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Wales

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2010

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**Viridis 178 Limited**

**Viridis 178 Swansea Power Plant  
Westfield Industrial Park  
Titanium Road  
Waunarlwydd  
Swansea  
SA5 4SF**

Permit number  
**EPR/XXXXXXXX**

# Viridis 178 Swansea Power Plant

## Permit number EPR/XXXXXXXX

### Introductory note

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

The main features of the permit are as follows.

The installation comprises 27 spark ignition natural gas-fired engines for the purposes of generating electricity. The installation will supply electricity to the National Grid on a short-term basis only to meet peak demand within the electricity distribution network. The engines will therefore operate for a maximum of 1500 hours per year in total. Each engine has a rated thermal input of 2.99 MWth and the aggregated rated thermal input of the installation is 80.73 MWth.

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

Status log of the permit		
Description	Date	Comments
Application EPR/PAN-000118	Duly made 19/02/16	Application for capacity mechanism combustion installation comprising 27 natural gas fired spark ignition engines
Additional information requested	29/04/16	Air quality assessment modelling files
Additional information received	03/05/16	Air quality assessment modelling files received
Additional information requested	18/05/16	Clarification on calculation of ambient background air quality levels
Additional information received	20/06/16	Revised air quality impact assessment received, including clarification of calculation of ambient background
Additional information requested	03/06/16	Clarification of engine type, number and stack height, and description of operating scenario
Additional information received	17/06/16	Revised air quality impact assessment received, confirming engine type, number and stack height, and including description of operating scenario received
Additional information received	23/11/16	Ancient woodland ecology assessment.
Permit determined EPR/XXXXXXXX	XX/XX/17	Permit issued to Viridis 178 Limited

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number  
**EPR/XXXXXXXX**

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

**Viridis 178 Limited** (“the operator”),  
whose registered office is

**17 The Courtyard  
Gorse Lane  
Coleshill  
Birmingham  
B46 1JA**

company registration number **9464998**  
to operate an installation at

**Viridis 178 Swansea Power Plant  
Westfield Industrial Park  
Titanium Road  
Waunarlwydd  
Swansea  
SA5 4SF**

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

Signed

Date

<b><i>[name of authorised person]</i></b>	<b><i>[DD/MM/YYYY]</i></b>
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Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

### 1.2 Energy efficiency

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

### 1.3 Efficient use of raw materials

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

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

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
  - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

## **2 Operations**

### **2.1 Permitted activities**

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

### **2.2 The site**

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

### **2.3 Operating techniques**

- 2.3.1
  - (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
  - (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 The activities shall not operate for more than 1500 hours per year.
- 2.3.4 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.
- 2.3.5 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 Pre-operational conditions**

- 2.4.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.3 have been completed.

## **2.5 Improvement programme**

- 2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.4 by the date specified in that table unless otherwise agreed in writing by Natural Resources Wales.

## **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 table S3.1.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

### **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

## 3.4 Monitoring

- 3.4.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in table S3.1.
- 3.4.2 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.
- 3.4.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.4.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.4.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 table S3.1 unless otherwise agreed in writing by Natural Resources Wales.

## 3.5 Noise and vibration

- 3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.5.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
  - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

# 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 Natural Resources Wales, 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 Natural Resources Wales.



## 4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

## 4.3 Notifications

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

- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales 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:
- (c) any change in the operator's name or address; and
  - (d) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (e) the death of any of the named operators (where the operator consists of more than one named individual);
  - (f) any change in the operator's name(s) or address(es); and
  - (g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) Natural Resources Wales 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 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

## **4.4 Interpretation**

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

# Schedule 1 – Operations

**Table S1.1 Activities**

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	S1.1 A1 (a) – burning any fuel in an appliance with a rated thermal input of 50 or more megawatts	Producing electricity by burning natural gas in 27 spark ignition engines with a rated thermal input of 2.99 megawatts each	<p>From receipt of natural gas to generation of electricity</p> <p>Operation of each individual spark ignition engine shall not exceed:</p> <ul style="list-style-type: none"> <li>1500 hours in any continuous 365 day period; and</li> <li>16 hours any continuous 24 hour period.</li> </ul> <p>For the purpose of discharging emissions to air, each of the 27 spark ignition engines shall have an integrated stack of height 7.2m</p>

**Table S1.2 Operating techniques**

Description	Parts	Date Received
Application PAN-000118	Sections 2.7 and 5 and Appendix G ('BS4142 Noise Assessment Report No: 3291-R1 Titanium Road, Swansea, SA5 4SF') application document entitled 'Permit Application – Viridis 178 Swansea Power Plant. Technical Supporting Information Document (EPR-CP3630AJ) (ref. Final Report 15467i2)' in response to section 3a – technical standards , Part B of the application form	19/02/16
Response to Schedule 5 Notice dated 03/06/16	Response to request for clarification on method used for calculating background air quality, confirmation of type, number and stack height of engines, and description of operating scenario	17/06/16

**Table S1.3 Pre-operational measures**

Reference	Pre-operational measures
PO 1	At least 3 weeks before commissioning, the operator shall submit a written report for approval to Natural Resources Wales that reviews and confirms the measures that will be implemented to achieve an emission limit value for NO <sub>x</sub> of 95mg/m <sup>3</sup> . The report shall consider, but not be limited to, the following measures: selection of engine type, enhanced lean burn, engine tuning, lean NO <sub>x</sub> traps and non-selective catalytic reduction. The report shall also include an impact assessment of expected carbon monoxide, unburnt hydrocarbon and formaldehyde emissions associated with the chosen method for achieving the NO <sub>x</sub> emission limit value.
PO 2	At least 2 months before commencement of commissioning, the operator shall submit a written report to Natural Resources Wales that demonstrates that the operation of the installation has been incorporated into its Environmental Management System

**Table S1.3 Pre-operational measures**

Reference	Pre-operational measures
PO 3	<p>At least 3 weeks before commissioning, the operator shall submit a written report to Natural Resources Wales for approval that demonstrates that the methods used to sample point source emissions to air are in accordance with the measures set out in our document 'Technical Guidance Note (TGN) M1 on sampling requirements for monitoring point source emissions to air'. In line with this document, the operator's report shall consider:</p> <ul style="list-style-type: none"> <li>• the selection of the sampling position;</li> <li>• sampling plane and sampling points;</li> <li>• access, facilities and services required; and</li> <li>• safety considerations.</li> </ul>

**Table S1.4 Improvement programme requirements**

Reference	Requirement	Date
IC 1	<p>The operator shall submit a written report to Natural Resources Wales which will determine whether after 3 years of operation the use of secondary abatement can be considered BAT based on the frequency and duration of engine operation.</p> <p>The report shall:</p> <ul style="list-style-type: none"> <li>• Outline the number of annual operational hours, the number of annual operational requests from National Grid, and the length of each run over the last 3 years;</li> <li>• Include a cost benefit analysis to determine, based on the hours and duration of operation, whether the investment in secondary abatement is viable; and</li> <li>• Include an assessment of the impact of actual emissions of carbon monoxide, unburnt hydrocarbon and formaldehyde.</li> </ul>	Within 3 years of the completion of commissioning of the installation.
IC 2	<p>Following successful commissioning of the installation, the Operator shall undertake noise monitoring at the sensitive receptor monitoring location referred to in the application report 'BS4142 Noise Assessment Report No: 3291-R1 Titanium Road, Swansea, SA5 4SF' in order to validate the report's conclusions. This monitoring and assessment shall include:</p> <ul style="list-style-type: none"> <li>• A full noise monitoring survey and assessment meeting the BS4142:2014 standard; and</li> <li>• 1/3<sup>rd</sup> octave and narrow band (FFT) measurements to identify any tonal elements or low frequency noise.</li> </ul> <p>Upon completion of the monitoring, a written report shall be submitted to Natural Resources Wales. The report shall make reference to the findings detailed within application report 'BS4142 Noise Assessment Report No: 3291-R1 Titanium Road, Swansea, SA5 4SF' and include a detailed review of the acoustic barrier sizing and design. Should rating levels associated with the installation be detected (or calculated) at levels which are likely to cause adverse impact at sensitive receptors, the report shall include an assessment of the most suitable abatement techniques, an estimate of the cost and a proposed timetable for their installation.</p>	Within 6 months of the completion of commissioning of the installation.

# Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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## Schedule 3 – Emissions and monitoring

**Table S3.1 Point source emissions to air – emission limits and monitoring requirements**

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 – A27 [as indicated on site plan in Schedule 7]	Spark ignition engine	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	95 mg/m <sup>3</sup>	Hourly average	Annual	BS EN 14792
		Carbon monoxide	No limit set	Hourly average	Annual	BS EN 15058
		Oxygen	No limit set	Hourly average	Annual	BS EN 14789
		Water vapour	No limit set	Hourly average	Annual	BS EN 14790

# Schedule 4 - Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.4.1	A1 to A27	Every 12 months	1 January

Table S4.2: Annual production/treatment	
Parameter	Units
Electrical power generated (net)	MWh

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MJ
Operating hours	Every 6 months	Total hours (h), total number of runs (quantity), duration of longest run (h) and number of runs >2 hours duration (quantity)

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY
Electrical power generated (net), total hours (h), total number of runs (quantity), duration of longest run (h) and number of runs >2 hours duration (quantity) and average start up time over the year to full installed capacity (h)	Form operating hours 1 or other form as agreed in writing by Natural Resources Wales	DD/MM/YY

# 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 activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment</b>	
<b>To be notified within 24 hours</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 permit condition</b>	
<b>To be notified within 24 hours</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	



Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

<b>(c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:</b>	
<b>To be notified within 24 hours</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.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

# Schedule 6 - Interpretation

*“accident”* means an accident that may result in pollution.

*“application”* means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

*“authorised officer”* means any person authorised by Natural Resources Wales 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.

*“emissions to land”* includes emissions to groundwater.

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

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

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

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

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

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

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

*“year”* means calendar year ending 31 December.

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

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

- (a) 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
- (b) in relation to emissions from gas turbine, spark or compression ignition engine combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or
- (c) in relation to emissions from combustion processes comprising a gas turbine with a waste heat boiler, the concentration in dry air at a temperature of 273K, at a pressure of 101.3kPa and with an oxygen content of 15% dry, unless the waste heat boiler is operating alone, in which case, with an oxygen content of 3% dry for liquid and gaseous fuels; and/or
- (d) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

# Schedule 7 – Site plan

