Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Thurrock Power Limited

Thurrock Flexible Generating Plant
Station Road
East Tilbury
Tilbury
Essex
RM18 8QR

Permit number

EPR/MP3526SF

Thurrock Flexible Generating Plant
Permit number EPR/MP3526SF

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The Installation is located at National Grid Reference TQ 66398 76793 approximately 1 km east of the edge of Tilbury, Essex.

The Installation will consist of 95 gas engines operating under Section 1.1 Part A(1)(a) of the Environmental Permitting Regulations (EPR) for the burning of fuel in an appliance with a rated thermal input of 50 or more MW. The individual engines are also Medium Combustion Plant (MCP) under Schedule 25A of the Environmental Permitting Regulations.

The gas engines are designed to operate in the capacity market to provide electricity to the National Grid. Each engine is designed to generate 4.498 megawatt electrical (MWe) under normal operations and 4.838 MWe in high power mode. Each engine has a thermal input of 9.896 MW, aggregated to 940.12 MW under normal operations and a thermal input of 10.8 MW, aggregated to 1026 MW under high power mode. Each engine will be fuelled by natural gas. The 95 engines are combined into 48 stacks. This configuration includes 47 stacks with two flues each and one stack with a single flue. The stacks are 20 m high (from ground level) and discharge vertically upwards with no obstruction to the flow of emitted waste gases.

The Power Plant will supply electrical power on a short-term basis meeting peak demand with the electrical distribution network. Each unit will operate for a maximum of 1,500 hours per year when called upon by the National Grid. The Installation's sole function is to supply electricity during periods of peak demand or other periods of system tightness. In practice, this means the Power Plant will operate to help manage short-term capacity shortfalls between supply and demand.

The engines operate using the principle of lean-burn combustion to offer high rate of efficiency and a primary method of minimising exhaust emissions to air. The emission limit values for the engines are those specified in the Medium Combustion Plant Directive.

Natural gas will be delivered to the site from the National Transmission System (NTS) via the gas reception kiosk. No natural gas will be stored on site.

Lubrication oil for the engines will be stored in bunded areas. Ethylene Glycol will be stored as part of the radiator fluid mix within the engine's bunded closed-circuit cooling water (CCCW) system.

No process effluent is produced from the process. Uncontaminated surface water will discharge to the land drainage network, then into the River Thames, via on-site oil/water separation facilities and an attenuation system.

The Installation is within 750 m of the nearest residential receptor and there are 2 protected European sites within 10 km, 7 local sites within 2 km and the River Thames is within 1.5 km of the Installation.

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/MP3526SF/A001	Duly made 10/10/24	Application for a combustion facility consisting of a peaking plant.

Status log of the permit		
Description	**Date**	**Comments**
Further Information received, responses to Request for Further Information dated 16/01/25	28/01/25	Further information on transformer location, updated site plan, engine details, containment protection, drainage and site condition report.
Further Information received, responses to Request for Further Information dated 12/02/25	19/02/25	Further information on containment protection and drainage.
Further Information received, responses to Schedule 5 notice dated 20/03/25	16/05/25 28/05/25	Further information on Air Quality Assessment and Best Available Techniques (BAT).
Further Information received, responses to Request for Further Information dated 01/04/25	01/04/25	Further information on ownership of transformers.
Further Information received, responses to Request for Further Information dated 14/05/25	19/05/25	Further information on legal entity of transformers and Noise Impact Assessment.
Further Information received, responses to Request for Further Information dated 22/05/25	28/05/25 18/06/25	Further information on updated Noise Impact Assessment and Noise Management Plan.
Further Information received, responses to Request for Further Information dated 19/06/25 & 14/10/25	15/10/25	Further information on updated site plan.
Permit determined EPR/MP3526SF	30/12/25	Permit issued to Thurrock Power Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/MP3526SF

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

Thurrock Power Limited ("the operator"),

whose registered office is

5th Floor 80 Victoria Street
London
SW1E 5JL

company registration number 14888040

to operate an Installation at

Thurrock Flexible Generating Plant
Station Road
East Tilbury
Tilbury
Essex
RM18 8QR

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

Name	Date
Eleanor Blackeby	**30/12/2025**

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 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 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 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 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

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.

2.3.6 The operating hours of each engine under Activity AR1 shall not exceed 1,500 hours per year.

2.3.7 The total combined operating time of all engines under Activity AR1 shall not exceed 1,520 engine-hours per day, except during a system stress event as defined under the Capacity Market rules.

2.3.8 The operator shall ensure that it operates two engines in combined stacks in preference to an individual engine in a combined stack. Individual engines may operate in a combined stack without the other engine operating in the same combined stack in any one or more of the following circumstances:

(a) commissioning, testing or maintenance purposes.

(b) an odd number of total engines operating at the site.

(c) there is a fault or technical availability issue with the unit that shares the combined stack with an individual engine that is operating.

2.3.9 For the following activities referenced in Schedule 1 Table S1.1: AR1.

(a) the operator must keep periods of start-up and shut down of the combustion plant as short as possible.

(b) there shall be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993.

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.

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 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;

(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;

(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.

3.5 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;

(b) surface water and/or groundwater specified in table S3.2;

(c) process monitoring specified in table S3.3.

3.5.2 The first monitoring measurements shall be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.

3.5.3 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.

3.5.4 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.

3.5.5 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 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

3.5.6 Monitoring of MCP shall not take place during periods of start-up or shut down.

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.

4.1.3 The operator shall keep records of operation under system stress events as defined under the Capacity Market rules in order to demonstrate compliance with relevant exemptions under condition 2.3.7.

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 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 performance parameters set out in schedule 4 table S4.2 using the forms specified in table S4.3 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 S4.3; 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 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 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

Table S1.1 activities			
Activity reference	**Activity listed in Schedule 1 of the EP Regulations**	**Description of specified activity**	**Limits of specified activity**
AR1	Section 1.1 Part A1(a)	Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more using 95 spark ignition gas engines, with a combined thermal input of 1026 MW. (New MCP).	From receipt of natural gas to discharge of exhaust gases, and the generation of electricity for export to the National Grid. The operation of each engine shall not exceed the specifications set out in conditions 2.3.6 and 2.3.7. Operation of the Installation shall be solely for the purpose of providing electricity to the National Grid during periods of peak demand or other periods of system tightness.
	Directly Associated Activity		
AR2	Directly associated activity	Transformers	Conversion of electricity between voltage levels in order to serve the electrical grid.
AR3	Directly associated activity	Raw material storage	From receipt of raw materials to dispatch for use.
AR4	Directly associated activity	Surface water drainage	Handling and storage of site drainage until discharge to River Thames via on-site oil/water interceptor and attenuation system.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application EPR/MP3526SF/A001	Application Forms B2 and B3 and all referenced supporting information.	Duly Made 10/10/24
Response to Request for Further Information dated 16/01/25	Response detailing transformer location, engine details, containment protection and drainage.	28/01/25
Response to Request for Further Information dated 12/02/25	Response detailing containment protection and drainage.	19/02/25
Response to Schedule 5 notice dated 20/03/25	Response detailing Air Quality Assessment and Best Available Techniques (BAT).	16/05/25 28/05/25

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Response to Request for Further Information dated 22/05/25	Response detailing Noise Impact Assessment (NIA).	28/05/25
Response to Request for Further Information dated 22/05/25	Noise Management Plan (NMP) detailed in: Noise Management Plan - Thurrock Flexible Generating Facility, Version 04, dated 18/06/2025.	18/06/25

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	**Methane emissions** The operator shall submit a written report to the Environment Agency for assessment and written approval to establish methane (CH_4) emissions from the engines. The report shall also include a calculation of the potential mass release of carbon dioxide equivalents (CO2e) from slip, based on operating pattern and exhaust characteristics of the Installation. The report shall compare CH_4 emissions to the manufacturer's specification and appropriate benchmark level as agreed in writing with the Environment Agency. Based on the conclusions of this assessment, an appropriate proposal shall be provided to assess potential methane slip for the lifespan of the engines and outline an action plan that will be followed in the instance that emissions above the manufacturer's specification or appropriate benchmark level are identified. Once approved in writing, any proposals/action plans shall be implemented in accordance with the agreed timescales.	Within 12 months from written notification by the Environment Agency. Notification will not be given until the facility has completed commissioning.
IC2	**Formaldehyde emissions** The operator shall submit a written report to the Environment Agency for assessment and written approval to establish formaldehyde emissions and predicted impacts from the engines. The report shall contain: • an assessment of the impacts of formaldehyde emissions in accordance with Environment Agency H1 guidance or equivalent methodology; and • a review of the emission levels in comparison to the relevant benchmark levels.	Within 12 months from written notification by the Environment Agency. Notification will not be given until the facility has completed commissioning.
IC3	**Monitoring locations** The operator shall submit a written report to the Environment Agency for assessment and written approval on the assessment of air emissions monitoring locations during commissioning of the Installation. The report shall include: • whether the air emissions monitoring locations meet the requirements of BS EN 15259 and supporting Method Implementation Document (MID); • the results and conclusions of the assessment including where necessary proposals for improvements to meet the requirements;	Within 3 months of the completion of commissioning of the Installation

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	Where notified in writing by the Environment Agency that the requirements are not met, the operator shall submit proposals or further proposals for rectifying this in accordance with the timescale in the notification. The proposals shall be implemented in accordance with the Environment Agency's written approval.	
IC4	**Commissioning** The operator shall submit a written report to the Environment Agency for assessment and written approval on the commissioning of the Installation. The report shall include: • a summary of the environmental and energy efficiency performance of the plant as installed against the design parameters set out in the application; • 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.	Within 3 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**
-	-

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 to A95 (as shown on site plan in Schedule 7)	Engine exhaust stacks (New MCP which are engines fuelled on natural gas)	Oxides of Nitrogen (NO and NO_2 expressed as NO_2)	95 mg/m^3	Periodic	Annually	BS EN 14792
		Carbon monoxide	No limit set	Periodic	Annually	BS EN 15058

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
W1, W2 and W3 emission points as shown on site plan in Schedule 7 [Note 1]	Clean and uncontaminated surface water via oil/ water interceptor	No parameter set	No limit set	-	-	-
Note 1: Emission to River Thames via on-site oil/water interceptor and attenuation system.						

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
A1 to A95 (as shown on site plan in Schedule 7)	Beginning and end of operation periods of individual engines	Continuous	Engine performance parameters	Record the time of day and duration of operation of each engine.
	Total annual operating hours per engine	Continuous	Engine performance parameters	As specified in condition 2.3.6
	Total combined daily operating hours	Continuous	Engine performance parameters	As specified in condition 2.3.7

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**
Point source emissions to air Parameters as required by condition 3.5.1	A1 – A95	Every 12 months	1 January
Process monitoring Parameters as required by condition 3.5.1: • Beginning and end of operation periods of individual engines. • Total annual operating hours per engine.	A1 – A95	Every 12 months	1 January
Process monitoring Parameters as required by condition 3.5.1: • Total combined daily operating hours.	A1 – A95	Every 6 months	1 January, 1 July

Table S4.2 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	m^3/MWh_e generated
Energy usage	Annually	Total energy used/MWh_e generated
Total operating hours per engine	Annually	Hours
Daily combined engine-hours	Every 3 months or as agreed in writing with the Environment Agency	The total combined operating time of all engines per day (hours)
Oil changes	Annually	MWh_e generated between oil changes

Table S4.3 Reporting forms		
Parameter	**Reporting form**	**Form version number and date**
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Table S4.3 Reporting forms		
Parameter	**Reporting form**	**Form version number and date**
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Engine operating hours	Form Hours 01 Operational Engine Hours or other form as agreed in writing by the Environment Agency	30/12/2025

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	
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 breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
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.	

(d) 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 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.

“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.

“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.

“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, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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.

“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.

“Shut-down” is any period where the plant is being returned to a non-operational state.

“Start-up” is any period where the plant has been non-operational, until fuel has been fed to the plant to initiate steady-state conditions.

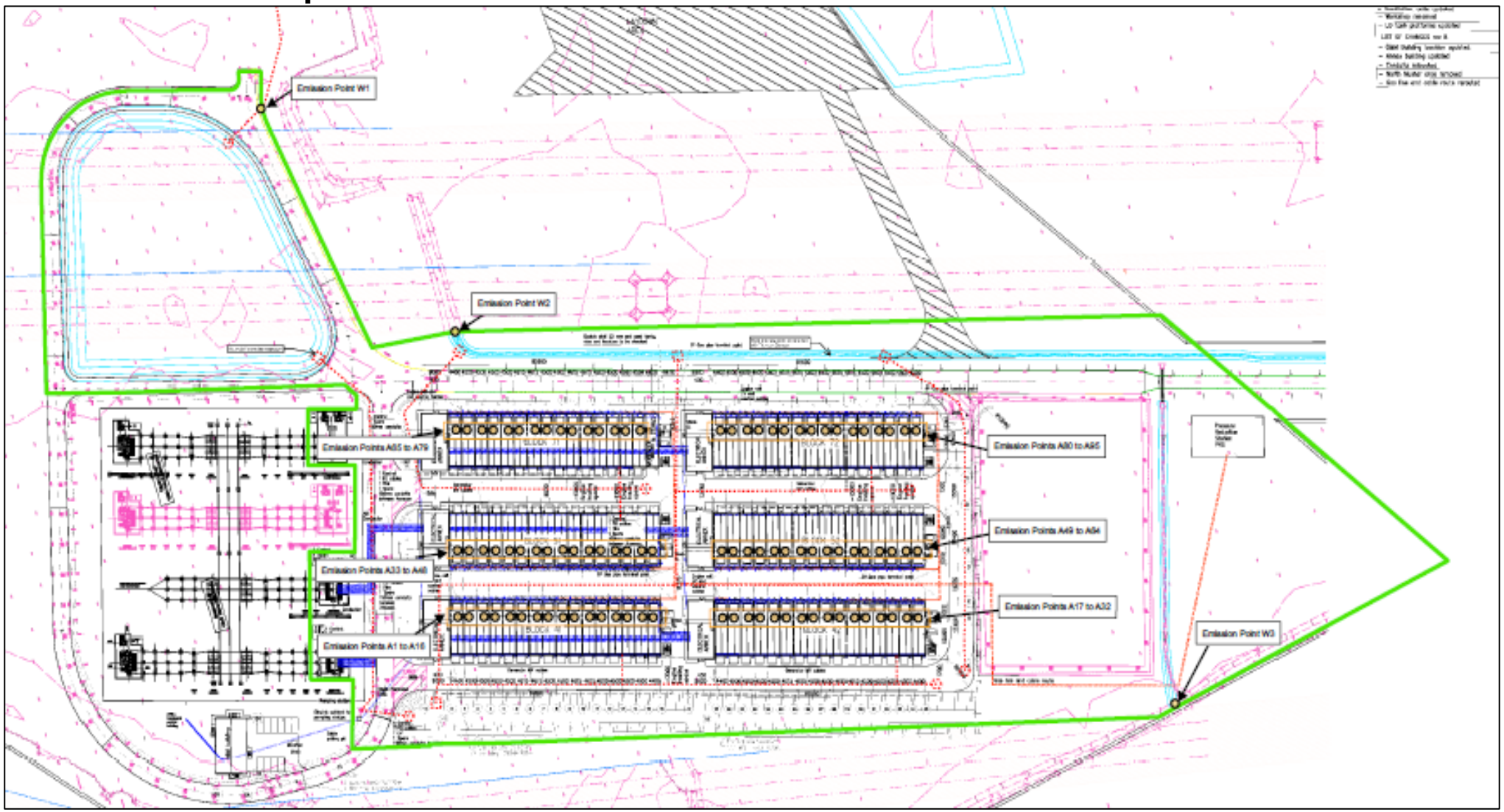
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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 other than gas engines or gas turbines, 6% dry for solid fuels; and/or
- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous 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.

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.

“Year” means calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT

Reporting Forms

Emissions to Air Reporting Form

Permit number: *[EPR/AB1234CB]*

Operator: *[A Company Name Limited]*

Facility name: *[Unit A, Anytown]*

Emissions to Air Reporting Form: Version 1, 08/03/2021

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

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method [1]	Result [2]	Sample dates and times [3]	Uncertainty [4]
[e.g. A1]	*[e.g. Oxides of nitrogen (NO and NO_2 expressed as NO_2)]*	*[e.g. 200 mg/m^3]*	*[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)

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.

[1] 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.
[2] 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.
[3] 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.
[4] 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: Version 1, 08/03/2021

Reporting of water usage for the year *[YYYY]*

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

Operator's comments

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

(Authorised to sign as representative of the operator)

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: Version 1, 08/03/2021

Reporting of energy usage for the year *[YYYY]*

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

Operator's comments

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

(Authorised to sign as representative of the operator)

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.

[1] 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.

[2] 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]* **Other Performance Parameters Reporting Form: Version 1, 08/03/2021**

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

Parameter	Units
[e.g. Total raw material usage]	*[e.g. tonnes per production unit]*

Operator's comments

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

(Authorised to sign as representative of the operator)

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.

Hours 01 Operational Engine Hours

Permit Number: *[EPR/AB1234CB]* **Operator:** *[A Company Name Limited]*

Facility: *[Unit A, Anytown]* **Form Number:** Hours 01 / 30/12/2025

Reporting of Operational Engine Hours for the period from DD/MM/YYYY **to** DD/MM/YYYY

Maximum Daily Combined Operating Hours (per Month):											
Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**

Engine Operational Hours (per Year):							
Engine ID	**Total Hours (Year)**	**Operating Occasions**	**Occasions >2hr**	**Engine ID**	**Total Hours (Year)**	**Operating Occasions**	**Occasions >2hr**
A1				*A6*			
A2				*A7*			
A3				*A8*			
A4				*A9*			
A5				*A10*			

Signed ……. **Date……..**

(authorised to sign as representative of Operator)