**2.6 Who can we contact about your operation (if different from 2.5)?**

Same as 2.5

Contact name

Title (Mr, Mrs, Miss and so on) \_\_\_\_\_

First name \_\_\_\_\_

Last name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Contact numbers (including the area code)

Phone \_\_\_\_\_  
Mobile \_\_\_\_\_  
Fax \_\_\_\_\_  
Email \_\_\_\_\_

**2.7 Who can we contact about your billing or invoice?**

Same as in question 2.5

Same as in question 2.6

Please give details below if different from 2.5 or 2.6.

Contact name

Title (Mr, Mrs, Miss and so on) Ms

First name Wendy

Last name Duckett

Address Rathlin Energy (UK) Limited  
8 Wimpole Street  
London

Postcode W1G 9SP

Contact numbers (including the area code)

Phone 020 7269 9861  
Mobile \_\_\_\_\_

Fax \_\_\_\_\_  
Email wendyd@rathlin-energy.co.uk

### 3 Your ability as an operator

#### 3.1 Relevant offences (mining waste only)

Have you, or any other relevant person, been convicted of any relevant offence?

No  Now go to **question 3.2**  
Yes  Please give details below.

Name of the relevant person \_\_\_\_\_

Title \_\_\_\_\_

First name \_\_\_\_\_

Last name \_\_\_\_\_

Date of birth (DD/MM/YY) \_\_\_\_\_

Position at the time of the offence \_\_\_\_\_

Name of the court where the case was dealt with \_\_\_\_\_

Date of the conviction (DD/MM/YYYY) \_\_\_\_\_

Offence and penalty set \_\_\_\_\_

Date any appeal against the conviction will be heard  
(DD/MM/YYYY) \_\_\_\_\_

If necessary, use a separate sheet to give us details of other relevant offences ( and post conviction plans if relevant)and tell us below the reference number you have given the extra sheet.

Document reference of the extra sheet \_\_\_\_\_

#### 3.2 Finances (mining waste only)

Do you or any relevant person have current or past bankruptcy or insolvency proceedings against you?

No   
Yes  Please give details below, including the required set-up costs (including infrastructure), maintenance and clean up costs for the proposed facility against which a credit check may be assessed.

We may want to contact a credit-reference agency for a report about your business's finances.

#### Category A Mining waste facilities and mining waste facilities for hazardous waste only

How do you plan to make financial provision?

Bonds   
Escrow account

Trust fund   
 Lump sum   
 Other

Give the document reference number for the proof you are supplying \_\_\_\_\_

Provide a plan of your estimated expenditure on each phase of the mining waste facility.

Document plan reference \_\_\_\_\_

### 3.3 Management systems (All)

You should have a single management system that covers all the activities regulated under your environmental permit.

You can find guidance on our requirements in relation to RSR in “How to comply with your EPR RSR environmental permit – open sources and receipt, accumulation and disposal of radioactive waste on non-nuclear sites” and for all other activities in ‘How to comply with your environmental permit’.

You should note that the details of what your management system needs to cover, varies from one activity to activity.

Does your management system meet the conditions set out in our guidance?

No   
 Yes

What management system will you provide for your regulated facility?

EC Eco-Management and Audit Scheme (EMAS)   
 ISO 14001   
 BS 8555 (Phases 1-5)   
 Green Dragon   
 Own Management system

Please make sure you send us a summary of your management system with your application.

Document reference (or references) Appendix 2 of Waste Management Plan  
RE-05-EPRA-CH-WMP-005 (RE EMS Ref: RE-02-002)

## 4 About the site

### 4.1 What is the site name, address, postcode and national grid reference?

Site name Crawberry Hill Wellsite  
 Address Rathlin Energy (UK) Limited  
Land Southwest of Crawberry Hill  
Walkington Heads  
Beverley  
 Postcode HU17 8RU

**National grid reference for the site**  
 (for example, ST 12345 67890.) SE 97669 37720

### 4.2 Which of the following are you are applying for? (tick each one that applies)

**4.2.1 Mining waste activity for the disposal of waste from exploratory boreholes (fill in sections 5-8 and 13-15)**

A mining waste operation for management of non-inert non-hazardous extractive waste and hazardous waste (fluids, muds/cuttings and gas), with a mining waste facility for non-hazardous waste(fluid left behind)

**4.2.2 Radioactive substances activity for the disposal of radioactive waste (fill in sections 6-7, 9 and 13-16)**

Tick the relevant boxes to show which radioactive substances activities you are applying for

Dispose of radioactive waste on or from premises used for the purposes of an undertaking

Accumulate radioactive waste on premises used for the purposes of an undertaking

**4.2.3 Groundwater abstraction (fill in sections 6-7, 10 and 13-16)**

**4.2.4 Water discharges into ground (fill in sections 6 -7, 11 and 13-16)**

**4.2.5 Water discharge into surface waters**  
**(Please contact us as we will need further information)**

**4.2.6 Will you be flaring gas at levels greater than 10tonnes/day at any stage of the exploratory works?**

Yes  (fill in sections 6-7, 12 and 13-15)  
No

**5 Planning status (For relevant mining waste facilities only).**

Tick which situation applies to you.

I have planning permission.

I have a certificate of lawful existing use or development.

I have an established use certificate.

The General Permitted Development Order 1995 applies

I do not need planning permission

(please provide proof)

I have applied for planning permission but have not yet had a decision. (You can still apply but we will not issue your permit until you can provide us with proof that you have got the permission you need)

Name of the Planning Authority East Riding of Yorkshire Council

Give us a copy of the relevant planning application or permission that shows that you have, or have applied for, appropriate planning for your proposed permit, including a plan showing the area covered by the planning application or permission

Document reference number of the application or permission RE-05-EPRA-CH-PDN-009  
(ERYC Ref: DC/12/02954/STLF/STRAT)

**6 Consultation**

Could the activities involve releasing any substance into any of the following?

**6a A sewer managed by a sewerage undertaker**  
No



Yes  Please name the sewerage undertaker . \_\_\_\_\_

**6b A harbour managed by a harbour authority**

No

Yes  Please name the harbour authority \_\_\_\_\_

**6c Direct into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee**

No

Yes  Please name the fisheries committee. \_\_\_\_\_

**7 General Supporting information including groundwater protection**

**7.1 Provide a plan or plans for the site**

See the guidance notes for what needs to be marked on the plan.

Document reference or references of the plans RE-05-EPRA-CH-SP-004

**7.2 Provide the relevant sections of a site condition/baseline report if this applies (For mining waste operations and flare stacks flaring over 10 tonnes per day only)**

Document reference of the report RE-05-EPRA-CH-SCR-006

**7.3 Provide a non-technical summary of your application (see the guidance notes)**

Document reference of the summary RE-05-EPRA-CH-NTS-003

**7.4 Existing radioactive contamination**

If you are aware that previous use of radioactive substances on the site has left a legacy of land or groundwater contamination or of orphaned sources, you should provide details of the contamination or radioactive source present.

This is because, when you surrender your permit, you will need to demonstrate that all necessary measures have been taken to return the site to a satisfactory state, having regard to the state of the site before the facility was put into operation.

Document reference of the report No Legacy Left to Our Knowledge

**7.5 Environmental risk assessment including groundwater protection - Mining waste and groundwater activities only.  
(See Onshore oil and gas exploratory operations – technical guidance))**

Provide an assessment of the risks each of your proposed regulated facilities poses to the environment. The risk assessment must use H1 or an equivalent method.

Document reference for the assessment RE-05-EPRA-CH-ERA-007

**8 Mining waste activity additional information**

**8.1 Waste-management plan**

Tick the box to confirm that you have provided a waste management plan  
(See Onshore oil and gas exploratory operations – technical guidance)

**8.2 External emergency plans (for Category A mining waste facilities only)**

Please provide the information we need so the relevant emergency planner can draw up an external emergency plan for the mining waste facility or facilities.

Document reference Not a Category A Mining Waste Facility

**9 Radioactive waste activity additional information.**

**9.1** Enclose your assessment of how you plan to use the 'best available techniques' to reduce the amount of radioactive waste you create and have to dispose of( see Onshore oil and gas exploratory operations – technical guidance)

Document reference Appendix 6 of RE-05-EPRA-CH-WMP-005

**9.2 Accumulation of radioactive waste from open sources**

**9.2.1** How do you plan to accumulate radioactive waste?

The activity on site relates to the exploration for hydrocarbons from the Strawberry Hill 1 wellsite. Specifically, this will involve perforation of the existing well-casing to perform tests within the Bowland Shale, Namurian Sandstone and Kirkham Abbey formations. These tests may require the injection of water, some of which may return to the surface. Additionally, water naturally present in the target formation has the potential to flow to the surface. Contact with the target formations mean that the waste (produced water) may contain low levels of Naturally Occurring Radioactive Material (NORM) and so accumulation of radioactive waste is unavoidable. There is also potential for scales forming within associated pipe network. The waste produced waters arriving at the surface will be piped to a device which separates any hydrocarbons present from the produced waters. The produced waters will then be piped directly into, and accumulated in, dedicated storage tanks, from which they are removed by road at suitable intervals for disposal to an authorised waste disposal facility. Equipment found to be contaminated with scales will be removed from service and stored in a designated quarantine area to await removal from site (following characterisation).

**9.2.2** How will you measure the activity of all the types of the radioactive waste?

Samples shall be sent to a laboratory holding appropriate accreditations for radionuclide analysis by gamma spectrometry and also wet chemical methods where appropriate (dependent on the nature of the material, and the required Limit of Detection). A maximum accumulation period of 3 months is requested, to allow for the potential turnaround times associated with the analytical techniques required [potentially 6 weeks per sample; a contingency for the potential requirement for re-sampling and analysis has also been taken into account].

**9.2.3** Give the following details of the aqueous liquid waste you will accumulate

Radionuclides	Activity limits (in becquerels)	Maximum period waste is to be retained on site
Ra-226	1.76E+07	3 months
Pb-210	1.76E+07	3 months
Po-210	1.76E+07	3 months
Ra-228	1.76E+06	3 months

**9.2.4** What is the maximum volume of aqueous waste you will accumulate at any time?  
\_\_\_\_\_125\_\_\_\_\_ (cubic metres)

**9.2.5** Give the following details of the organic liquid waste you will accumulate

Radionuclides	Activity limits (in becquerels)	Maximum period waste is to be retained on site
N/A		

9.2.6 What is the maximum volume of organic liquid waste you will accumulate at any time?  
 \_\_\_\_\_ N/A \_\_\_\_\_ (cubic metres)

9.2.7 Give the following details of low-level solid waste you will accumulate

Radionuclides	Activity limits (in becquerels)	Maximum period waste is to be retained on site
Ra-226	10.0E+06	3 months
Pb-210	10.0E+06	3 months
Po-210	10.0E+06	3 months
Ra-228	4.0E+06	3 months
Th-228	4.0E+06	3 months

9.2.8 What is the maximum volume of low-level waste you will accumulate at any time?  
 \_\_\_\_\_ 5.0 \_\_\_\_\_ (cubic metres)

**9.3 Waste disposal direct to the local environment**

9.3.1 Tick all relevant boxes:

- Gaseous waste
- Aqueous waste

Provide a description of your arrangements for disposing of radioactive waste by the above means. (See guidance notes)

Document reference \_\_\_\_\_ N/A \_\_\_\_\_

**9.4 Discharge of radioactive gas or aqueous liquid waste to the local environment**

9.4.1 Indicate which discharge points or routes you plan to use (also see 9.4.5)

Tick all relevant boxes:

- A flare or vent from a device combusting waste natural gas
- A public sewer
- A river or stream
- A lake, pond or reservoir
- An estuary
- The sea
- Your own sewage treatment works

9.4.2 Provide your assessment of the risk of radiation from the waste you plan to discharge

Document reference \_\_\_\_\_ N/A; However, an assessment of Rn-222 which may be carried within any natural gas [and, as such, will be out-of-scope of the requirements of the EPR10 (as amended)] which flows from the well and is released via the flare, has been performed; see document P0665-RPA-001 Memo ~ Radon EIA 12.12.13.

9.4.3 State the limits you need for discharge of gaseous waste

Radionuclides	Monthly disposal limits (in becquerels)
N/A	

**9.4.4** State the limits you need for discharge of aqueous waste.

Radionuclides	Monthly disposal limits (in becquerels)
N/A (Transfer only)	

**9.4.5** Will you inject aqueous liquids into the well? For example for “well stimulation” or “hydraulic fracturing” purposes

- No   
 Yes

**Note** Aqueous liquids injected into the borehole for these purposes are likely to become contaminated with NORM in the borehole and its surroundings. Any such aqueous liquid which is not subsequently returned to the surface for disposal is considered to be radioactive waste being disposed of into the borehole or its surroundings.

We will regard this disposal as an inevitable aspect of your operation and will authorise it accordingly. In consequence you do not need to identify this as a disposal route in 9.4.1 above, include its disposal in Table 9.4.4 above or undertake any dose assessment in respect of it.

**9.5 Transfer of waste to another person**

This section covers the types of radioactive waste specified below.

**9.5.1** Tick all relevant boxes:

- Aqueous liquid waste   
 Organic liquid waste   
 Solid waste

**9.5.2** Provide a description of your arrangements for transferring radioactive waste to another person

Document reference Letters of Agreement in Principle relating to aqueous and solid waste transfers will follow in due course

**9.6 Aqueous liquid, organic liquid and solid waste**

**9.6.1** Give the following details of your plans to transfer aqueous liquid waste

Radionuclides	Annual disposal limits (in becquerels)	Annual volume (cubic metres)
Ra-226	1.76E+07	125
Pb-210	1.76E+07	125
Po-210	1.76E+07	125
Ra-228	1.76E+06	125

**9.6.2** Give the following details of your plans to transfer organic liquid waste

Radionuclides	Annual disposal limits (in becquerels)	Annual volume (cubic metres)
N/A		

**9.6.3** Give the following details of your plans to transfer solid waste

Radionuclides	Annual disposal limits (in becquerels)	Annual volume (cubic metres)
Ra-226	10	5
Pb-210	10	5
Po-210	10	5
Ra-228	4	5
Th-228	4	5

**9.6.4** Confirm whether you have contracts in place with another appropriately permitted organisation to receive for disposal all of your aqueous liquid, organic liquid and solid wastes

Yes   
 No

**9.6.5** Describe contingency arrangements should your planned transfer routes for aqueous liquid, organic liquid or solid waste become unavailable.

Liquid (non-organic): several waste treatment facilities have been identified for the disposal of aqueous liquid waste (produced waters). In the unlikely event that issues arise with regard to i) on-site accumulation capacity, or ii) off-site treatment and disposal capacity, operations at the wellsite will be temporarily suspended until off-site treatment and disposal capacity has been restored/increased.

Solid: Non-exempt solid waste is not envisaged. Contingency arrangement, should non-exempt solid waste be generated (up to max 200 Bq/g), is transfer to an authorised waste disposal facility, or an alternative suitably permitted waste contractor for treatment.

**10 Groundwater abstraction information**

**10.1 Groundwater investigation consent (for groundwater abstraction)**

**NOTE: you may also wish to send in relevant information previously sent to DECC or HSE**

10.1.1 Have you undertaken a groundwater investigation on this site?

No  Please contact us before proceeding further  
 Yes  Please give the consent reference number

Consent reference number \_\_\_\_\_

10.1.2 Are any details in this application different from those you provided for the Groundwater Investigation Consent?

No   
 Yes  Please send a copy of the additional details

**10.2 Borehole information**

10.2.1 Are the abstraction boreholes already constructed?

Yes   
 No

10.2.2 Fill in table 1 below for each abstraction borehole

**Table 1**

Where the boreholes are fixed for abstraction and discharge you need to provide answers here in columns: 1, 2, 3, 5, 6, and 9.

1 Abstraction, discharge or both?	2 Map label	3 Total depth (metres) (Specify the reference level you are using)	4 To what depth is the borehole or well sealed with unperforated linings or casing (in metres) below your reference level	5 Diameter (millimetres)	6 Lining-type and thickness of lining or linings	7 Does the borehole intermittently or permanently contact standing water?	8 What is the highest level the standing water reaches below your reference level?	9 How will overflow or leakage be prevented from artesian works?

If there are more than four boreholes, give details for the other boreholes on a separate sheet of paper.

## 11 Water discharges into ground

### 11.1 About the effluent – details

11.1.1 Give a brief description of the effluent discharge you want a permit for.

11.1.2 Give this effluent a unique name

You must use this name to identify this effluent throughout this application and all associated documents.

Name \_\_\_\_\_

### 11.2 About the effluent – how long will you need to discharge the effluent for?

11.2.1 What date do you want the permit for this effluent to start? \_\_\_\_\_

11.2.2 Is the discharge time limited?

Yes  Please give the date you expect the discharge to end but please note that your permit will not end on that date and you will still need to notify us to surrender the permit

(DD/MM/YYYY) \_\_\_\_\_

No

11.2.3 Will the discharge take place all year?

Yes

No  Please give details of the months when you will make the discharge \_\_\_\_\_

11.2.4 Will the discharge take place on more than six days in any year?

Yes

No

**11.3 What will be in your effluent?**

You should check to see if your discharge is likely to contain any of the substances listed in ‘Horizontal Guidance H1 Environmental Risk Assessment Annex J - Groundwater’ and answer the relevant questions for your discharge below.

11.3.1 Are any of the substances listed in Horizontal Guidance H1 added to or present in the effluent as a result of the activities on the site?

Yes   
No

11.3.2 Have any of the substances listed in Horizontal Guidance H1 been detected in samples of the effluent or in the existing groundwater in the strata the discharge will be into?

Yes   
No

11.3.3 Are there any other harmful or hazardous substances in your effluent not mentioned in Horizontal Guidance H1?

Yes   
No

11.3.4 If you have answered yes to any of the above, give details, using the headings below, on a separate sheet. You must also send us any information on samples that you may have.

Document reference of this sheet \_\_\_\_\_

Substance	Unit	Maximum concentration	Minimum Concentration	Average concentration	Number of samples	Total or dissolved

**11.4 Emissions of substances not controlled by emission limits management plan**

11.4.1 Does your H1 – Environmental Risk Assessment show that emissions of substances not likely to be controlled by emission limits in your permit are an important issue?

No   
Yes  Go to 11.5.2

11.4.2 If yes, have you got an emissions management plan which meets the requirements set out in our guidance document ‘How to Comply’?

No   
Yes  Please send us your emissions management plan

Document reference for the plan \_\_\_\_\_

**11.5 Environmental risk assessments and modelling**

**You may need to carry out an environmental risk assessment or modelling to support your application. Please answer the questions below that are relevant to your discharge. If an environmental risk assessment or modelling is required, you must send it to us with your application.**

11.5.1 Discharges to groundwater

You must carry out a groundwater quantitative risk assessment following the guidance in 'Horizontal Guidance H1 Environmental Risk Assessment Annex J – Groundwater'. Send us details of how the modelling was carried out and the outcome.

Document reference for the report \_\_\_\_\_

11.5.2 Environmental impact assessment

Have you carried out an environmental impact assessment?

Yes

Send us details of how the assessment was carried out and the outcome.

Document reference for the report \_\_\_\_\_

No

**11.6 Where will the effluent discharge to?**

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

11.6.1 Give the discharge point a unique name

For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan) \_\_\_\_\_

11.6.2 Give the national grid reference of the discharge point \_\_\_\_\_

11.6.3 Is the discharge to ground via a

Well

Borehole

Other deep structure  Please give details below

11.6.4 Is this effluent discharged through more than one outlet?

Yes

No

11.6.5 If yes, on a separate sheet, give details of the circumstances under which each outlet would be used by this effluent

Document reference for this extra sheet \_\_\_\_\_

If you answered yes make sure you show clearly on your discharge point appendix or appendices and site plan that this one effluent can discharge to more than one discharge point

You must give us all the details we need for each of the discharge points used by this effluent.

11.6.6 Is any part of your discharge within 50 metres of another well, spring or borehole?

No

Yes  Identify the location of the well, spring or borehole on the plan you have provided and go to 11.6.7.

11.6.7 Is the other well, spring or borehole you have identified used to supply water?



No

Yes  You must describe what the water supplied is used for. Please give details below

**11.7 How much do you want to discharge?**

11.7.1 Fill in the table below with the maximum volume of effluent you will discharge. If you are discharging to more than one borehole, then complete a row for each borehole.

**Table 2**

Map label	Maximum daily m3	Peak instantaneous litres/second

11.7.1 For each answer in the table above, show how you worked out the figure on a separate sheet

Document reference of the extra sheet \_\_\_\_\_

**11.8 Borehole information**

11.8.1 Are the discharge boreholes already constructed?

Yes

No

11.8.2 Fill in table 2 below for each discharge borehole

Where the boreholes are fixed for abstraction and discharge you need to provide answers here in columns 1, 2, 3, 4, 6, 7, 8

**Table 2**

1 Abstraction, discharge or both?	2 Map label	3 Total depth (metres) (Specify the reference level you are using)	4 To what depth is the borehole or well sealed with unperforated linings or casing (in metres) below your reference level	5 Diameter (millimetres)	6 Lining-type and thickness of lining or linings	7 Does the borehole intermittently or permanently contact standing water?	8 What is the highest level the standing water reaches below your reference level?	9 How will overflow or leakage be prevented from artesian works?

If there are more than four boreholes, give details for the other boreholes on a separate sheet of paper.

### 11.8.3 Discharge monitoring arrangements

11.8.4 What is the national grid reference of the inlet sampling point? \_\_\_\_\_

11.8.4 What is the national grid reference of the effluent sample point? \_\_\_\_\_

11.8.5 What is the national grid reference of the flow monitoring point? \_\_\_\_\_

11.8.6 Does the flow monitor have an MCERTS certificate?

No

Yes  Please give the certificate number \_\_\_\_\_

You should clearly label on your site plan the locations of any of the above that apply to this effluent

## 12 Flaring of gas greater than 10 tonnes per day (Further information can be found in Onshore oil and gas exploratory operations – technical guidance)

### 12.1. Will the flaring of gas meet the conditions set out in Onshore oil and gas exploratory operations – technical guidance?

(You can find this guidance by calling 03708 506 506 or by downloading it from our website at [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk) )

No  Please send us your flaring emissions management plan

Yes

12.1.1 What size of flare are you proposing to use? Flare Tip Height: 3.05M Flare Tip Diameter:305mm

12.1.2 What is its capacity range? (Tonnes per day) 372 Tonnes per day

12.1.3 What range of gas flow are you expecting to encounter (Tonnes per day) 93 Tonnes per day

### 12.2 Technical standards

Fill in table 4 and list the relevant technical guidance note (TGN) or notes you are planning to use. If you are planning to use the standards set out in the technical guidance note, there is no need to justify using them.

You must justify your decisions in a separate document if:

- there is no technical standard;
- the technical guidance provides a choice of standards; or
- you plan to use another standard.

This justification could include a reference to the Environmental Risk Assessment provided in section 7.5.

The documents in table 3a should summarise the main measures you use to control the main issues identified in the H1 assessment or technical guidance. For each of the activities listed in table 3, describe the type of operation and the options you have chosen for controlling emissions from your process.

### Table 3 – Technical standards

(Note: Fill in a separate table for each activity at the installation.)

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Installation name: Crawberry Hill Wellsite		
Schedule-1 activity or directly associated activity description.	Relevant technical guidance note or Best available techniques as described in BAT conclusions under IED (see footnote below) (You will need to refer to 'How to comply for all permits.)	Document reference (if appropriate)
	<a href="#">'How to comply'</a>	
Incineration of natural gas during testing	Technical Guidance Not for Onshore Oil and Gas Exploratory Operations	August 2013

\*DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

If appropriate, use block diagrams to help describe the operation and process. Give the document reference numbers you use for each diagram and description.

Document reference number Appendix 5 of RE-05-EPRA-CH-WMP-005

**12.3 Emissions to air.**

12.3.1 Fill in table 4 below with details of the emissions that result from the operating techniques at your installation (flare stack).

**Table 4 – Emissions (releases)**

Installation name	Crawberry Hill Wellsite			
<b>Point-source emissions to air</b>				
Emission point reference and location	Source	Parameter	Quantity	Unit
CH1 Flare Stack – Crawberry Hill Wellsite	Flaring	Nitrous Oxides	1.69	Grams / Second
CH1 Flare Stack – Crawberry Hill Wellsite	Flaring	Carbon Monoxide	9.18	Grams / Second

**12.3.2 Describe the measures you use for monitoring emissions by referring to each emission point in table 2 above.**

You should also describe any environmental monitoring. Tell us:

- how often you use these measures;
- the methods you use; and
- the procedures you follow to assess the measures.

Document reference number for this information Appendix 5 of RE-05-EPRA-CH-WMP-005

**12.3.3 Point-source emissions to air only**

Provide an assessment of the sampling locations you have used to measure point-source emissions to air. The assessment must use M1(see guidance).

Document reference number of the assessment Appendix 5 of RE-05-EPRA-CH-WMP-005

### 13 Charges (you must fill in this section)

#### 13.1 Working out charges

You have to submit an application fee with your application. You can find out the charge by looking at the current environmental permitting charging scheme on our website at [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk) which sets out our charges under the Environmental Permitting Regulations.

Please remember that the charges are revised on 1 April each year and that there is an annual subsistence charge to cover the costs we incur in the ongoing regulation of the permit.

**Table 5.1 – Working out charges – all activities except RSR**

Type of application	Summary of charges			
Tier 2 facilities	Charge identifier	Number of facilities	Charge for each facility (£)	Charges due (£)
Tier 3 facilities				
Total Opra charging for installations	201	x charge multiplier	£148.00	= £29,748.00
Total Opra charging score for mining waste operations	54	x charge multiplier	£167.00	= £9,018.00
Total Opra charging score for mining waste facilities		x charge multiplier		=
Other charges				
Total charges due				£38,766.00

**Table 5.2 Working out charges – RSR**

RSR Permit type (see note 1)	Charges due (£) (see note 2)
G	£2,880.00

Note 1: G as described in the charging scheme guidance. We think your permit will be a type G. If you disagree please correct – the only other possible option is type H.

Note 2: As specified in the charging scheme guidance.

#### 13.2 OPRA

Please include a completed electronic copy in Excel of the current OPRA spreadsheet.

Tick this box to confirm that you have included the OPRA spreadsheet

#### 13.3 Payment

Tick below to show how you have paid

- Cheque
- Postal order
- Cash  (Tick below to confirm you are enclosing cash with the application)
- Credit or debit card

Electronic transfer (for example, BACS)

Remittance number REUK/EPRA/CH/01

Date paid (DD/MM/YY) \_\_\_\_\_

## How to pay

### Paying by cheque, postal order or cash

Cheque details

Cheque made payable to \_\_\_\_\_

Cheque number \_\_\_\_\_

Amount £ \_\_\_\_\_

You should make cheques or postal orders payable to 'Environment Agency' and make sure they have 'A/c Payee' written across them if it is not already printed on.

Please write the name of your company and application reference number on the back of your cheque or postal order. **We will not** accept cheques with a future date on them.

We do not recommend sending cash through the post. If you cannot avoid this, please use a recorded-delivery postal service and enclose your application reference details. Please tick the box below to confirm you are enclosing cash.

I have enclosed cash with my application.

### Paying by credit or debit card

If you are paying by credit or debit card, either we can call you or you can fill in the separate form CC1 and enclose it with the application. We will destroy your card details once we have processed your payment. We can accept payments by Visa, MasterCard or Maestro card only.

Please call me to arrange payment by debit or debit card

I have enclosed form CC1 with my application

### Paying by electronic transfer BACS reference

If you choose to pay by electronic transfer you will need to use the following information to make your payment.

Company name: Environment Agency  
Company address: Income Dept 311,  
PO Box 263, Peterborough, PE2 8YD  
Bank: Citigroup Centre  
Address: Canada Square, London, E14 5LB  
Sort code: 08-33-00  
Account number: 12800543  
Payment reference number: PSCAPPXXXXYYY

You need to create your own reference number. It should begin with PSCAPP (to reflect that the application is for a permitted activity) and it should include the first five letters of the company name (replacing the X's in the above reference number) and a unique numerical identifier (replacing the Y's in the above reference number). The reference number that you supply will appear on our bank statements.

You should also email your payment details and reference number to [FSC-Income@environment-agency.gov.uk](mailto:FSC-Income@environment-agency.gov.uk) fax it to 01733 464892.

If you are making your payment from outside the United Kingdom, it must be in sterling. Our IBAN number is GB42 BARC2013 4220 7446 46 and our SWIFTBIC number is BARC GB22.

If you do not quote your reference there may be a delay in processing your payment and application.

### 13.4 The Data Protection Act 1998

We, the Environment Agency, will process the information you provide so that we can:

- deal with your application;
- make sure you keep to the conditions of the licence, permit or registration;
- process renewals; and
- keep the public registers up to date.

We may also process or release the information to:

- offer you documents or services relating to environmental matters;
- consult the public, public organisations and other organisations (for example, the Health and Safety Executive, local authorities, the emergency services, the Department for Environment, Food and Rural Affairs) on environmental issues;
- carry out research and development work on environmental issues;
- provide information from the public register to anyone who asks;
- prevent anyone from breaking environmental law, investigate cases where environmental law may have been broken, and take any action that is needed;
- assess whether customers are satisfied with our service, and to improve our service; and
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows). We may pass the information on to our agents or representatives to do these things for us.

### 13.5 Confidentiality and national security

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential.

#### Confidentiality

You can ask for information to be made confidential by enclosing a letter with your application giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application.

#### Only tick the box below if you wish to claim confidentiality for your application

Please treat the information in my application as confidential.

#### National security

You can tell the Secretary of State that you believe including information on a public register would not be in the interests of national security. You must enclose a letter with your application telling us that you have told the Secretary of State and you must still include the information in your application. We will not include the information in the public register unless the Secretary of State decides that it should be included.

You can find guidance on national security in 'Core Environmental permitting guidance' published by Defra and available via our website at [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk).

You cannot apply for national security via this application.

## 14 Declaration

**If you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2010.**

**A relevant person should make the declaration (see guidance notes)**

I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

Tick this box to confirm that you understand and agree

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with the declaration above, then fill in the details below.

Name

Title (Mr, Mrs, Miss and so on)

Mr

First name

David

Last name

Montagu-Smith

on behalf of (company or organisation)

Rathlin Energy (UK) Limited

Position (in company or organisation)

Chairman

Today's Date (DD/MM/YY)

3<sup>rd</sup> February 2014

**15 Application checklist (You must fill in this section)**

Tell us what you have sent with this application.

The correct application fee under our charging scheme.

Tick the box to say you have included the fee

List all the documents you have included. if necessary, continue on a separate sheet and tell us the reference number you have given the document below;

Document Reference number

RE-05-EPRA-CH-001

Question reference	Document title	Document reference
Setion 3.3	Rathlin Energy Environmental Policy Manual	RE-05-EPRA-CH-WMP-005 (Appendix 2)
Section 5	Crawberry Hill Planning Permission	RE-05-EPRA-CH-PDN-009
Section 7.1	Site Plan	RE-05-EPRA-CH-SP-004
Section 7.2	Site Condition Report	RE-05-EPRA-CH-SCR-006
Section 7.3	Non Technical Summary	RE-05-EPRA-CH-NTS-003
Section 7.5	Environmental Risk Assessment	RE-05-EPRA-CH-ERA-007
Section 8.1	Waste Management Plan	RE-05-EPRA-CH-WMP-005
Section 9.1	Best Available Techniques Statement	RE-05-EPRA-CH-WMP-005 (Appendix 6)
Section 13.2	OPRA	RE-05-EPRA-CH-OPRA-008

**16 How to contact us**

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422549 (Monday to Friday, 8am to 6pm)

Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)

Website: [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

**Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.**