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Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

PeakGen Power 6 Limited

**PeakGen Barry
East Road off Sully Moors Road
Penarth
South Glamorgan
CF64 5RP**

Permit number

PAN-003574

PeakGen Barry

Permit number PAN-003574

Introductory note

This introductory note does not form a part of the permit

This permit will allow the operator to operate:

- One or more existing medium combustion plant (MCP) between 1 and <50MWth but aggregated to <50MWth, which were put in operation before 20/12/2018 at a specified location; and
- One Tranche B Specified Generator aggregated to <50MWth at a specified location.

The permit regulates 10x 4.79 MW thermal input diesel fuelled compression ignition engines fitted with Selective Catalytic Reduction (SCR) abatement. The engines are used to generate electricity via balancing services. Each engine is an existing Medium Combustion Plant (MCP_ as first put into operation before 20 December 2018, the engines form one collective Tranche B Specified Generator (SG). Early permitting of the existing MCPs has been completed and post-dated MCPD conditions are present in the permit.

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 PAN-003574	Duly made 18/10/18	Application for new Specified Generator permit.
Additional information received	22/01/19	Confirmation of emission points, emission concentrations, revised site plan and revised Part B3 application form.
Additional information received	29/01/19	Confirmation of finalised revised site boundary and plan
Permit determined PAN-003574	13/06/19	Permit issued to PeakGen Power 6 Limited.
Application PAN-003574/V002	Duly made 29/11/2022	Variation to increase operational hours and early permit MCP.
Variation determined PAN-003574/V002 (variation and consolidation)	14/03/2023	Permit issued to PeakGen Power 6 Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

PAN-003574

This is the consolidated permit referred to in the variation and consolidation notice for application PAN-003574/V002 authorising,

PeakGen Power 6 Limited (“the operator”),

whose registered office is

**Gables Lodge
62 Kenilworth Road
Leamington Spa
CV32 6JX**

company registration number **08527433**

to operate one or more Medium Combustion Plant and/or Specified Generator at

**PeakGen Barry
East Road off Sully Moors Road
Penarth
South Glamorgan
CF64 5RP**

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

Signed	Date
Holly Noble	14/03/2023

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, so far as is reasonably practicable, 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.

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 No MCP shall be operated beyond the site of the grid reference specified for it in schedule 1, table S1.1 of the permit.

2.3 Operating techniques

- 2.3.1 The activities shall be operated using the techniques and, in the manner, described in schedule 1, table S1.2.

3 Emissions and monitoring

3.1 Emissions to air

- 3.1.1 There shall be no point source emissions to air 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.

3.2 Monitoring

- 3.2.1 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, or at a greater frequency if notified to the operator in writing by Natural Resources Wales:
- (a) point source emissions specified in table S3.1
- 3.2.2 Monitoring shall not take place during periods of start up or shut down.

- 3.2.3 The first monitoring measurements for carbon monoxide shall be carried out
- (a) For existing MCP at any time but no later than 4 months after the relevant compliance date
- 3.2.4 The operator shall maintain records of all monitoring including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, test and surveys and any assessment or evaluation made on the basis of such data.
- 3.2.5 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.2.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, 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.
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plans and management system required to be maintained by this permit.
- 4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP and/or Specified Generator.
- 4.1.4 The operator shall maintain a record of any events of non-compliance and the measures taken to ensure compliance is restored in the shortest possible time

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 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 S4.2; and
 - (c) giving the information from such results as required by the forms specified in those tables.

4.3 Notifications

- 4.3.1 In the event:
- (a) of a breach of any of the permit conditions 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;

- (b) of a breach of any of the permit conditions which causes a significant degradation of local air quality, the operator must immediately suspend the operation of the activities or the relevant part of them until compliance with the 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 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.

4.4 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

Table S1.1 activities

National Grid Reference and or activity reference/ emission point	Activity listed in the EP Regulations	Description of Medium Combustion Plant and/or Specified Generator	Fuel	Operating hours limit per year
Generators G1 - G10 with emission points A1 – A10 respectively	Schedule 25A – Medium Combustion Plant and Schedule 25B Specified Generator	10x 4.79 MWth input compression ignition engines (each are an individual existing Medium Combustion Plant) fitted with Selective Catalytic Reduction (SCR) abatement comprising 1x 47.9 MWth input Specified Generator	Gas Oil (Diesel)	<750 hours per Specified Generator
G1 NGR – ST 14579 68640				
G2 NGR – ST 14575 68664				
G3 NGR – ST 14584 68641				
G4 NGR – ST14580 68661		Medium Combustion Plant as detailed in Schedule 7 of this permit		
G5 NGR – ST 14588 68643				
G6 NGR – ST 14584 68663				
G7 NGR – ST 14598 68644				
G8 NGR – ST 14594 68665				
G9 NGR – ST 14603 68645				
G10 NGR – ST 14598 68666				
Site centre NGR: ST 14588 68654				

Table S1.2 Operating techniques for Specified Generator and Medium Combustion Plant as detailed in Schedule 7

Description
Each MCP/generator must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this
The operator must keep periods of start-up and shut-down of each MCP/generator as short as possible
There must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993
Where secondary abatement is required to ensure compliance with the NOx ELV it must be met within 10 minutes from when the generator commences operation or within 20 minutes when the generator was a Tranche A and is now a Tranche B.
Abatement plant must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this.
The stack must be vertical and unimpeded by cowls or caps.

Schedule 2 – Waste types, raw materials and fuels

This schedule is not used.

Schedule 3 – Emissions and monitoring

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

Emission point reference & location	Source/technology	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method ^{Note 1}
Emission points A1 – A10 each from generators G1 – G10 as referenced in Table S1.1	Compression ignition engines fuelled on gas oil (each an existing Medium Combustion Plant)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	190 mg/Nm ³	Periodic	Every 3 years	BS EN 14792
		Carbon monoxide	No limit set	Periodic	Every 3 years	BS EN 15058
					From date of acceptance of first monitoring measurements under condition 3.2.3	

Note 1: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 6 % for solid fuels, 15 % for engines and gas turbines and 3 % all other MCPs

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 3.2.1.	A1 – A10	Every 3 years	1 January

Table S4.2 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	14/03/2023

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

“authorised officer” means any person authorised by 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.

“compliance date” means 01/01/2025 for existing MCPs and a tranche A specified generator with net rated thermal input of greater than 5MW or 01/01/2030 for existing MCPs and a tranche A specified generator with a net rated thermal input of less than or equal to 5MW.

“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.

“existing MCP” means an MCP first put into operation before 20/12/2018.

“first put into operation” means that the plant must have been fired with its design fuel up to its full load. This can be, but does not have to be, during commissioning.

“gas oil” includes diesel and is defined in Article 3(19) of the MCPD.

“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.

“new MCP” means an MCP first put into operation on or after 20/12/2018.

“operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

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

“specified generator” has the meaning given in paragraph 2(1) of Schedule 25B of The EP Regulations.

“tranche A generator” has the meaning given in paragraph 3(3) of schedule 25B of The EP Regulations.

“tranche B generator” is any generator that is not a Tranche A generator.

“year” means calendar year ending 31 December.

Schedule 7 – Annex I of MCPD

1. Rated thermal input (MW) of the medium combustion plant.	Each unit is 4.79 MWth input, combined is 47.9 MWth (10 units)
2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Diesel engine (all 10 units)
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	100 % gas oil (all 10 units)
4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.	September 2015 (all 10 units)
5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code).	D35.11 Production of electricity
6. Expected number of annual operating hours of the medium combustion plant and average load in use.	<750 hours, 100% average load in use
7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.	N/A exemption does not apply
8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.	See permit above

END OF PERMIT