

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

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**IGas Energy Production Limited**  
Cold Hanworth Well Site  
Wetmoor Lane  
Welton Low Fields  
Welton  
Lincolnshire  
LN2 3RD

Variation notice number

**EPR/NB3192DK/V002**

Permit number

**EPR/NB3192DK**

# Cold Hanworth Well Site

## Permit Number EPR/NB3192DK

### Introductory note

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

The following notice gives notice of the variation of an environmental permit.

This variation is for the addition of receipt of radioactive waste and changes to aqueous disposals.

The Schedules specify the changes made to the permit. A varied and consolidated environmental permit, reflecting the changes made to the permit, has been issued.

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

<b>Status Log of the permit</b>		
<b>Detail</b>	<b>Date</b>	<b>Response Date</b>
Transfer application EPR/NB3192DK/T001 (Full transfer of permit EPR/MB3135DG)	Duly made 09/01/2018	-
Transfer determined EPR/NB3192DK	05/07/2018	-
Variation application EPR/NB3192DK/V002	Duly made 09/01/2018	-
Transfer determined EPR/NB3192DK	29/05/2019	-

- <sup>(1)</sup> This is the reference number on the consolidated permit. The notice specifying the changes is numbered EPR/NB3192DK/V002

End of Introductory note

**Notice of variation**

Environmental Permitting (England and Wales) Regulations 2016

**Permit number**  
**EPR/NB3192DK**

**The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies the environmental permit issued to**

**IGas Energy Production Limited** (“the operator”)

whose registered office is  
**c/o Womble Bond Dickinson (UK) LLP**  
**124-125 Princes street**  
**Edinburgh**  
**EH2 4AD**

company registration number SC298739

to carry on a radioactive substances activity at

**Cold Hanworth Well Site**  
**Wetmoor Lane**  
**Welton Low Fields**  
**Lincolnshire**  
**LN2 3RD**

to the extent set out in the Schedules.

The notice shall take effect from 29/05/2019

Name	Date
<b>Team Leader - Radioactive Substances Regulation</b>	<b>29/05/2019</b>

Authorised on behalf of the Environment Agency

### **Schedule 1: variations to the permit**

The following conditions were varied on the application of the operator:

Condition 2.6 – varied to include receipt of radioactive waste.

Schedule 1 Table S 1.1 – varied to include receipt of radioactive waste.

Schedule 2 Table S2.1 – varied to include accumulation of aqueous waste. Changes to specified waste type Solid including radionuclides, limits of activity and maximum period to bring in line with current permit template.

Schedule 3 Table S3.4 – varied to include aqueous waste disposal. Changes to specified waste type Solid including persons to whom waste may be transferred, purpose of transfer, radionuclides and annual activity limits.

All conditions of permit NB3192DK have been replaced by Parts 1-4 and Schedules 1-5 of the consolidated permit.

### **Schedule 2: varied and consolidated permit**

A varied and consolidated permit has been separately issued.

## Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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IGas Energy Production Limited  
Cold Hanworth Well Site  
Wetmoor Lane  
Welton Low Fields  
Welton  
Lincolnshire  
LN2 3RD

Permit number  
EPR/NB3192DK

# Permit number EPR/NB3192DK

## Introductory note

### This introductory note does not form a part of this permit

The permit allows the Operator to accumulate and dispose of radioactive waste containing naturally occurring radioactive material [NORM] arising from the production of oil and gas.

The permit allows NORM wastes to be accumulated and disposed of, in the form of gaseous waste, aqueous waste and solid waste. The permit limits the amount of aqueous radioactive waste that can be held on site at any one time and require aqueous and solid wastes to be disposed of within 3 months. The permit authorises these wastes to be disposed of by transfer to operators who are themselves permitted to receive and dispose of these radioactive wastes. The permit allows direct disposal of gaseous wastes to the environment.

In addition, the permit authorises

- the disposal of any residual well stimulation fluids, containing NORM, which have remained underground rather than returned to the surface after use;
- the disposal to the underground strata of NORM present in water brought to the surface from the production of oil and gas.

For clarity, this is NORM that was present in the underground rock before the industrial activity took place, and has either remained there throughout or has been returned underground after being brought to the surface in the oil or gas abstracted from the rock.

The Health and Safety Executive regulates activities involving work with ionising radiation under the Ionising Radiation Regulations 1999 for the protection of the workforce. Those regulations cover accidents and contingency arrangements in the event of accidents involving radioactive materials and waste, including any off-site effects and response.

The permit is issued under the provisions of regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016.

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

Status Log of the permit		
Detail	Date	Response Date
Transfer application EPR/NB3192DK/T001 (Full transfer of permit EPR/MB3135DG)	Duly made 09/01/2018	-
Transfer determined EPR/NB3192DK	05/07/2018	-
Variation Application EPR/NB3192DK/V002	Duly made 09/01/2018	-
Variation determined EPR/NB3192DK	29/05/2019	-

**End of Introductory Note**

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

## Permit

Permit number

**EPR/NB3192DK**

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**IGas Energy Production Limited** (“the operator”),

whose registered office is

**c/o Womble Bond Dickinson (UK) LLP**

**124-125 Princes Street**

**Edinburgh**

**EH2 4AD**

company registration number SC298739

to carry on radioactive substances activities at

**Cold Hanworth Well Site**

**Wetmoor Lane**

**Welton Low Fields**

**Lincolnshire**

**LN2 3RD**

(“the premises”)

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

Name	Date
<b>Team Leader - Radioactive Substances Regulation</b>	29/05/2019

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 is sufficient to ensure compliance with the conditions of this permit; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 The operator shall maintain records demonstrating compliance with condition 1.1.1.
- 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 manage and operate the activities in consultation with such suitable radioactive waste advisors as are necessary for the purpose of advising the operator as to compliance with this permit.

## 2 – Operations

### 2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry on 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 5 to this permit and the area adjacent to the wellbore(s).

### 2.3 Operating techniques

- 2.3.1 The operator shall use the best available techniques:
- (a) to minimise the period over which radioactive waste is accumulated;
  - (b) to minimise the activity of radioactive waste produced on the premises that will require to be disposed of on or from the premises;
  - (c) to ensure that all relevant parts of the premises are constructed, maintained and used in such a manner that:
    - (i) they do not readily become contaminated; and
    - (ii) any contamination which does occur can be easily removed;
  - (d) to prevent:
    - (i) the loss of any radioactive waste; and
    - (ii) access to any radioactive waste by any person not authorised by the operator.
- 2.3.2 The operator shall use the best available techniques in respect of the disposal of radioactive waste pursuant to this permit to:



- (a) minimise the activity of gaseous and aqueous radioactive waste disposed of by discharge to the environment;
  - (b) minimise the volume of radioactive waste disposed of by transfer to other premises; and
  - (c) dispose of radioactive waste at times, in a form, and in a manner so as to minimise the radiological effects on the environment and members of the public.
- 2.3.3 The operator shall use the best available techniques to:
- (a) exclude all entrained solids, gases and non-aqueous liquids from radioactive aqueous waste prior to discharge to the environment;
  - (b) ensure that any discharge of radioactive gas to the atmosphere is made in a manner which prevents its entry into any building.
- 2.3.4 The operator shall maintain in good repair the systems and equipment provided:
- (a) to meet the requirements of conditions 2.3.1, 2.3.2 and 2.3.3; and
  - (b) to carry out any monitoring and measurements necessary to determine compliance with the conditions of this permit.
- 2.3.5 The operator shall check, at an appropriate frequency, the effectiveness of systems, equipment and procedures provided to meet the requirements of conditions 2.3.1, 2.3.2 and 2.3.3.
- 2.3.6 Any container in which radioactive waste is stored shall be clearly and legibly marked with the word 'Radioactive', with the ionising radiation symbol conforming with BS 3510: 1968 or ISO 361 and any other information necessary for the identification of the or radioactive waste present.
- 2.3.7 The operator shall have and comply with appropriate criteria for the acceptance into service of systems, equipment and procedures for carrying out any monitoring and measurements necessary to determine compliance with the conditions of this permit.
- 2.3.8 The operator shall post copies of this permit on the premises, in such characters and in such positions to be conveniently read by persons who have duties on the premises which are or could be affected by the matters set out in this permit.

## **2.4 Pre-operational conditions**

- 2.4.1 The activities shall not be brought into operation until the measures specified in Schedule 1, Table S1.2A have been completed.
- 2.4.2 The operations specified in schedule 1 table S1.2B shall not commence until the measures specified in that table have been completed.
- 2.4.3 Written notification of the date of completion of each measure shall be sent to the Environment Agency within 14 days of the completion of each such requirement.

## **2.5 Improvement programme**

- 2.5.1 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.
- 2.5.2 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.

## **2.6 Receipt of radioactive waste**

### **2.6.1 The operator shall:**

- (a) only accept radioactive waste which this permit allows the operator to accumulate or dispose of;

- (b) for each type of radioactive waste that the operator is prepared to receive, produce a written specification of the information required to enable the disposal of that type of radioactive waste in compliance with this permit;
  - (c) provide that written specification to any person from whom the operator is prepared to receive radioactive waste of that type;
  - (d) only accept a consignment of radioactive waste that is accompanied by a legible note providing the specified information; and
  - (e) keep a copy of any such note received.
- 2.6.2 Before the operator first receives radioactive waste from a consignor for the purpose of final disposal of that waste from or on the premises, the operator shall, at the earliest opportunity, inform the local authority, in whose area of responsibility the premises is situated, of the origin and nature of the radioactive waste.
- 2.6.3 The provisions of condition 2.6.2 do not apply:
- (a) where the waste consignor is exempt from the requirement to hold an environmental permit for the disposal of radioactive waste;
  - (b) to the extent that it would require the disclosure of information relating to sealed radioactive sources;

## **2.7 Accumulation of radioactive waste**

- 2.7.1 There shall be no accumulation of radioactive waste except of the types of radioactive waste specified in Schedule 2, Table S2.1.
- 2.7.2 The limits on accumulation given in Schedule 2 shall not be exceeded.
- 2.7.3 The operator shall maintain records of radioactive waste showing:
- (a) the radionuclide present, the date on which accumulation began and the activity on that date;
  - (b) so far as is reasonably practicable its location on the premises;
  - (c) if it has been removed from the premises, the date of removal, the activity on that date and the name and address of the person to whom it was transferred; and
  - (d) the total activity and volume of radioactive waste present on the premises.

# **3 – Disposals of radioactive waste and monitoring**

## **3.1 Disposals of radioactive waste**

- 3.1.1 There shall be no disposals of radioactive waste except of the types of radioactive waste and by the disposal routes specified in Schedule 3.
- 3.1.2 The limits on disposals given in Schedule 3 shall not be exceeded.
- 3.1.3 The operator shall ensure that the transfer of radioactive waste:
- (a) is in accordance with the directions of the person to whom the radioactive waste is transferred that are necessary to enable that person to comply with all relevant regulatory requirements;
  - (b) is done using a suitable container constructed and maintained so as to prevent the loss of waste; and

- (c) so far as is reasonably practicable, is not subject to delays in transit and is accepted at the premises of the person to whom the operator transfers waste.
- 3.1.4 The operator shall:
- (a) ensure that the person to whom radioactive waste is transferred receives at the time of transfer of each consignment a clear and legible note signed on the operator's behalf:
    - (i) stating the total activity in the consignment of each relevant radionuclide or group of radionuclides listed in the relevant table in Schedule 3; or
    - (ii) stating, when no relevant radionuclide or group of radionuclides is specified in Schedule 3, the total activity in the consignment of each radionuclide or group of radionuclides as listed in the written specification of the person to whom the radioactive waste is transferred.
  - (b) obtain a note signed on behalf of the person to whom radioactive waste is transferred, at the time of transfer, stating that the transfer has taken place; and
  - (c) keep a copy of any note issued under condition 3.1.4(a) and any note received under condition 3.1.4(b).
- 3.1.5 If required by the Environment Agency, the operator shall ensure that any consignment or part of any consignment of radioactive waste found, following transfer, not to be in accordance with the conditions of this permit:
- (a) is packaged in accordance with the relevant legislation; and
  - (b) is returned as soon as is reasonably practicable to the operator's site.
- 3.1.6 The operator shall, not later than 14 days after the end of each month or within such longer period as the Environment Agency may approve in writing, record all disposals of radioactive waste made during that month.

## 3.2 Monitoring

- 3.2.1 If required by the Environment Agency, the operator shall
- (a) take such samples and conduct such measurements, tests, surveys, analyses and calculations, including environmental measurements and assessments, at such times and using such methods and equipment as the Environment Agency specifies; and
  - (b) keep samples, provide samples, or dispatch samples for tests at a laboratory, as the Environment Agency specifies, and ensure that the samples or residues thereof are collected from the laboratory within three months of receiving written notification that testing and repackaging in accordance with the relevant legislation are complete.
- 3.2.2 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.
- 3.2.3 The operator shall carry out:
- (a) regular calibration, at an appropriate frequency, of systems and equipment provided for carrying out any monitoring and measurements necessary to determine compliance with the conditions of this permit; and
  - (b) regular checking, at an appropriate frequency, that such systems and equipment are serviceable and correctly used.

## 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 until notified in writing by the Environment Agency that records no longer need to be retained.
- 4.1.2 The operator shall:
- (a) retain records made in accordance with any previous relevant permit issued to the operator and related to the premises covered by this permit; and
  - (b) retain records transferred to the operator, which were made in accordance with any previous relevant permit related to the premises covered by this permit.
- 4.1.3 The operator shall keep on site all records, plans and the management system required 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 this permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 The operator shall supply such information in relation to:
- (a) the disposals of radioactive waste; and
  - (b) the samples, tests, surveys, analysis and calculations, environmental monitoring and assessments undertaken under condition 3.2.1;
- in such format and within such timescales as the Environment Agency may specify in writing.

### 4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques or accident, which has caused, is causing or may cause significant pollution or may generate significant amounts of radioactive waste;
  - (b) the breach of a limit specified in this permit; or
  - (c) any significant adverse environmental effects; or
  - (d) any escape of accumulated radioactive waste.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in Schedule 4 within the time period specified in that Schedule.
- 4.3.3 The Environment Agency shall be notified in writing, at least 21 days in advance or, where this is not possible, without delay, of the operator's intention to cease to accumulate or dispose of radioactive waste.
- 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:

- (a) Where the operator is a registered company:
  - any change in the operator's trading name, registered name or registered office address; and
  - any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- (b) Where the operator is a corporate body other than a registered company:
  - any change in the operator's name or address; and
  - any steps taken with a view to the dissolution of the operator.
- (c) In any other case:
  - the death of any of the named operators (where the operator consists of more than one named individual); and
  - 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 them being in a partnership, dissolving the partnership.

4.3.5 If the operator believes or has reasonable grounds for believing that radioactive waste have been lost or stolen he shall:

- (a) without delay inform the Police and the Environment Agency;
- (b) make all reasonable efforts to recover that radioactive waste; and
- (c) as soon as is practicable report the circumstances in writing to the Environment Agency.

## 4.4 Interpretation

4.4.1 In this permit the expressions listed below shall have the meaning given.

*“activity”*, expressed in becquerels, means the number of spontaneous nuclear transformations occurring in a period of one second.

*“annual limit”* means the limit over a calendar year.

*“aqueous waste”* means radioactive waste in the form of a continuous aqueous phase together with any entrained solids, gases and non-aqueous liquids.

*“best available techniques”* means the latest stage of development (state of the art) of processes, of facilities or of methods of operation which indicate the practical suitability of a particular measure for limiting discharges, emissions and waste. In determining whether a set of processes, facilities and methods of operation constitute the best available techniques in general or individual cases, special consideration shall be given to:

- (a) comparable processes, facilities or methods of operation which have recently been successfully tried out;
- (b) technological advances and changes in scientific knowledge and understanding;
- (c) the economic feasibility of such techniques;
- (d) time limits for installation in both new and existing plants; and
- (e) the nature and volume of the discharges and emissions concerned.

*“environment”* means all, or any, of the media of air, water (to include sewers and drains) and land.

*“environmental permit”* means a permit under the Environmental Permitting Regulations for the accumulation or disposal of radioactive waste.

*“Environmental Permitting Regulations”* means The Environmental Permitting (England and Wales) Regulations 2016.

*“gaseous waste”* means radioactive waste in the form of gases and associated mists and particulate matter.

*“LLW”* means solid radioactive waste, including any immediate packaging, with a maximum concentration of 4 gigabecquerels per tonne of alpha emitting radionuclides and 12 gigabecquerels per tonne of all other radionuclides.

*“LLWR”* means Low Level Waste Repository near Drigg, Cumbria.

*“LLWR Site Operator”* means the holder of the licence issued under the Nuclear Installations Act 1965 for the LLWR.

*“packaging”* includes any sack, drum, container or wrapping.

*“radioactive waste adviser”* means, subject to the transitional arrangements in the Agencies' Scheme for Radioactive Waste Advisers (“the Scheme”), either an individual certified under the Scheme and appointed in writing by the operator, or those individuals advising the operator under the operators arrangements for “corporate radioactive waste adviser” as approved under the Scheme. The Scheme is published at:

[http://www.sepa.org.uk/radioactive\\_substances/radioactive\\_waste\\_advisers.aspx](http://www.sepa.org.uk/radioactive_substances/radioactive_waste_advisers.aspx)

*“samples”* includes samples that have been prepared or treated to enable measurements of activity to be made.

*“techniques”* include both the technology used and the way in which the installation is designed, built, maintained, operated and dismantled.

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 23 of the Environmental Permitting Regulations	Description of specified activity	Limit of specified activity
Sch 23 Part 2 para 11(2)(c)	Accumulation of radioactive waste on the premises	31. Activities that may result in the occurrence of Naturally Occurring Radioactive Material (NORM).
Sch 23 Part 2 para 11(2)(b)	Disposal of radioactive waste on or from the premises	
Sch 23 Part 2 para 11(4)(a)	Receipt of radioactive waste	

Table S1.2A: Pre-operational measures	
Reference	Pre-operational measures
	None specified

Table S1.2B Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
-	None specified	-

Table S1.3: Improvement programme requirements		
Reference	Requirement	Date
-	None specified.	-

## Schedule 2 – Accumulation of radioactive waste

<b>Table S2.1: Accumulation of radioactive waste</b>			
<b>Specified waste type</b>	<b>Radionuclide or group of radionuclides permitted to be present in the waste</b>	<b>Limit of activity on the premises at any one time</b>	<b>Maximum period for the retention of waste</b>
Aqueous radioactive waste	Radionuclides arising from the permitted NORM industrial activities <sup>1</sup>	30 MBq Ra226 <sup>2</sup> 30 MBq Ra 228 <sup>2</sup>	3 months
Solid radioactive waste	Radionuclides arising from the permitted NORM industrial activities <sup>1</sup>	None specified	12 months

[1] Radionuclides as listed in table 1 of Schedule 23 to the 2016 Environmental Permitting (England and Wales) Regulations [as amended by SI 2011 no 2043].

[2] Limits apply to the specified radionuclides only and do not include the decay products



## Schedule 3 – Disposals of radioactive waste

<b>Table S3.1: Specified disposals to air</b>			
<b>Specified waste type</b>	<b>Disposal outlet ref</b>	<b>Radionuclide or group of radionuclides permitted to be present in the waste</b>	<b>Annual limits</b>
Gaseous radioactive waste	Flare or vent for waste gas	Radionuclides arising from the permitted NORM industrial activities	None specified

<b>Table S3.2: Specified disposals to sewer or water</b>			
<b>Specified waste type</b>	<b>Disposal outlet ref</b>	<b>Radionuclide or group of radionuclides permitted to be in the waste</b>	<b>Monthly limits</b>
No disposals to sewer or water authorised	-	-	None specified

<b>Table S3.3: Specified disposals to underground strata</b>			
<b>Specified waste type</b>	<b>Disposal outlet ref</b>	<b>Radionuclide or group of radionuclides permitted to be in the waste</b>	<b>Annual limits</b>
Aqueous radioactive waste, being 1) well stimulation fluid remaining in situ, 2) water containing substances resulting from the operation of the production of oil and gas	Disposal in the rock formation adjacent to the wellbore(s)-	Radionuclides arising from the permitted NORM industrial activities	None specified

<b>Table S3.4: Specified transfers to other premises</b>				
<b>Specified waste type</b>	<b>Person to whom waste may be transferred</b>	<b>Purpose of transfer</b>	<b>Radionuclide or group of radionuclides permitted to be in the waste</b>	<b>Annual Activity limit</b>
Aqueous radioactive waste	Any person who holds an environmental permit for the receipt and disposal of aqueous radioactive waste.	For treatment or disposal	Radionuclides arising from the permitted NORM industrial activities	None specified
Solid radioactive waste	Any person who holds an environmental permit for the receipt and disposal of LLW.	For any one or more of: <ul style="list-style-type: none"> <li>- treatment</li> <li>- onward transfer for treatment or disposal</li> <li>- metals recovery</li> <li>- final disposal</li> </ul>	Radionuclides arising from the permitted NORM industrial activities	None specified

# Schedule 4 - 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 disposal. Where appropriate, a comparison should be made of actual disposals and permitted disposal limits.

## Part A

Permit Number	EPR/NB3192DK
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 disposal which has caused, is causing or may cause significant pollution or may generate significant amounts of radioactive waste	
<b>To be notified within 24 hours of detection</b>	
Date and time of the event	
Reference or description of the location of the event	
Description of where any disposal into the environment took place	
Radionuclides potentially released	
Best estimate of the quantity or rate of release of radionuclides or amount of radioactive waste generated	
Measures taken, or intended to be taken, to stop any disposal	
Description of the failure or accident	

(b) Notification requirements for the breach of a limit	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Disposal outlet reference/source	
Radionuclides	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the disposal	
<b>Time periods for notification following detection of a breach of a limit</b>	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
<b>To be notified within 24 hours of detection</b>	
Description of where the effect on the environment was detected	
Radionuclides detected	
Activity of radionuclides 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 contamination of the environment which has been or may be caused by the disposal	
The dates of any unauthorised disposals from the facility in the preceding 24 months	

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of IGas Energy Production Limited

## Schedule 5 - Site plan



END of PERMIT