

# Notice of variation and consolidation with introductory note

**The Environmental Permitting (England & Wales) Regulations 2016**

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Angus Energy Weald Basin No.3 Limited

Saltfleetby Wellsites  
Saddleback Road  
Howdales  
South Cockerington  
Louth  
LN11 7DJ

**Variation application number**

EPR/JB3107XB/V002

**Permit number**

EPR/JB3107XB

# Saltfleetby Wellsites

## Permit number EPR/JB3107XB

### Introductory note

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

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

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

#### **Changes introduced by this variation notice**

This variation is required to install the following equipment at Saltfleetby well-site B (SFB):

- Gas processing (refining) plant - We have reviewed the permit for the gas processing plant against the Best Available Techniques (BAT) Conclusions for the Refining of Mineral Oil and Gas industry sector published on 28 October 2014.
- Power generation equipment – Four gas engines, each at 2.17 MWth, identified as new medium combustion plant (MCP), for gas compression and to provide power to the gas refining plant. A fifth future booster engine of similar size has also been included. The gas engines are fired on a mixture of produced gas, more commonly known as refinery fuel gas (RFG) and commercial grade natural gas.

Saltfleetby A and B (SFA and SFB) onshore production well-sites were established in 1999, producing natural gas, water and condensate. A pipeline transported hydrocarbons to the nearby Theddlethorpe Gas Terminal (TGT) for processing. Gas production at the installation was suspended in 2017 due to the closure of TGT.

Operations will be brought back into production status once the additional gas processing plant is installed and commissioned and the new gas export pipeline extension is installed to allow pumping of gas direct to the National Grid Transmission System (NTS).

To ensure the produced gas can be exported to the NTS, the following changes are required:

Installation of natural gas and condensate processing facilities at the SFB well-site. This will indicatively include modification to the existing first stage separator, a set of compressors, a passive dehydration system to remove water, a solid state Joule-Thomson valve allowing for a drop in pressure and temperature to remove heavy hydrocarbons, a condensate stabilisation tower, a new condensate storage unit, produced water storage, a metering and analysis skid, a fuel gas skid, an enclosed ground flare and some associated pipe-work, manifolding and four gas powered generators.

The installation of the gas processing facilities at the SFB well-site will enable gas production from the remaining reserves of the Saltfleetby gas field to resume. The gas will be piped using the existing 8km Saltfleetby to Theddlethorpe underground gas pipeline to the NTS entry point at Theddlethorpe operated by National Grid.

The gas processing (refining) plant is defined by the following definitions in Part 2, Schedule 1 of the EPR 2016:

Section 1.2 Part A(1)(a): Refining gas where this is likely to involve the use of 1,000 or more tonnes of gas in any 12-month period.

Section 1.2 Part A(1)(e)(i): The loading, unloading, handling or storage of, or the physical, chemical or thermal treatment of crude oil.

### Brief description of the process

The installation comprises three discrete well sites in close proximity to each other:

- Saltfleetby A (SFA) well-site, which comprises two wells (A1 is fully abandoned and A4 is due to be brought back into production), chemical injection grid, air compressors, control building and associated road tanker off-loading facility.
- Saltfleetby B (SFB) well-site, which comprises three wells (B2 is due to be brought back into operation, B3 is fully abandoned and B5 is long-term suspended with possible side-track for future gas production), a three phase separator and storage tanks.
- Saltfleetby B well-site extension, which comprises three wells (B6 is long-term suspended, possible future geothermal well, B7 is to be side-tracked for future production and B8 is a possible side-track for future gas production or as the second geothermal well), gas flare and gas processing equipment including a dehydration unit, dewpoint control, gas compressors and engines for power generation.

The sites are located near the village of Saltfleetby St. Peter at national grid reference TF 42558 91323, approximately 10km north east of Louth, Lincolnshire. The SFA and SFB sites are approximately 1 km apart, located on either side of Saddleback Road.

Processed gas arising from the wells is delivered by a 10 inch pipeline to the nearby TGT. The two Saltfleetby sites are connected by a 6 inch pipeline.

Produced water and condensate is removed from site by road tanker. Surface water is directed to open drains which connect to perimeter drains. Each perimeter drain is equipped with an oil interceptor and an isolation valve.

The schedules specify the changes made to the permit.

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

<b>Status log of the permit JB3107XB (formerly DB3406CS) <sup>Note 1</sup></b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application EPR/DB3406CS/A001	07/08/2015	Duly Made Application for an environmental permit for the management of extractive mining waste
Additional Information received	16/10/2015	Information on typical weld joints
		Lining membrane method statement
Permit determined EPR/DB3406CS	03/11/2015	Permit issued to Wingas Storage UK Limited
Variation application EPR/DB3406CS/V002 (variation and consolidation with EPR/DB3504XY) <sup>Note 1</sup>	20/12/2016	Duly made Application to vary and update the permit to modern conditions
Variation determined EPR/DB3406CS/V002	20/03/2018	Varied and consolidated permit issued in modern condition format

<b>Status log of the permit JB3107XB (formerly DB3406CS) <sup>Note 1</sup></b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Notified of change of Registered office	26/11/2018	Registered office changed to 20 Triton Street, London, NW1 3BF
Variation issued EPR/DB3406CS/V003	04/12/2018	Varied permit issued to Wingas Storage UK Limited
Transfer application EPR/JB3107XB/T001 (full transfer of permit EPR/DB3406CS)	05/02/2020	Duly Made Application to transfer the permit in full to Angus Energy Weald Basin No.3 Limited
Transfer determined EPR/JB3107XB/T001	06/05/2020	Full transfer of permit complete
Variation application EPR/JB3107XB/V002 (variation and consolidation)	21/04/2021	Duly made Application to undertake a gas refining activity and to operate combustion plant
Schedule 5 Notice request for information sent 09/07/2021	17/09/2021	Response received Waste management and technical plans
Schedule 5 Notice request for information sent 12/08/2021	17/09/2021	Response received  Refining BAT Conclusions Technical standards detailed in response to the information notice to demonstrate that relevant BAT Conclusions are met for the refining activities
Schedule 5 Notice request for information sent 23/08/2021	17/09/2021	Response received MCP, operating techniques, H1 for flare operation, noise assessment, site plan and non-technical summary
Request for information sent 24/09/2021	08/11/2021	Response received Noise assessment
Request for information sent 10/11/2021	10/11/2021	Response received Noise assessment measurements including updated modelling files
Request for clarification on Schedule 5 Notice responses Sent 29/09/2021	13/10/2021	Response received Refining BAT Conclusions 4, 6, 37, 49 and 51. SR2018 No 7
Request for information sent 29/09/2021	13/10/2021	Response received Odour
Request for clarification on Schedule 5 Notice response Sent 26/10/2021	08/11/2021	Response received Refining BAT Conclusion 49
Request for information sent 16/11/2021	23/11/2021	Response received Flare design and operation
Request for information sent 22/11/2021	23/11/2021	Noise assessment clarification
Information received	01/12/2021	Bridging document
Request for information sent 09/12/2021	09/12/2021	Flare – flame temperature response

<b>Status log of the permit JB3107XB (formerly DB3406CS) <sup>Note 1</sup></b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Schedule 5 Notice request for information sent 09/12/2021	17/12/2021	Response received Revised noise impact assessment (2021 update) including modelling files
Information received	17/01/2022	Refining BAT Conclusion 49
Request for information sent 07/02/2022	08/02/2022	Noise impact assessment clarification
Information received	22/02/2022	Revised noise impact assessment (February 2022) including modelling files, source calculations and sound power evidence
Request for information sent 28/02/2022	08/03/2022	Revised noise impact assessment (March 2022) including updated mitigation for compressors, modelling files and source calculations
Information received	21/03/2022	Site plans and commissioning definition following operator review of draft
Variation determined and consolidation issued EPR/JB3107XB/V002 (Billing reference FP3201LL)	22/03/2022	Varied and consolidated permit issued in modern format
Note 1: Permit EPR/DB3504XY consolidated with EPR/DB3406CS on 20/03/2018. Full transfer of permit EPR/DB3406CS to Angus Energy Weald Basin No.3 Limited 06/05/2020, new permit number EPR/JB3107XB.		

<b>Status log of the permit EPR/DB3504XY <sup>Note 1</sup></b>		
Application EPR/DB3504XY/A001	02/09/2015	Duly made Application for an environmental permit for the management of extractive mining waste and waste gas.
Additional information received	11/01/2016	Response to schedule 5 notice sent on 24/11/2015 requesting for further information on the proposed flare, proposed monitoring programme and amendments to the waste management plan.
Additional information received	03/03/2016	Further responses to Schedule 5 notice
		Revised Waste Management Plan (Version 3)
		Flare Appraisal and design (revision 2)
Additional information received	17/03/2016	Dispersion modelling assessment of the impact of gas flaring at Saltfleetby B well site on local air quality
Additional information received	23/03/2016	Air dispersion model data input files
Additional information received	21/04/2016	Further response to Schedule 5 notice
		Flaresim report with tip data
Additional information received	17/05/2016	Further response to Schedule 5 notice
		Technical Note: Well clean up procedure using a flare – TN001
Original permit determined EPR/DB3504XY	03/10/2016	Permit issued to Angus Energy Weald Basin No.3 Limited.

Application EPR/DB3406CS/V002 (variation and consolidation of EPR/DB3504XY with EPR/DB3406CS) <sup>Note 1</sup>	Duly made 20/12/2016	Application to vary and update the permit to modern conditions.
Variation determined EPR/DB3406CS/V002	20/03/2018	Varied and consolidated permit issued in modern condition format.
Note 1: Permit EPR/DB3504XY consolidated with EPR/DB3406CS on 20/03/2018. Full transfer of permit EPR/DB3406CS to Angus Energy Weald Basin No.3 Limited 06/05/2020, new permit number EPR/JB3107XB. Refer to status log above.		

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2016

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

### Permit number

EPR/JB3107XB

### Issued to

**Angus Energy Weald Basin No.3 Limited** (“the operator”)

whose registered office is

#### Westpoint

**4 Redheughs Rigg**

**South Gyle**

**Edinburgh**

**EH12 9DQ**

company registration number **SC055329**

to operate a regulated facility at

#### Saltfleetby Wellsites

**Saddleback Road**

**Howdales**

**South Cockerington**

**Louth**

**LN11 7DJ**

to the extent set out in the schedules.

The notice shall take effect from 22/03/2022

Name	Date
Anne Lloyd	22/03/2022

Authorised on behalf of the Environment Agency

## **Schedule 1**

### Application made by the operator

The following conditions have been varied by the consolidated permit as a result of the application made by the operator:

Permit conditions: 1.2.1, 1.3.1, 2.3.1, 3.5.1, 4.2.2, 4.3.5

Tables S1.1, S1.2, S1.3, S1.4, S2.1, S3.1, S3.4, S4.2, S4.3 and S4.4

Schedule 6, Interpretations

Schedule 7, Site plan

Permit condition 1.5.1 has been added by the consolidated permit as a result of the application made by the operator.

Table S3.5 has been deleted by the consolidated permit as a result of the application made by the operator.

### Environment Agency initiated variation

The following conditions were varied as a result of an Environment Agency initiated variation:

Permit conditions: 1.3.1, 2.3.6, 3.1.1, 3.1.3 and 3.5.1

Table S1.1

Schedule 5, Notifications

Schedule 6, Interpretations

Table S3.2 added, former tables S3.2 to S3.4 renumbered to S3.3 to S3.5 (S3.5 is then deleted, see above).

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.



# Permit

## The Environmental Permitting (England and Wales) Regulations 2016

### Permit number

**EPR/JB3107XB**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/JB3107XB/V002 authorising,

**Angus Energy Weald Basin No.3 Limited** (“the operator”),

whose registered office is

**Westpoint**

**4 Redheughs Rigg**

**South Gyle**

**Edinburgh**

**EH12 9DQ**

company registration number **SC055329**

to operate an installation at

**Saltfleetby Wellsites**

**Saddleback Road**

**Howdales**

**South Cockerington**

**Louth**

**LN11 7DJ**

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

Name	Date
Anne Lloyd	22/03/2022

Authorised on behalf of the Environment Agency

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, 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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7), 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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7), 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.

## **1.5 Climate change**

- 1.5.1 The operator shall review and if appropriate update, at least every 4 years, the climate change adaptation risk assessment submitted in accordance with IC6 in table S1.3 of this permit, and shall update the written management system as appropriate.

## **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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7), the activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 The operator shall:
- (a) review the waste management plan at least every five years from the date of initial approval and submit any written revisions to the Environment Agency for approval.
  - (b) implement the approved waste management plan from the date of approval, unless otherwise agreed in writing by the Environment Agency
- 2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
  - (b) the composition of the waste;
  - (c) the handling requirements of the waste;
  - (d) the hazardous property associated with the waste, if applicable; and
  - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

## **2.4 Improvement programme**

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

## **2.5 Pre-operational conditions**

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

# **3 Emissions and monitoring**

## **3.1 Emissions to water, air or land**

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points 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 Total annual emissions from the emission point(s) set out in schedule 3 tables S3.1 of a substance listed in schedule 3 table S3.3 shall not exceed the relevant limit in table S3.3.
- 3.1.4 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; and
- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

## **3.3 Odour**

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

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour; and
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## **3.4 Noise and vibration**

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

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration; and
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

## 3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1; and
  - (b) ambient air monitoring specified in table S3.4.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 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 this permit; and
  - (b) regular checking, at an appropriate frequency, that such systems and equipment are serviceable and correctly used.
- 3.5.5 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 table S3.1 unless otherwise agreed in writing by the Environment Agency.
- 3.5.6 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 may specify; 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.
- 3.5.7 On a monthly basis; the Operator shall analyse the flare feed gas. The analysis shall include speciation and concentration of organic substances listed in schedule 3 table S3.1. A report of the analysis shall be submitted to the Environment Agency within 28 days of completion of each analysis.

## 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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7), 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 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
  - (i) inform the Environment Agency,
  - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
  - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
  - (i) inform the Environment Agency, and
  - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR7), 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 proposes to make an amendment to the approved waste management plan, which 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 implementing the amended waste management plan in place of the original; and
  - (b) the notification shall contain a description of the proposed amendment.
- 4.3.8 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.

## **4.4 Interpretation**

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

# Schedule 1 – Operations

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
AR1	<b>Section 1.2 Part A(1)(a)</b> Refining gas where this is likely to involve the use of 1,000 or more tonnes of gas in any 12-month period.	Processing of extracted gas, incorporating separation, compression and dehydration prior to export from the site to the NTS.	From the receipt of gas at the well-head to the export of gas to the NTS.
AR2	<b>Section 1.2 Part A(1)(e)(i)</b> The loading, unloading, handling or storage of, or the physical, chemical or thermal treatment of crude oil.	Production of fluids extracted from the resource formation, phase separation and storage of products (crude oil) and waste prior to onward transport.	<p>From storage of production condensate to the dispatch of condensate and waste.</p> <p>Annual throughput shall not exceed 5,000 m<sup>3</sup>/year (Refinery BAT Conclusion 52).</p> <p>Condensate shall be stored in vessels which are of sufficient strength and structural integrity to ensure that it is unlikely to burst or leak in its ordinary use.</p> <p>Any road tanker loading systems shall be fully contained and the delivery system shall be fitted with dry break couplings.</p> <p>During loading of road tankers, the road tanker shall be back vented to the bulk storage tank, or routed to a suitable vent treatment system.</p> <p>Provisions shall be made to minimise the emissions of non-methane volatile organic compounds (NMVOC) and methane from the condensate storage tank vent.</p>

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
AR3	<b>Section 5.1 Part A(1)(a)</b> The incineration of hazardous waste in a waste incineration plant or waste co-incineration plant with a capacity exceeding 10 tonnes per day.	Flaring of waste gas from onshore oil and gas production activities using an enclosed ground flare.	From the receipt of waste gas into the enclosed flare to the release of waste combustion gases.
<b>Directly Associated Activity</b>			
AR4	Use of produced gas and commercial grade natural gas in four gas engines for gas compression and to generate electricity.	Combustion of a mixture of produced gas and commercial grade natural gas in five gas engines each at 2.17 MWth.	From the receipt of gas into the gas engines to the release of waste combustion gases to air at emission points A2 to A5 and A8.
AR5	Processing of natural gas during the well testing phase only.	Involves the processing of the extracted natural gas during the well testing activity operations.	From well test spread and associated pipe-work to the flare system.
AR6	Two back-up diesel generators.	Two diesel back-up generators each at 1 MWth for start-up and shut-down only.	From receipt of diesel into the generators to the release of waste combustion gases to air at emission points A6 and A7.
AR7	Surface water drainage system.	Handling and storage of site surface water.	From collection of surface water to the discharge of uncontaminated surface water off-site at emission points W1 to W3.

**Table S1.1 activities**

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
Activity reference	Description of activities for waste operations		Limits of activities
AR8 Mining waste operation	A mining waste operation for the management of hazardous and non-hazardous extractive liquid and solid waste and gas, resulting from the commissioning of a borehole.		<p>Permitted waste types shall conform to the description in the approved waste management plan.</p> <p>The storage of extractive waste is limited to temporary storage in secure containment as part of the collection and transportation of waste from site.</p> <p>The activities shall be limited to the following extractive waste types – natural waste gas, produced fluid/gas condensate, nitrogen and clean up fluid.</p> <p>The activities shall be limited to those described in the approved Waste Management Plan (WMP) submitted in accordance with PO 04 in table S1.4 of this permit.</p>
AR9 Mining waste operation	<p>A mining waste operation for the management of hazardous and non-hazardous extractive solid and liquid waste and gas, from prospecting for mineral resources not including a waste facility resulting from borehole drilling operation.</p> <p>The management of extractive waste generated by well decommissioning and restoration.</p>		<p>Permitted waste types shall conform to the description in the approved waste management plan.</p> <p>The storage of extractive waste is limited to temporary storage in secure containment as part of the collection and transportation of waste from site.</p> <p>The activities shall be limited to the following extractive waste types – non-hazardous water based drilling muds, non-hazardous spent conditioning spacer, non-hazardous spent hydrochloric acid and calcium chloride, non-hazardous excess solidified cement and gas, and natural gas should it arise.</p> <p>Drilling additives shall be approved in writing by the Environment Agency prior to use.</p> <p>There shall be no re-injection of produced waters.</p>

**Table S1.1 activities**

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
			<p>There shall be no venting of gas.</p> <p>The activities shall be limited to those described in the approved Waste Management Plan (WMP) submitted in accordance with PO 04 in table S1.4 of this permit.</p>
AR10	<p>The management of extractive waste from production activities, not involving a waste facility.</p> <p>The management of extractive waste generated from well work-overs and by well decommissioning.</p>		<p>Permitted waste types shall conform to the description in the approved Waste Management Plan (WMP) submitted in accordance with PO 04 in table S1.4 of this permit.</p> <p>Drilling additives shall be approved in writing by the Environment Agency prior to use.</p>

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Variation application EPR/JB3107XB/V002	Site Condition and Baseline Report (60625790-ACM-XX-00-RP-SCR-R03, April 2021).	21/04/2021
Variation application EPR/JB3107XB/V002	Site Management Plan (60625790-XX-00-RP-MMP-R02, February 2021)	21/04/2021
Variation application EPR/JB3107XB/V002	Impact Assessment Report and associated appendices (60625790-ACM-XX-00-RP-IAR-R03, September 2021)	17/09/2021
Variation application EPR/JB3107XB/V002	Resource Management Plan (60625790-ACM-XX-00-RP-RMP-R02, 08 February 2021)	21/04/2021
Variation application EPR/JB3107XB/V002	Technical standards detailed in response to the Schedule 5 Notice request for information sent 12/08/2021. Best available techniques (BAT) as described in BAT Conclusions under Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions for the Refining of Mineral Oil and Gas.	17/09/2021
Variation application EPR/JB3107XB/V002	Technical standards detailed in response to BAT Conclusions 4, 6, and 51. Odour controls	13/10/2021
Variation application EPR/JB3107XB/V002	Flare operation (60625790-ACM-XX-00-RP-SCHED5-R01-Flare, dated 22 November 2021)	23/11/2021
Variation application EPR/JB3107XB/V002	Bridging document (60625790-ACM-XX-00-RP-BRID-R01, dated 30 November 2021)	01/12/2021
Variation application EPR/JB3107XB/V002	Technical standards detailed in response to BAT Conclusion 49.	17/01/2022
Variation application EPR/JB3107XB/V002	Operational Noise Assessment (2021 Update), dated 04 March 2022, including noise mitigation measures (i.e. height and location of acoustic barriers) and site layout.	08/03/2022
Variation application EPR/JB3107XB/V002	Approved noise management plan submitted in accordance with PO 03 in table S1.4 of this permit.	-
Variation application EPR/JB3107XB/V002	Approved waste management plan submitted in accordance with PO 04 in table S1.4 of this permit.	-
Variation application EPR/JB3107XB/V002	Approved technical plan submitted in accordance with PO 05 in table S1.4 of this permit.	-
Variation application EPR/JB3107XB/V002	Approved surface water management and surface water monitoring plans submitted in accordance with PO 06 in table S1.4 of this permit.	-
Variation application EPR/JB3107XB/V002	Approved diffuse VOC monitoring plan submitted in accordance with PO 07 in table S1.4 of this permit.	-

Table S1.3 Improvement programme requirements		
Ref.	Operation	Date
IC1 to IC4 have been removed as they have been superseded and are no longer relevant to the activities being undertaken.		
IC5	<p><b>Commissioning of the gas refining activity</b></p> <p>The operator shall submit a written report to the Environment Agency on the commissioning of the gas refining activity, defined as AR1 and AR2 in table S1.1 of this permit. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions and confirm that the Environmental Management System (EMS) has been updated accordingly.</p>	Within four months of the completion of commissioning <sup>Note 2</sup> of activities AR1 and AR2
IC6	<p><b>Climate change adaptation</b></p> <p>The operator shall submit for approval by the Environment Agency, a climate change adaptation risk assessment in accordance with Environment Agency guidance on .gov.uk.</p>	30/06/2022
IC7	<p><b>Noise (initial phase)</b> <sup>Note 1</sup></p> <p>The operator shall undertake a noise assessment during initial phase operations in accordance with the procedures given in BS4142:2014+A1:2019 (Rating industrial noise affecting mixed residential and industrial areas) and BS7445: 2003 (Description and measurement of environmental noise) or other methodology as agreed with the Environment Agency in order to validate the assessment provided with application EPR/JB3107XB/V002. The assessment shall include, but not be limited to:</p> <ul style="list-style-type: none"> <li>• A review of the noise sources from the facility. Where any noise source(s) are identified as exhibiting tonal contributions, they shall be quantified by means of frequency analysis;</li> <li>• A review of noise levels from static plant;</li> <li>• A review of acoustic design targets and sound reduction indices;</li> <li>• Considerations of on-site vehicle movements; and</li> <li>• Comparison with the model predictions in the updated noise impact assessment dated March 2022.</li> </ul> <p>A report shall be provided to the Environment Agency detailing the findings of the assessment, along with a timetable for implementing any identified improvements.</p> <p>The operator shall implement the improvements identified to a timetable agreed with the Environment Agency.</p>	Within three months of the completion of commissioning <sup>Note 2</sup> of activities AR1 and AR2

<b>Table S1.3 Improvement programme requirements</b>		
<b>Ref.</b>	<b>Operation</b>	<b>Date</b>
IC8	<p><b>Noise (full-scale)</b></p> <p>The operator shall undertake a noise assessment during full-scale operations in accordance with the procedures given in BS4142:2014+A1:2019 (Rating industrial noise affecting mixed residential and industrial areas) and BS7445: 2003 (Description and measurement of environmental noise) or other methodology as agreed with the Environment Agency in order to validate the assessment provided with application EPR/JB3107XB/V002. The assessment shall include, but not be limited to:</p> <ul style="list-style-type: none"> <li>• A review of the noise sources from the facility. Where any noise source(s) are identified as exhibiting tonal contributions, they shall be quantified by means of frequency analysis;</li> <li>• A review of noise levels from static plant;</li> <li>• A review of acoustic design targets and sound reduction indices;</li> <li>• Considerations of on-site vehicle movements; and</li> <li>• Comparison with the model predictions in the updated noise impact assessment dated March 2022.</li> </ul> <p>A report shall be provided to the Environment Agency detailing the findings of the assessment, along with a timetable for implementing any identified improvements.</p> <p>The operator shall implement the improvements identified to a timetable agreed with the Environment Agency.</p>	<p>Within three months of the full-scale operations of activities AR1 and AR2</p>
<p>Note 1: Refer to paragraphs 7.7 and 7.8 of the noise impact assessment dated March 2022 for initial phase description.</p> <p>Note 2: Commissioning definition in Schedule 6 (Interpretation) of this permit.</p>		

<b>Table S1.4 Pre-operational measures for future development</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO 01 complete		
PO 02	Commissioning of the gas refining activities	<p>Prior to the commencement of commissioning of the gas refining activities, defined as AR1 and AR2 in table S1.1 of this permit, the operator shall submit to the Environment Agency, and obtain the Environment Agency's written approval to it, a written commissioning plan, including timelines for completion, for approval by the Environment Agency.</p> <p>The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions.</p> <p>Commissioning shall be carried out in accordance with the commissioning plan as approved.</p>



Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO 03	Noise management plan (NMP)	<p>Prior to the commencement of commissioning of the gas refining activities and the four gas engines, defined as AR1, AR2 and AR4 in table S1.1 of this permit, the operator shall submit to the Environment Agency for approval a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration, following the Environment Agency guidance at:  <a href="https://www.gov.uk/government/publications/noise-and-vibration-management-environmental-permits">https://www.gov.uk/government/publications/noise-and-vibration-management-environmental-permits</a>.</p> <p>The plan shall include:</p> <ul style="list-style-type: none"> <li>• The three five-metre high acoustic barriers;</li> <li>• The acoustic design target for the enclosure housing the G3512 generators, including sound from the exhausts and compressors, which shall be less than, or equal to, 71 dB LAeq, 5 minute at 1 m and 64 dB LAeq, 5 minute at 10 m from each of the enclosure façades and roof; and</li> <li>• The minimum sound reduction indices of the enclosures (for the engines) and muffler (for the exhausts).</li> </ul> <p>The operator shall implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.</p>
PO 04	Waste management plan (WMP)	<p>Prior to the commencement of commissioning of the gas refining activities and the four gas engines, defined as AR1, AR2 and AR4 in table S1.1 of this permit, the operator shall submit to the Environment Agency for approval an updated waste management plan.</p> <p>The waste management plan shall include, but not be limited to:</p> <ul style="list-style-type: none"> <li>• A comprehensive waste management matrix;</li> <li>• Fluids and chemicals to be used during drilling activities;</li> <li>• Storage and containment arrangements and how they comply with CIRIA C736; and</li> <li>• The integrity of the tertiary lining system.</li> </ul> <p>The operator shall implement the approved waste management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.</p>
PO 05	Technical plan	<p>Prior to the commencement of commissioning of the gas refining activities and the four gas engines, defined as AR1, AR2 and AR4 in table S1.1 of this permit, the operator shall submit to the Environment Agency for approval an updated technical plan.</p> <p>The operator shall implement the approved technical plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.</p>
PO 06	Surface water management and Surface water monitoring plans	<p>Prior to the commencement of commissioning of the gas refining activities and the four gas engines, defined as AR1, AR2 and AR4 in table S1.1 of this permit, the operator shall submit to the Environment Agency for approval updated surface water management and surface water monitoring plans.</p> <p>The operator shall implement the approved plans, from the date of approval, unless otherwise agreed in writing by the Environment Agency.</p>

<b>Table S1.4 Pre-operational measures for future development</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
PO 07	BAT Conclusion 6	<p>Prior to the commencement of commissioning of the gas refining activities, defined as AR1 and AR2 in table S1.1 of this permit, the operator shall submit a diffuse VOC monitoring plan to the Environment Agency for written approval. This shall include but not be limited to:</p> <ul style="list-style-type: none"> <li>• The nature of the material handled;</li> <li>• The sources of emissions;</li> <li>• Justification of the monitoring techniques selected; and</li> <li>• How the monitoring data will be recorded and reviewed.</li> </ul> <p>The plan shall take into account the appropriate techniques for VOC monitoring specified in BAT conclusion 6 for the Refining of Mineral Oil and Gas. The operator shall implement the approved plan and produce and submit an annual report on the results of the monitoring undertaken under the plan.</p>
PO 08	Separator containment	<p>Prior to the commencement of commissioning of the gas refining activities, defined as AR1 and AR2 in table S1.1 of this permit, the operator shall provide evidence to demonstrate that containment of the condensate separator is provided by a CIRIA compliant bund.</p>

## Schedule 2 – Waste types, raw materials and fuels

<b>Table S2.1 Raw materials and fuels</b>	
<b>Raw materials and fuel description</b>	<b>Specification</b>
Diesel for back-up generators	Not exceeding 0.1% w/w sulphur content

Non-extractive wastes are not accepted as part of the permitted activities.

## Schedule 3 – Emissions and monitoring

Emission point ref. & location <small>Note 1</small>	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1	Emergency gas flare	Flare gas feed rate	5,000 Nm <sup>3</sup> /hour  Reference conditions 273K and 101.3 kPa	-	Continuous	As approved in writing with the Environment Agency
A1	Emergency gas flare	Video feed with a screen time display of flare	-	-	Continuous while in operation	As approved in writing with the Environment Agency
A2	Compressor generator MCP1	-	-	-	-	-
A3	Compressor generator MCP2	-	-	-	-	-
A4	Power generator MCP3 powered by produced gas	-	-	-	-	-
A5	Power generator MCP4 powered by produced gas	-	-	-	-	-
A6	Back-up diesel generator MCP5	-	-	-	-	-

<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> <small>Note 1</small>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
A7	Back-up diesel generator MCP6	-	-	-	-	-
A8	Booster compressor generator MCP7	-	-	-	-	-

Note 1: Emission points on Plan 3 in Schedule 7 of this permit.

<b>Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> <small>Note 1</small>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W1	Uncontaminated surface water	Note 2	Note 2	Note 2	Note 2	Note 2
W2	Uncontaminated surface water	Note 2	Note 2	Note 2	Note 2	Note 2
W3	Uncontaminated surface water	Note 2	Note 2	Note 2	Note 2	Note 2

Note 1: Emission points on Plan 3 in Schedule 7 of this permit.  
Note 2: Emission limits and monitoring requirements shall be subject to the outcome of PO 06 in table S1.4 of this permit.

<b>Table S3.3 Annual limits</b>		
<b>Substance</b>	<b>Medium</b>	<b>Limit (including unit)</b>
Sulphur dioxide	Air	500 kg (as SO <sub>2</sub> ) in a year
Oxides of Nitrogen	Air	5,000 kg (as NO <sub>2</sub> ) in a year

<b>Table S3.4 Ambient air monitoring requirements</b>				
<b>Location or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Air quality monitoring at four locations <sup>Note 1</sup>	Oxides of Nitrogen	Weekly	Diffusion tubes as per BS EN 13528 (Parts 1-3 2002/3)	-
Air quality monitoring at four locations <sup>Note 1</sup>	Sulphur Dioxide	Weekly	Diffusion tubes as per BS EN 13528 (Parts 1-3 2002/3)	-
Air quality monitoring at four locations <sup>Note 1</sup>	Carbon monoxide	Weekly	Spot sampling	-
Air quality monitoring at four locations <sup>Note 1</sup>	Methane	Weekly	Spot sampling	-
Air quality monitoring at four locations <sup>Note 1</sup>	Non- methane volatile organic compounds	Weekly	ISO 16017; or EN 1466; or EN 13528	-
Note1: As shown on commissioning monitoring site plan in Appendix 3 of Flare appraisal and design report WSUKL/SFB-7X/EA/WC/FAD-001 Rev 2.				

## Schedule 4 – Reporting

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.5.1.	A1	Monthly or as agreed in writing by the Environment Agency	20/03/2018
Ambient air monitoring Parameters as required by condition 3.5.1	DM1	Monthly or as agreed in writing by the Environment Agency	20/03/2018

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Waste gas	Tonnes
Gas production	m <sup>3</sup>

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Water usage	Annually	m <sup>3</sup>
Energy usage	Annually	MWh
Total mass release of oxides of sulphur	Annually	Tonnes
<u>Operation of the emergency gas flare</u> <u>Emission point A1</u> <u>BAT Conclusions 55 and 56</u> <ul style="list-style-type: none"> <li>• Number of flaring events (minutes and dates of operation and cumulative hours).</li> <li>• Materials flared/gas composition and volume.</li> <li>• Calculation of gas burnt and associated emissions.</li> <li>• Reasons for flaring (routine, non-routine, nature of plant operations).</li> <li>• Any actions taken in the previous 12 months to minimise the impact of flaring.</li> </ul>	Annually	Durations (minutes) No of occasions and cumulative hours for current calendar year
<u>Operation of the emergency gas flare</u> <u>Emission point A1</u> The operator shall carry out a human health and ecological impact assessment of emissions to air from the emergency gas flare at emission point A1. An assessment shall be made of the impact of relevant parameters against the relevant environmental standards. In the event that the assessment shows that an environmental standard can be exceeded, the report shall include proposals for further investigative work.	Where operation of the emergency gas flare exceeds 876 hours/year	hours

<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Form air 1 or other form as agreed in writing by the Environment Agency	20/03/2018
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	20/03/2018
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	20/03/2018
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	22/03/2022



# 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	

<b>(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</b>	
<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 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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

<b>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
Measures taken, or intended to be taken, to stop the emission	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

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

<b>(d) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
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.

“approved waste management plan” means a plan of the type described in Article 5(1) of Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006 on the management of waste from extractive industries and amending Directive 2004/35/EC, approved as part of the grant or variation of an environmental permit and as revised from time to time.

“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.

“Commissioning” means all activities associated with dry commissioning, leak testing and validation of design parameters and gas quality as defined in the Commissioning Plan, provided in response to PO 02 in table S1.4 of this permit, or otherwise agreed in writing with the Environment Agency.

“Competent Authority” means, in relation to –

- (a) London, the London Fire and Emergency Planning Authority;
- (b) an area where there is a fire and civil defence authority, that authority;
- (c) the Isles of Scilly, the Council of the Isles of Scilly;
- (d) an area in the rest of England, the county council for that area, or where there is no county council for that area, the district council for that area.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

“EA TGN M5” means The guidance with that title published on Gov.UK on August 2018, or any subsequent version which makes only editorial changes.

“emissions to land” includes emissions to groundwater.

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

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

“exploration” means activities carried out to provide information about geological structures and the presence or absence of gas reserves together with assessments to determine whether the reservoir development is economically feasible.

“extractive waste” means waste resulting from the prospecting, extraction, treatment and storage of mineral resources and the working of quarries, excluding waste which does not directly result from these operations.

“Flaring” means a technique used where quantities of flammable gas are burnt in a controlled manner, without use or recovery of the heat generated. The gas flow is ignited under controlled conditions.

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

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

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

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

“inert waste” means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater. All of the criteria listed in Article 1 of Commission Decision 2009/359 must be fulfilled.

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

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

“Medium Combustion Plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“mining waste facility” means a waste facility as defined in Article 3(15) of Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006 on the management of waste from extractive industries and amending Directive 2004/35/EC, where a mining waste operation is carried out.

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

“prospecting” means prospecting as defined by article 3(21) of the Mining Waste Directive as ‘the search for mineral deposits of economic value, including sampling, bulk sampling, drilling and trenching, but excluding any works required for the development of such deposits, and any activities directly associated with an extractive operation.

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

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

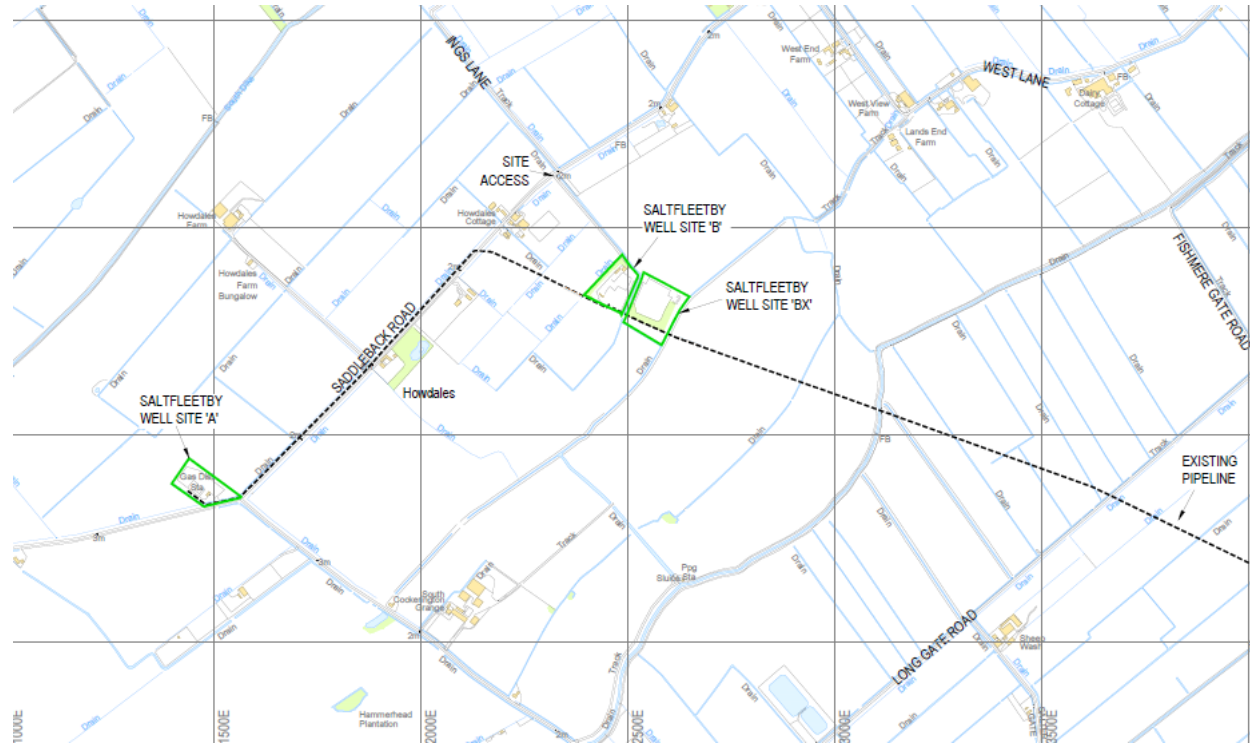
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

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

“year” means calendar year ending 31 December.

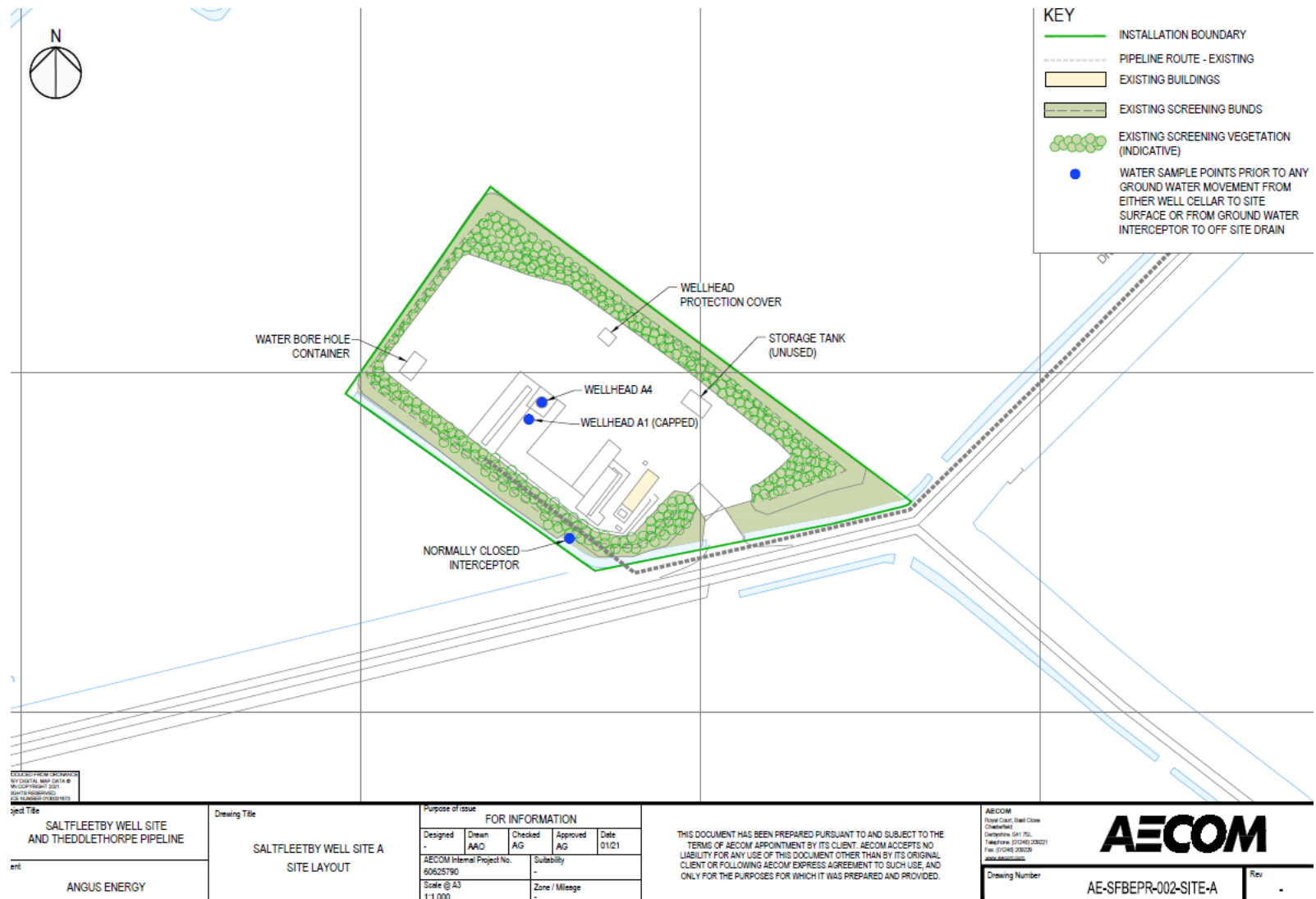
# Schedule 7 – Site plan

## Plan 1: Overview of the permitted site



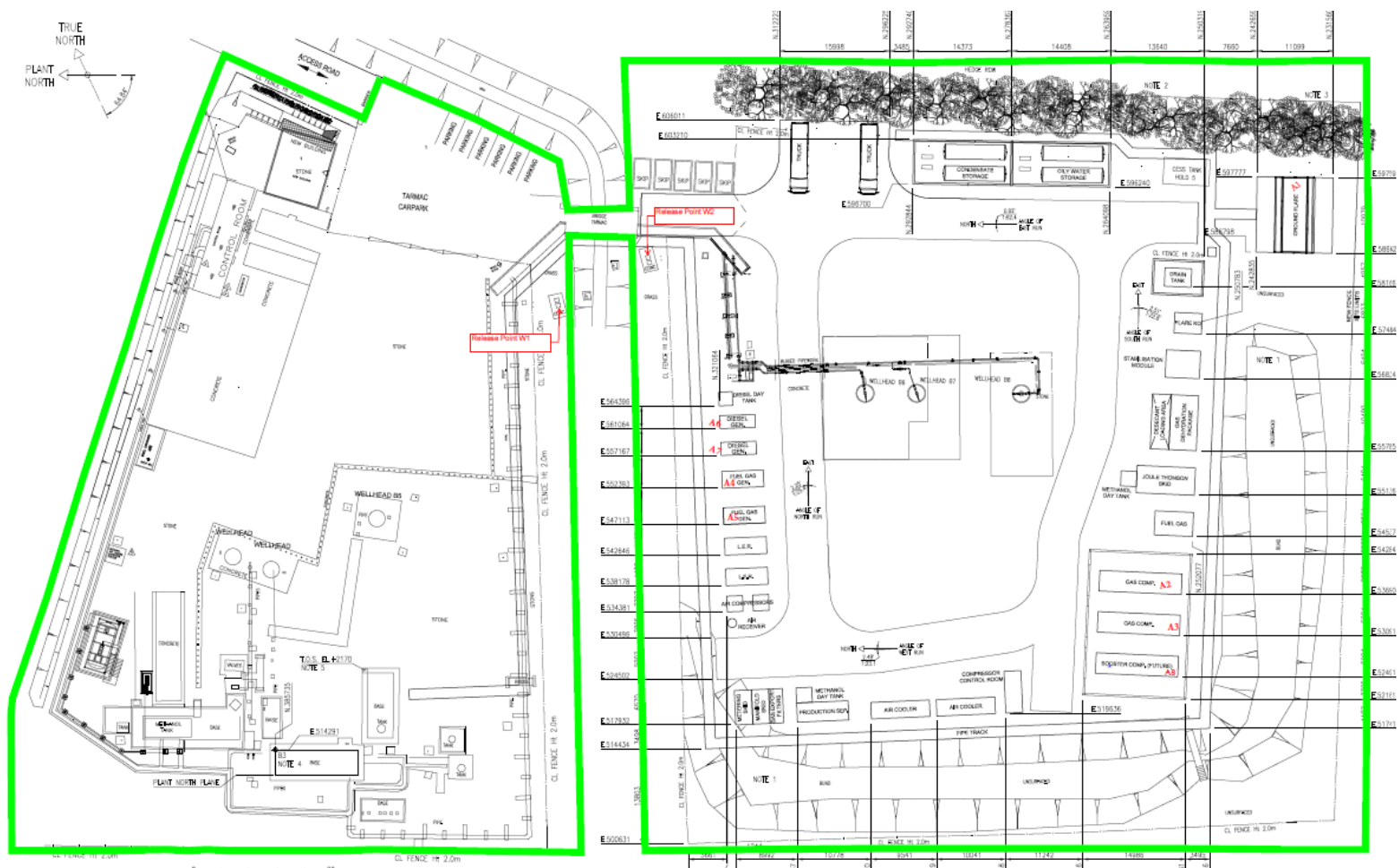
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## Plan 2: Saltfleetby well-site A (SFA)



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# Plan 3: Saltfleetby well-site B (SFB) and SFB extension



- NOTES**
1. EARTH BANKS ARE NOT AS BUILT
  2. TREE LINE LOCAL TO STORAGE TANKS HAS BEEN AS-BUILT
  3. EXISTING BOUNDARY FENCE IS SHOWN MOVED BEYOND TREE LINE
  4. DATUM B3 AS PER SITE B ISOMETRICS: 03891000641 REV 3 & 03891000652 REV 3
  5. T.O.S. ELEVATION SET AS PER DRAWING No. GC513-ML-001 REV 1

- HOLDS**
1. PACKAGE GENERAL ARRANGEMENTS
  2. SITE FENCE / BOUNDARY LIMITS
  3. EXTENT OF EARTHWORKS
  4. FOUNDATION DESIGN
  5. CESS TANK FUTURE USE
  6. EQUIPMENT TAG NUMBERS

PRELIMINARY

DATE		BY	CHK	APP	SCALE	PROJECT NO.	DRAWING NO.	REV
14/09/21		PRELIMINARY	OK	AW	A1	3793	3793-AEL-PH-LAY-001	P1
17/11/20		PRELIMINARY	OK	AW	A1	3793		
25/07/20		PRELIMINARY	OK	AW	A1	3793		



FILE  
ANGUS ENERGY  
SALTFLEETBY SITE B  
EQUIPMENT LAYOUT DRAWING

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END OF PERMIT

Permit number  
EPR/JB3107XB



## Emissions to Air Reporting Form

**Permit number:** [EPR/AB1234CB]

**Operator:** [A Company Name Limited]

**Facility name:** [Unit A, Anytown]

**Emissions to Air Reporting Form: air 1 20/03/2018**

Reporting of emissions to air for the period from [DD/MM/YY] to [DD/MM/YY]

<b>Emission point</b>	<b>Substance / parameter</b>	<b>Emission Limit Value</b>	<b>Reference period</b>	<b>Test method <sup>1</sup></b>	<b>Result <sup>2</sup></b>	<b>Sample dates and times <sup>3</sup></b>	<b>Uncertainty <sup>4</sup></b>
[e.g. A1]	[e.g. Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )]	[e.g. 200 mg/m <sup>3</sup> ]	[e.g. daily average]	[e.g. BS EN 14181]	[State result]	[State relevant dates and time periods]	[State uncertainty if not 95% confidence interval]

**Signed:** [Name]

**Date:** [DD/MM/YY]

(Authorised to sign as representative of the operator)

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**Guidance for use:** Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- <sup>1</sup> Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- <sup>2</sup> Give the result as 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, give the result as the 'minimum to maximum' of the measured values.
- <sup>3</sup> For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- <sup>4</sup> Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

## Water Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Water Usage Reporting Form: water usage 1, 20/03/2018

Reporting of water usage for the year [YYYY]

Water source	Water usage (m <sup>3</sup> )	Specific water usage (m <sup>3</sup> /unit) <sup>2</sup>
Mains water	[insert annual usage in m <sup>3</sup> where mains water is used]	[insert annual usage in m <sup>3</sup> /unit where mains water is used]
Site borehole	[insert annual usage in m <sup>3</sup> where water is used from a site borehole]	[insert annual usage in m <sup>3</sup> /unit where water is used from a site borehole]
River abstraction	[insert annual usage in m <sup>3</sup> where abstracted river water is used]	[insert annual usage in m <sup>3</sup> /unit where abstracted river water is used]
Other – [specify other water source where applicable. Add extra rows where needed]	[insert annual usage in m <sup>3</sup> where applicable]	[insert annual usage in m <sup>3</sup> /unit where applicable]
Total water usage	[insert total annual water usage in m <sup>3</sup> ]	[insert total annual water usage in m <sup>3</sup> /unit]

<b>Operator's comments</b>

<b>Operator's comments</b>

**Signed:**     *[Name]*

**Date:**       *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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**Guidance for use:** Use this form to report your annual water usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

## Energy Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Energy Usage Reporting Form: energy 1, 20/03/2018

Reporting of energy usage for the year [YYYY]

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/unit) <sup>2</sup>
Electricity imported as delivered - source [specify source, e.g. supplied from the national grid]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Electricity imported as primary energy 1 – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Natural gas	<i>[insert annual consumption in MWh where natural gas is used]</i>	<i>[insert annual consumption in MWh/unit where natural gas is used]</i>
Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh]	<i>[insert annual consumption in MWh where gas oil is used]</i>	<i>[insert annual consumption in MWh/unit where gas oil is used]</i>
Imported heat	<i>[insert annual consumption in MWh where heat is imported]</i>	<i>[insert annual consumption in MWh/unit where heat is imported]</i>
Other – <i>[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]</i>	<i>[insert annual consumption in MWh where applicable]</i>	<i>[insert annual consumption in MWh/unit where applicable]</i>
Electricity exported	<i>[insert annual production in MWh where electricity is exported]</i>	Not applicable
Heat exported	<i>[insert annual production in MWh where heat is exported]</i>	Not applicable

<b>Operator's comments</b>

**Signed:**     *[Name]*

**Date:**       *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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**Guidance for use:** Use this form to report your annual energy usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

<sup>1</sup> Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.

<sup>2</sup> Divide energy consumption by an appropriate unit of raw material processed or product output.

# Other Performance Parameters Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]  
22/03/2022

Other Performance Parameters Reporting Form: performance 1,

Reporting of other performance parameters for the period from [DD/MM/YY] to [DD/MM/YY]

Parameter	Units
<i>[e.g. Total raw material usage]</i>	<i>[e.g. tonnes per production unit]</i>

<b>Operator's comments</b>

**Signed:** *[Name]*

**Date:** *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

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**Guidance for use:** Use this form to report the performance parameters (other than water and energy) required by your permit. Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.