

# Notice of variation and consolidation with introductory note

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

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UNIPER UK LIMITED

North Killingholme Power Project  
Clough Lane  
Killingholme  
North Lincolnshire  
DN40 3JP

## **Variation application number**

EPR/FP3838EB/V004

## **Permit number**

EPR/FP3838EB

# North Killingholme Power Project

## Permit number EPR/FP3838EB

### Introductory note

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

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

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

#### **Purpose of this variation:**

The existing permit was issued in 2017 authorising the operation of an 800 MWth Combined Cycle Gas Turbine (CCGT) and gasification plant; however, construction of the installation was never started.

This substantial variation is required to increase the net thermal input capacity of the CCGT from 800 MW to 900 MW, varying the permitted Section 1.1 Part A(1)(a) listed activity.

The land associated with the gasification plant (which was never authorised to operate) is also removed by this variation, with the partial surrender of land in the northern section of the installation associated with this plant.

Emission point M1, associated with the 'vent scrubber for an acid tank' is also removed from table S3.1 by this variation as it is no longer included within the design of the installation.

The installation listed activity comprises:

- 900 MWth CCGT (Large Combustion Plant (LCP470));
- 8.5 MWth natural gas fired auxiliary boiler;
- two natural gas fired Joules Thomson (JT) heaters, each at 3 MWth; and
- 1.5 MWth emergency diesel generator.

The schedules specify the changes made to the permit

#### **The main features of the regulated facility are as follows:**

This is a permit to operate a 900MWth Combined Cycle Gas Turbine (CCGT) power station, which will be fired on natural gas obtained from an existing local high pressure gas supply network. The CCGT is a Large Combustion Plant (LCP470).

The facility will be operated flexibly to support the requirements of the national grid.

The facility will be regulated under the Environmental Permitting Regulations scheduled activity reference:

Section 1.1 Part A(1)(a) - burning any fuel in an appliance with a rated thermal input of 50 MW or more.

Flue gases, resulting from the combustion of natural gas, will be discharged into the atmosphere through the main stack at emission point A1, which is 80m in height.

The main stack serves the Gas Turbine (GT) and Heat Recovery Steam Generator (HRSG). Natural gas will be burnt in the combustion chamber of the GT producing hot, high-pressure gases. These gases will expand through the GT to generate electricity. The hot, expanded gases are then used in the HRSG to generate steam, which is in turn then used in the steam turbine equipment to generate additional electricity. The spent steam will leave the steam turbine equipment passing to a condenser, which is cooled by water coming from the hybrid cooling towers. The resultant condensate will be returned to the HRSG for reuse.

Other combustion plant operating at the facility are:

8.5 MWth natural gas fired auxiliary boiler for production of steam for start-up of the plant, with emissions discharged to atmosphere at emission point A2, which is 15m in height.

2 x natural gas fired Joules Thomson (JT) heaters, each at 3 MWth, required where the temperature of the gas downstream of the gas pressure reducing station falls below a set point. Emissions are discharged to atmosphere at emission points A3 and A4, which are 10m in height.

1.5 MWth emergency diesel generator, for use in the event of loss of electrical power to enable the plant to be shut-down safely and maintain essential site supplies. Emissions are discharged to atmosphere at emission point A5, which is 20m in height.

The facility includes a cooling water intake and outfall from the River Humber adjacent to the existing Cargo Receiving Order (C.R.O) Ports Killingholme (CPK) jetties and will utilise a hybrid cooling tower system.

The main plant discharge will be via the hybrid cooling tower return infrastructure that will discharge the cooling water purge back to the River Humber, known as emission point W1.

The facility will operate in accordance with an Environmental Management System ("EMS") which will be an integral part of its overall management system, certified to the ISO 14001 standard.

The facility is located in the Yorkshire and the Humber region, approximately 5km north-west of Immingham Docks at National Grid Reference TA 1578 1963. The nearest residential settlements to the facility are:

- East Halton (approximately 1.2km to the west);
- North Killingholme (approximately 2km to the south-west); and
- South Killingholme (approximately 3km to the south-west).

The facility is located wholly within the administrative boundary of North Lincolnshire Council and the parishes of North Killingholme and East Halton.

The Humber Estuary is located approximately 0.5km north-east of the facility (at its nearest point) and is within the habitat site screening distance of 15km from the facility. The Humber Estuary is designated as both a Special Area of Conservation (SAC) and a Special Protection Area (SPA) under the Habitats Regulations. The closest Site of Special Scientific Interest (SSSI) to the facility is the North Killingholme Haven Pits SSSI, located approximately 0.3km east of the site (at its nearest point). The Humber Estuary SAC / SPA, as described above, is also a SSSI.

The facility was subject to a Development Consent Order (DCO) which was granted by the Secretary of State on 11 September 2014 with a Correction Order effective from 27 October 2015 and two subsequent amendment orders effective from 16 September 2021 and 03 April 2026. The DCO requires the plant to be CHP-ready (combined heat and power) and carbon capture ready.

Extra land has been set aside for carbon capture readiness as explained within the Carbon Capture Readiness Compliance report, 31 July 2025.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application EPR/FP3838EB/A001	Duly made 10/03/2014	Application for 800 MWth Combined Cycle Gas Turbine (CCGT) power station
Schedule 5 Notice for further information issued	21/11/2014	Further information requested
Schedule 5 Notice-part response	13/01/2015	Flare sensitivity data and analysis, Screening of gen-set engines and diesel generators and further information response

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Schedule 5 Notice-part response	17/08/2015	North Killingholme Power Project, Environmental Permit Application, C.GEN Killingholme Ltd, reference 3514058B, Final
Schedule 5 Notice-part response	22/02/2016 23/02/2016	Revised application forms & supporting documentation
Schedule 5 Notice-part response	22/04/2016	Revised H1 assessment & data
Schedule 5 Notice-part response	27/04/2016	Revised air quality & noise assessments
Schedule 5 Notice-part response	12/10/2016	Review of emissions, including noise, assessment ensuring validity. Check of emissions, receptors and designations since time of original submission
Schedule 5 Notice-part response	06/02/2017	Turbine update
Schedule 5 Notice for further information issued	14/02/2017	Further information requested on discharges to water assessment
Schedule 5 Notice-part response	10/03/2017	Further information on water discharges.
Schedule 5 Notice-part response	20/04/2017	Dilution spreadsheets & conclusions for water discharges
Permit determined EPR/FP3838EB	10/08/2017	Permit issued to C.Gen Killingholme Limited
Transfer application EPR/FP3838EB/T003	Duly made 13/05/2025	Application to transfer the permit in full to UNIPER UK LIMITED
Transfer determined EPR/FP3838EB/T003	02/09/2025	Full transfer of permit complete
Variation application EPR/FP3838EB/V004	Duly made 09/02/2026	Application to increase the thermal input capacity of the CCGT from 800 MWth to 900 MWth
Partial surrender (low impact) EPR/FP3838EB/S005	Duly made 18/12/2025	Required due to a reduction in the site boundary associated with variation EPR/FP3838EB/V004 Partial surrender approved 24/02/2026 (decision recorded in site condition report evaluation template (SECRET))
Request for further information sent 25/02/2026	17/03/2026	NOx daily mean critical level BAT Conclusions 16 and 44 BAT for cooling options
Request for further information sent 25/03/2026	27/03/2026	Updated site plan, without the alternative location for W1 (separate variation required)
Variation determined and consolidation issued EPR/FP3838EB/V004	26/05/2026	Varied permit issued

End of introductory note

# Notice of variation and consolidation

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

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

### Permit number

EPR/FP3838EB

### Issued to

**UNIPER UK LIMITED** (“the operator”)

whose registered office is

**Compton House 2300 The Crescent  
Birmingham Business Park  
Birmingham  
England  
B37 7YE**

company registration number **02796628**

to operate a regulated facility at

**North Killingholme Power Project  
Clough Lane  
Killingholme  
North Lincolnshire  
DN40 3JP**

to the extent set out in the schedules.

The notice shall take effect from 26/05/2026

Name	Date
Eleanor Blackeby	26/05/2026

Authorised on behalf of the Environment Agency

## Schedule 1

The following conditions were varied/added as a result of the application made by the operator:

Condition 2.3.6 added to reference new table S1.6.

Condition 2.3.9 added to implement the requirements of the Medium Combustion Plant Directive (MCPD).

Condition 3.1.4 added to implement the requirements of the MCPD.

Condition 3.5.5 added to implement the requirements of the MCPD.

Condition 3.5.6 added to implement the requirements of the MCPD.

Condition 3.6.1 amended to include reference to the LCP BAT Conclusions, consistent with our permit template.

Condition 3.6.7 amended to include the yearly average for (a) and to amend (e) and (f) to (e) to (g), consistent with our permit template.

Condition 4.1.3 added to implement the requirements of the MCPD.

Table S1.1, as referenced by conditions 2.1.1, 2.3.2, 2.3.5, 2.3.6, 2.3.9, 3.1.4 and 3.5.5 amended to update the combustion listed activity to include the relevant LCP and medium combustion plants (MCPs), to remove the directly associated activity for the 'Waste water treatment plant', previously activity reference A3 and to update the activity references.

Table S1.2, as referenced by conditions 2.3.1, 2.3.3, 2.3.5 and 2.3.6 amended to remove operating techniques associated with the original application and replace them with the operating techniques associated with this variation.

Table S1.3, as referenced by condition 2.4.1 amended:

- to update IC1 to extend the submission date from 1 month to 3 months from the completion of commissioning;
- to update IC3 to remove 'the progress made in the certification of the system by an external body or if appropriate submit a schedule by which the EMS will be certified';
- to update IC4 to reference this application and to extend the submission date from 1 month to 3 months from the completion of commissioning; and
- to add IC5 to IC7.

Table S1.4, as referenced by condition 2.5.1 amended:

- to update PO2 to add 'Following the completion of the detailed engineering design, and at least six months prior to construction', and to reference this application;
- to confirm that PO3 is replaced by PO8;
- to confirm that PO4 is replaced by IC7;
- to confirm that PO5 no longer applies; and
- to add PO6 to PO10.

Table S1.6, as referenced by condition 2.3.6 added to include the definition for Dry Low NO<sub>x</sub> effective.

Table S3.1, as referenced by conditions 3.1.1, 3.5.1, 3.5.4 and 3.6.7 amended:

- to include the yearly average limits and monitoring requirements for LCP470;
- to update limits and monitoring requirements for LCP470;
- to add the flow measurement for LCP470; and
- to add the MCPs (emission points A2 to A5).

Table S3.2, as referenced by conditions 3.1.1, 3.5.1 and 3.5.4 amended:

- to include national grid references; and
- to add W2

Table S4.1, as referenced by condition 4.2.3 amended to include the relevant reporting requirements for the MCPs (emission points A2 to A5) and W2.

Table S4.4, as referenced by conditions 4.2.2 and 4.2.3 amended to include the reporting forms for the MCPs (emission points A2 to A5).

Schedule 6 - Interpretation, as referenced by condition 4.4.1 amended to include definitions relevant to this variation.

Schedule 7 – Site plan, as referenced by condition 2.2.1 amended to update site plan.

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

Condition 1.2.2 amended consistent with our permit template.

Condition 2.1.2 deleted as this only applies to chapter 5 installations.

Condition 2.3.2 amended consistent with our permit template.

Condition 2.5.1 amended to change the table number from S1.4A to S1.4, also refer to condition 2.5.2.

Condition 2.5.2 deleted, included in error, references table S1.4B which isn't in the permit.

Condition 4.3.2 amended consistent with our permit template.

Table S1.3, as referenced by condition 2.4.1 amended to update IC1, IC2 and IC4 to include wording consistent with our template 'for assessment and written approval'.

Table S1.5, as referenced by condition 2.3.5 amended to include reference to table S1.3.

Table S2.1, as referenced by condition 2.3.4 amended to update the fuel description consistent with our permit template.

Table S3.1, as referenced by conditions 3.1.1, 3.5.1, 3.5.4 and 3.6.7 amended:

- to update the flow monitoring standard at emission point A1 (LCP470) to replace M2 with our monitoring stack emissions guidance: techniques and standards for periodic monitoring (formerly M2); and
- for emission point A1 (LCP470) to confirm BS EN 15259 requirements, the monitoring frequency has been changed from 'Pre-operation and when there is a significant operational change' to 'During commissioning and when there is a significant operational change' as this can only be done during commissioning when fuel is being burnt.

Table S4.3, as referenced by condition 4.2.2 amended to update the table title consistent with our permit template.

Table S4.4, as referenced by conditions 4.2.2 and 4.2.3 amended to include the IED CEM3 form and to amend format consistent with our permit template.

Schedule 5 - Notification, as referenced by condition 4.3.2 amended consistent with our permit template.

Schedule 6 - Interpretation, as referenced by condition 4.4.1 amended to delete the "waste code" definition which is not relevant and to update the "Industrial Emissions Directive" definition consistent with our permit template.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

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

### Permit number

**EPR/FP3838EB**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FP3838EB/V004 authorising,

**UNIPER UK LIMITED** (“the operator”),

whose registered office is

**Compton House 2300 The Crescent  
Birmingham Business Park  
Birmingham  
England  
B37 7YE**

company registration number **02796628**

to operate an installation at

**North Killingholme Power Project  
Clough Lane  
Killingholme  
North Lincolnshire  
DN40 3JP**

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

Name	Date
Eleanor Blackeby	26/05/2026

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) 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.

1.2.2 The operator shall review the viability of Combined Heat and Power (CHP) implementation at least every 4 years, or in response to any of the following factors, whichever comes sooner:

- (a) new plans for significant developments within 15 km of the installation;
- (b) changes to the Local Plan;
- (c) changes to the BEIS UK CHP Development Map or similar; and
- (d) new financial or fiscal incentives for CHP.

The results shall be reported to the Agency within two months of each review, including where there has been no change to the original assessment in respect of the above factors.

### 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;
  - (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 For the following activities referenced in schedule 1, table S1.1: LCP470. The activities shall be operated in accordance with the “Electricity Supply Industry IED Compliance Protocol for Utility Boilers and Gas Turbines” dated November 2025 or any later version unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 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.
- 2.3.4 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.5 For the following activities referenced in schedule 1, table S1.1: LCP470. The end of the start-up period and the start of the shut-down period shall conform to the specifications set out in Schedule 1, tables S1.2 and S1.5.
- 2.3.6 For the following activities referenced in schedule 1, table S1.1: LCP470. The effective Dry Low NOx threshold shall conform to the specifications set out in Schedule 1, tables S1.2 and S1.6.

- 2.3.7 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.
- 2.3.8 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.
- 2.3.9 For MCPs specified in schedule 1, table S1.1:
- (a) the operator must keep periods of start-up and shut-down of the combustion plant as short as possible; and
  - (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.

## **2.5 Pre-operational conditions**

- 2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

# **3 Emissions and monitoring**

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

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 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.
- 3.1.4 For MCPs specified in schedule 1, table S1.1 Limited Operating Hours MCPs shall:
- (a) Not exceed 500 hours operation in a 12-month period as a rolling average over a 3 year period, for new MCPs, and thereafter assessed annually.
  - (b) Not operate for more than 750 hours in any single year.

## **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.

3.4.2 The operator shall:

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

## **3.5 Monitoring**

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1 and S3.2.

- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continuous), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 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.
- 3.5.5 For MCPs specified in schedule 1, table S1.1 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.
- 3.5.6 Monitoring of MCP shall not take place during periods of start-up or shut down.

## **3.6 Monitoring for Large Combustion Plant**

- 3.6.1 All monitoring required by this permit shall be carried out in accordance with the provisions of Annex V of the Industrial Emissions Directive and the Large Combustion Plant Best Available Techniques Conclusions.
- 3.6.2 If the monitoring results for more than 10 days a year are invalidated within the meaning set out in condition 3.6.7, the operator shall:
  - (a) within 28 days of becoming aware of this fact, review the causes of the invalidations and submit to the Environment Agency for approval, proposals for measures to improve the reliability of the continuous measurement systems, including a timetable for the implementation of those measures; and
  - (b) implement the approved proposals.
- 3.6.3 Continuous measurement systems on emission points from the LCP shall be subject to quality control by means of parallel measurements with reference methods at least once every calendar year.
- 3.6.4 Unless otherwise agreed in writing by the Environment Agency in accordance with condition 3.6.5 below, the operator shall carry out the methods, including the reference measurement methods, to use and calibrate continuous measurement systems in accordance with the appropriate CEN standards.
- 3.6.5 If CEN standards are not available, ISO standards, national or international standards which will ensure the provision of data of an equivalent scientific quality shall be used, as agreed in writing with the Environment Agency.
- 3.6.6 Where required by a condition of this permit to check the measurement equipment, the operator shall submit a report to the Environment Agency in writing, within 28 days of the completion of the check.
- 3.6.7 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3, table S3.1; the Continuous Emission Monitors shall be used such that:
  - (a) for the continuous measurement systems fitted to the LCP release points defined in Table S3.1 the validated hourly, monthly, yearly and daily averages shall be determined from the measured valid hourly average values after having subtracted the value of the 95% confidence interval;
  - (b) the 95% confidence interval for nitrogen oxides and sulphur dioxide of a single measured result shall be taken to be 20%;
  - (c) the 95% confidence interval for dust releases of a single measured result shall be taken to be 30%;

- (d) the 95% confidence interval for carbon monoxide releases of a single measured result shall be taken to be 10%;
- (e) an invalid hourly average means an hourly average period invalidated due to malfunction of, or maintenance work being carried out on, the continuous measurement system;
- (f) any day, in which more than three hourly average values are invalid shall be invalidated;
- (g) to allow some discretion for zero and span gas checking, or cleaning (by flushing), an hourly average period will count as valid as long as data has been accumulated for at least:
  - (i) 20 minutes of the period for open cycle turbines and engines; and
  - (ii) 40 minutes of the period for all other combustion appliances.
- (iii) Such discretionary periods are not to exceed more than 5 in any one 24-hour period unless agreed in writing. Where plant may be operating for less than the 24-hour period, such discretionary periods are not to exceed more than one quarter of the overall valid hourly average periods unless agreed in writing.

## 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 maintain a record of the type and quantity of fuel used and the total annual operating hours for each MCP.

### 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 resource efficiency metrics set out in schedule 4 table S4.2;
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

## 4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
    - (i) inform the Environment Agency,
    - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
    - (iii) take the measures necessary to prevent further possible incidents or accidents;
  - (b) of a breach of any permit condition the operator must immediately—
    - (i) inform the Environment Agency, and
    - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
  - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
  - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (c) any change in the operator's name or address; and
  - (d) any steps taken with a view to the dissolution of the operator.

- 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.
- 4.3.8 The operator shall inform the Environment Agency in writing of the closure of any LCP within 28 days of the date of closure.

## **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 A(1)(a) Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more.	<b>Large Combustion Plant (LCP)</b> <u>LCP470 (CCGT mode) (emission point A1)</u> 1 x 900 MWth combined cycle gas turbine (CCGT) power plant comprising a GT, steam turbine (ST) and Heat Recovery Steam Generator (HRSG) burning natural gas to produce electricity	From receipt of natural gas to discharge of exhaust gases and the generation of electricity.
		<b>Medium Combustion Plants (MCPs) (new)</b> <u>Auxiliary boiler (emission point A2)</u> 1 x 8.5 MWth natural gas fired auxiliary boiler for production of steam for start-up of the plant <u>Gas fired heaters (emission points A3 and A4)</u> 2 x natural gas fired Joules Thomson (JT) heaters, each at 3 MWth <u>Emergency diesel (gas oil) generator (emission point A5)</u> 1 x 1.5 MWth emergency diesel generator	From receipt of natural gas and gas oil for the emergency generator to discharge of exhaust gases and the generation of electricity and steam.  The emergency diesel generator shall be operated for the purpose of testing for no more than 50 hours per year.  Each MCP shall operate for no more than 500 hours in total in accordance with permit condition 3.1.4.
<b>Directly Associated Activity</b>			
AR2	Directly associated activity	Surface water drainage	Handling and storage of site drainage until discharge to the site surface water system.
AR3	Directly associated activity	Raw and process water treatment plant	From receipt of water to treatment, use and discharge.
AR4	Directly associated activity	Oil storage tanks	From receipt and storage of lubrication oil, transformer oil and other oils to use in systems and plant to removal from site.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/FP3838EB/V004	<u>Technical standards</u> Part C3 of application form, section 3a (technical standards)	09/02/2026
	Sections 4.1 and 7.4 of the updated Main Supporting Document <sup>Note 1</sup> <u>LCP BAT Conclusions</u> Compliance and operating techniques identified in response to the BAT Conclusions for Large Combustion Plant (LCP) published 17 August 2017 – Appendix C of the updated Main Supporting Document <sup>Note 1</sup> Note 1: Main Supporting Document (updated) reference: KLCP-ARP-EN-ACB010-0003, dated 04 December 2025	17/03/2026

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p><b>MSUL and MSDL</b></p> <p>The operator shall submit a report in writing to the Environment Agency for assessment and written approval. The report shall define and provide a written justification of the “minimum start up load (MSUL)” and “minimum shut-down load (MSDL)”, for each unit within the LCP as required by the Implementing Decision 2012/249/EU in terms of:</p> <ul style="list-style-type: none"> <li>i. the output load (i.e. electricity, heat or power generated) (MW); and</li> <li>ii. this output load as a percentage of the rated thermal output of the combustion plant (%).</li> </ul> <p>and / or</p> <ul style="list-style-type: none"> <li>iii. at least three criteria or equivalent operational parameters that suit the technical characteristics of the plant, which can be met at the end of start-up or start of shut-down as detailed in Article (9) 2012/249/EU.</li> </ul>	3 months after completion of commissioning

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC2	<p><b>Net rated thermal input</b></p> <p>The operator shall provide a report in writing to the Environment Agency for assessment and written approval which provides the net rated thermal input for LCP470. The net rated thermal input is the 'as built' value unless the plant has been modified significantly resulting in an improvement of the plant efficiency or output that increases the rated thermal input (which typically requires a performance test to demonstrate that guaranteed improvements have been realised). Evidence to support this figure, in order of preference, shall be in the form of:</p> <ul style="list-style-type: none"> <li>a) performance test results* during contractual guarantee testing or at commissioning (quoting the specified standards or test codes);</li> <li>b) performance test results after a significant modification (quoting the specified standards or test codes);</li> <li>c) manufacturer's contractual guarantee value;</li> <li>d) published reference data, e.g., Gas Turbine World Performance Specifications (published annually);</li> <li>e) design data, e.g., nameplate rating of a boiler or design documentation for a burner system;</li> <li>f) operational efficiency data as verified and used for heat accountancy purposes;</li> <li>g) data provided as part of Due Diligence during acquisition.</li> </ul> <p>*Performance test results shall be used if these are available.</p>	6 months after completion of commissioning
IC3	<p><b>Environmental Management System</b></p> <p>The operator shall submit a written report to the Environment Agency on the implementation of its Environmental Management System (EMS) for this installation.</p> <p>The EMS will include a full accident risk assessment and management plan which will be made available for review and approval (in writing) by the Environment Agency.</p>	Within 12 months of the date on which fuel is first burnt
IC4	<p><b>Commissioning</b></p> <p>The operator shall submit a written report to the Environment Agency for assessment and written approval on the commissioning of the installation.</p> <p>The report shall summarise the results of the commissioning programme, the environmental performance of the plant as installed against the design parameters set out in the Application and any significant changes to the information provided in the variation application EPR/FP3838EB/V004.</p> <p>The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.</p>	3 months after completion of commissioning

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC5	<p><b>Dry low NO<sub>x</sub></b></p> <p>The operator shall submit a written report to the Environment Agency for assessment and written approval to define when dry low NO<sub>x</sub> operation is effective.</p> <p>The report shall include:</p> <ul style="list-style-type: none"> <li>• an output load or operational parameters to justify when the dry low NO<sub>x</sub> operation is effective; and</li> <li>• the NO<sub>x</sub> profile through effective dry low NO<sub>x</sub> to 70% and then to full load.</li> </ul>	Within 4 months of the completion of commissioning
IC6	<p><b>NO<sub>x</sub> and CO emissions</b></p> <p>The operator shall submit a written report to the Environment Agency for assessment and written approval on their proposed achievable emission limit values (ELVs) for oxides of nitrogen (NO<sub>x</sub>) and carbon monoxide (CO) from emission point A1 as follows:</p> <p>a) <u>Daily mean from MSUL to baseload (NO<sub>x</sub> and CO)</u></p> <p>ELVs shall be expressed as a daily mean of validated hourly averages from minimum start-up load (MSUL) to baseload, supported by a summary of emissions data.</p> <p>b) <u>Annual mean (CO)</u></p> <p>Additionally for CO, ELVs shall be expressed as an annual mean of validated hourly averages. If the proposed ELV deviates from the indicative BAT AEL for CO of 30 mg/m<sup>3</sup> then an associated BAT justification will need to be included in the written report.</p>	<p>a) Daily mean Within 6 months of the completion of commissioning</p> <p>b) Annual mean Within 15 months of the completion of commissioning</p>
IC7	<p><b>Monitoring location</b></p> <p>The operator shall submit a written report to the Environment Agency for assessment and written approval on the assessment of air emissions monitoring location for emission point A1 during commissioning of the installation.</p> <p>The report shall include:</p> <ul style="list-style-type: none"> <li>• whether the air monitoring location meet the requirements of BS EN 15259 and supporting Method Implementation Document (MID);</li> <li>• the results and conclusions of the assessment including where necessary proposals for improvements to meet the requirements; and</li> <li>• 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.</li> </ul> <p>The proposals shall be implemented in accordance with the Environment Agency's written approval.</p>	Within 3 months of the completion of commissioning

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
PO1	<p><b>Burning of fuel</b></p> <p>The operator shall notify the Environment Agency at least 14 days prior to fuel being burned on the installation for the first time.</p>
PO2	<p><b>Full detailed design details</b></p> <p>Following the completion of the detailed engineering design, and at least six months prior to construction, the operator shall submit a written report to the Environment Agency providing full detailed design details for the site (including drainage).</p> <p>The operator shall undertake a review of the variation application EPR/FP3838EB/V004 against the final plans for the installation, prior to construction, to:</p> <ul style="list-style-type: none"> <li>• ensure that the final proposals will meet the requirements for BAT;</li> <li>• the application still accurately reflects the final design and operating proposals;</li> <li>• provide an updated site layout plan, detailing the precise and accurate location of plant and all emission points.</li> </ul> <p>The operator shall submit the findings of this review within the written report to the Environment Agency for approval in writing by the Environment Agency.</p>
PO3	<p><b>CHP assessment</b></p> <p>Prior to undertaking commissioning of the plant the applicant will submit, to the environment agency, a reviewed and revised Combined Heat and Power Assessment in line with the Environment Agency's latest Guidance (CHP Ready Guidance for Combustion and Energy from Waste Power Plants, V1.0 February 2013), for written acceptance and approval from the Environment Agency.</p> <p>Replaced with PO8</p>
PO4	<p><b>Monitoring location</b></p> <p>Confirm compliance with BS EN 15259 in respect of monitoring location and stack gas velocity profile for emission point A1</p> <p>Replaced with IC7 in table S1.3 of this permit</p>
PO5	<p><b>Site closure plan</b></p> <p>A site closure plan will be submitted to the Environment Agency in order to outline the proposals for the decommissioning of the Project and the reinstatement of the Operations Area.</p> <p>No longer applies</p>

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
PO6	<p><b>Emergency diesel generator specification</b></p> <p>Following the completion of the detailed engineering design, and at least six months prior to the commencement of commissioning operations, the operator shall submit a summary report to the Environment Agency for assessment and written approval, for the emergency diesel generator specified in table S1.1 of the permit.</p> <p>The summary report shall confirm the diesel storage and containment arrangements and the technical specification for the emergency diesel generator, which includes:</p> <ul style="list-style-type: none"> <li>• provision of the engine specification sheet;</li> <li>• the engine plant meets the BAT requirements of emission optimised standards and complies with our guidance at <a href="#">Emergency backup diesel engines on installations: best available techniques (BAT) - GOV.UK</a>.</li> <li>• in the event of any deviations, the permit application still accurately reflects the operating techniques notably for noise, fuel and engine oil storage;</li> <li>• that the environmental assessment still reflects the predicted impacts of the emissions and final stack arrangements;</li> <li>• that the commissioning plan of the plant is covered within the site's permitted regular testing regime, thereby minimising durations and impacts.</li> </ul>
PO7	<p><b>Noise Management Plan (NMP)</b></p> <p>Following the completion of the detailed engineering design, and at least six months prior to the commencement of commissioning operations, the operator shall submit a NMP to the Environment Agency for assessment and written approval.</p> <p>The NMP shall be undertaken in accordance with our guidance at <a href="#">Noise and vibration management: environmental permits - GOV.UK</a> and shall include:</p> <ul style="list-style-type: none"> <li>• any specific noise control measures to be implemented with associated attenuation levels;</li> <li>• description of on-site processes that will ensure impacts do not increase on site; and</li> <li>• actions to be taken if noise is detected outside optimum process parameters.</li> </ul> <p>The operator shall not begin the commissioning operations, including any associated activities, prior to obtaining written approval by the Environment Agency to the NMP.</p>

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Pre-operational measures</b>
PO8	<p><b>Heat recovery</b></p> <p>Prior to the commencement of commissioning, the operator shall submit a written report <sup>Note 1</sup> to the Environment Agency for assessment and written approval on heat recovery options.</p> <p>The report shall include:</p> <ul style="list-style-type: none"> <li>• a comprehensive review of the options available for utilising the heat generated by the combustion process in order to ensure that it is recovered as far as practicable;</li> <li>• the review shall detail any identified proposals for improving the recovery and utilisation of waste heat and shall provide a timetable for their implementation.</li> </ul> <p>The proposals shall be implemented in accordance with the Environment Agency's written approval.</p> <p>Note 1: This report is only required where more than four years have elapsed since the date of the Combined Heat and Power Readiness Assessment, provided as Appendix E of variation application EPR/FP3838EB/V004, dated 26 November 2025 and the commencement of commissioning.</p>
PO9	<p><b>Site Condition Report (SCR) – baseline for soil and groundwater</b></p> <p>Prior to the commencement of commissioning, the operator shall submit a written report on the baseline conditions of soil and groundwater at the installation to the Environment Agency for assessment and written approval.</p> <p>The report shall contain:</p> <ul style="list-style-type: none"> <li>• soil &amp; groundwater baseline monitoring results;</li> <li>• updated SCR;</li> <li>• the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the IED; and</li> <li>• the information, supplementary to that already provided in the application SCR, needed to meet the information requirements of Article 22(2) of the IED.</li> </ul>
PO10	<p><b>Commissioning plan</b></p> <p>Prior to the commencement of commissioning, the operator shall submit to the Environment Agency, and obtain the Environment Agency's written approval to it, a written commissioning plan, including timelines for completion, for approval by the Environment Agency.</p> <p>The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions.</p> <p>Commissioning shall be carried out in accordance with the commissioning plan as approved.</p>

<b>Table S1.5 Start-up and Shut-down thresholds</b>		
<b>Emission Point and Unit Reference</b>	<b>“Minimum Start-Up Load” MSUL Load in MW and as percent of rated power output (%)</b>	<b>“Minimum Shut-Down Load” MSDL Load in MW and as percent of rated power output (%)</b>
A1 LCP470	To be agreed in writing by the Environment Agency, following the outcome of improvement condition IC1 in table S1.3 of this permit.	To be agreed in writing by the Environment Agency, following the outcome of improvement condition IC1 in table S1.3 of this permit.

<b>Table S1.6 Dry Low NOx effective definition</b>	
<b>Emission Point and Unit Reference</b>	<b>Dry Low NOx effective definition Load in MW and as percent of rated power output (%)</b>
A1 LCP470	To be agreed in writing by the Environment Agency, following the outcome of improvement condition IC5 in table S1.3 of this permit. Until IC5 has been completed, compliance will be assessed against the limits in table S3.1 for 70% to baseload.

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

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural gas	-
Gas oil or equivalent substitute to be agreed in writing with the Environment Agency	Not exceeding 0.1% w/w sulphur content

## Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location <small>Note 3</small>	Parameter	Source	Limit (including unit)-these limits do not apply during start up or shut down.	Reference period	Monitoring frequency	Monitoring standard or method <small>Note 6</small>
A1	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	LCP470 Gas turbine fired on natural gas	32.2 mg/m <sup>3</sup> <small>Note 8</small> Effective DLN to baseload <small>Note 1</small>	Yearly average	Continuous	BS EN 14181
A1	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	LCP470 Gas turbine fired on natural gas	50 mg/m <sup>3</sup> Effective DLN to baseload <small>Note 1</small>	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	LCP470 Gas turbine fired on natural gas	42.9 mg/m <sup>3</sup> <small>Note 8</small> Effective DLN to baseload <small>Note 1</small>  42.9 mg/m <sup>3</sup> <small>Note 8</small> MSUL/MSDL to base load <small>Note 2</small>	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	LCP470 Gas turbine fired on natural gas	100 mg/m <sup>3</sup> Effective DLN to baseload <small>Note 1</small>	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181

<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> <small>Note 3</small>	<b>Parameter</b>	<b>Source</b>	<b>Limit (including unit)-these limits do not apply during start up or shut down.</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b> <small>Note 6</small>
A1	Carbon Monoxide	LCP470 Gas turbine fired on natural gas	100 mg/m <sup>3</sup> Effective DLN to baseload <small>Notes 1 and 7</small>	Yearly average	Continuous	BS EN 14181
A1	Carbon Monoxide	LCP470 Gas turbine fired on natural gas	100 mg/m <sup>3</sup> Effective DLN to baseload <small>Note 1</small>	Monthly mean of validated hourly averages	Continuous	BS EN 14181
A1	Carbon Monoxide	LCP470 Gas turbine fired on natural gas	110 mg/m <sup>3</sup> Effective DLN to baseload <small>Note 1</small>  110 mg/m <sup>3</sup> MSUL/MSDL to base load <small>Note 2</small>	Daily mean of validated hourly averages	Continuous	BS EN 14181
A1	Carbon Monoxide	LCP470 Gas turbine fired on natural gas	200 mg/m <sup>3</sup> Effective DLN to baseload <small>Note 1</small>	95% of validated hourly averages within a calendar year	Continuous	BS EN 14181
A1	Sulphur dioxide	LCP470 Gas turbine fired on natural gas	-	-	At least every 6 months	Concentration by calculation, as agreed in writing with the Environment Agency

<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> Note 3	<b>Parameter</b>	<b>Source</b>	<b>Limit (including unit)-these limits do not apply during start up or shut down.</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b> <sup>Note 6</sup>
A1	Flow	LCP470 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	EN ISO 16911 and our monitoring stack emissions guidance: techniques and standards for periodic monitoring (formerly M2)
A1	Oxygen	LCP470 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	BS EN 14181
A1	Water vapour	LCP470 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	BS EN 14181
A1	Stack gas temperature	LCP470 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	Traceable to national standards
A1	Stack gas pressure	LCP470 Gas turbine fired on natural gas	-	-	Continuous As appropriate to reference	Traceable to national standards
A1	As required by the Method Implementation Document for BS EN 15259	LCP470 Gas turbine fired on natural gas	-	-	During commissioning and when there is a significant operational change	BS EN 15259

<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> Note 3	<b>Parameter</b>	<b>Source</b>	<b>Limit (including unit)-these limits do not apply during start up or shut down.</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b> <sup>Note 6</sup>
A2 <sup>Note 5</sup>	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	MCP Natural gas fired auxiliary boiler	No limit	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024	After 1,500 operating hours have elapsed and no less frequent than every 5 years	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024
	Carbon monoxide		No limit	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024	After 1,500 operating hours have elapsed and no less frequent than every 5 years	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024
A3 and A4 <sup>Notes 4 and 5</sup>	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	MCP Joules Thomson (JT) heaters	No limit	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024	After 1,500 operating hours have elapsed and no less frequent than every 5 years	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024
	Carbon monoxide		No limit	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024	After 1,500 operating hours have elapsed and no less frequent than every 5 years	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024

<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> Note 3	<b>Parameter</b>	<b>Source</b>	<b>Limit (including unit)-these limits do not apply during start up or shut down.</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b> <sup>Note 6</sup>
A5 <sup>Note 5</sup>	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	MCP Emergency diesel generator	No limit	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024	After 1,500 operating hours have elapsed and no less frequent than every 5 years	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024
	Carbon monoxide		No limit	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024	After 1,500 operating hours have elapsed and no less frequent than every 5 years	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Published 04 June 2024
<p>Note 1: This limit applies between the effective dry low NO<sub>x</sub> threshold and baseload, as defined in table S1.6 of this permit.</p> <p>Note 2: This ELV applies when the load varies between MSUL/MSDL and base load during the daily reference period. MSUL and MSDL are defined in table S1.5 of this permit. Also refer to improvement condition IC6 in table S1.3 of this permit.</p> <p>Note 3: Emission points on site plan in schedule 7 of this permit. An updated site plan may be provided through completion of pre-operational condition PO2 in table S1.4 of this permit.</p> <p>Note 4: Monitoring requirements apply to each individual emission point, A3 and A4.</p> <p>Note 5: Monitoring shall not take place during periods of start-up or shut-down.</p> <p>Note 6: 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 gases at a standardised oxygen content of 15% for engines and gas turbines and 3% for all other MCPs.</p> <p>Note 7: This limit is linked to improvement condition IC6 in table S1.3 of this permit.</p> <p>Note 8: The net electrical efficiency (EE) uplift limit shall only apply when the net EE of the CCGT is 59% (i.e. BAT AEL = 30 mg/Nm<sup>3</sup> x 59 / 55 (uplift)) and has been agreed in writing by the Environment Agency.</p>						

<b>Table S3.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> <small>Note 1</small>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W1 Discharge to the River Humber  (TA 1680 2050)	Visual appearance	Combined effluents from the HRSG, the demineralisation plant and cooling tower purge	The discharge must so far as is reasonably practicable have no significant adverse visible effect on the receiving water, watercourse bed or any plants or animals within the watercourse	Instantaneous (visual examination)	N/A	Visual examination
	Temperature		≤10°C above river temperature, 30°C	Instantaneous	Continuous	BS EN ISO 10523:2012
	Ph		6-9	Instantaneous	Continuous	BS EN ISO 10523
	Maximum Daily Flow		423,360 m <sup>3</sup> per day	24-hour period beginning 00.01	Continuous	
	Oil or grease		No visible emission	24-hour flow proportional sample	Daily	No significant trace - visual examination
	Residual Chlorine		500 µg/l	24-hour flow proportional sample	Daily	BS EN ISO 7393-1
W2 (TA 1575 1955)	Oil or grease	Uncontaminated surface water drainage	No visible emission	24-hour flow proportional sample	Daily	No significant trace - visual examination
Note 1: Emission points on site plan in schedule 7 of this permit. An updated site plan may be provided through completion of pre-operational condition PO2 in table S1.4 of this permit.						

## Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Oxides of nitrogen	A1	Every 3 months	1 January, 1 April, 1 July, 1 October
Carbon monoxide	A1	Every 3 months	1 January, 1 April, 1 July, 1 October
Sulphur dioxide	A1	Every 6 months	1 January, 1 July
Oxides of nitrogen	A2 to A5	After 1,500 operating hours have elapsed and no less frequent than every 5 years	1 January
Carbon monoxide			
Emissions to Water Parameters as required by condition 3.5.1	W1	Every 6 months	1 January, 1 July
	W2	No formal reporting is required, however monitoring data shall be available for inspection by the Environment Agency, and any notifications shall be in accordance with permit conditions 4.3.1 and 4.3.2.	

Parameter	Units
Electricity Exported	GWhr
Heat Exported	GWhr
Mechanical Power Provided	GWhr
Fossil Fuel Energy Consumption	GWhr
Non-Fossil Fuel Energy Consumption	GWhr
Annual Operating Hours	hr
Water Abstracted from Fresh Water Source	m <sup>3</sup>
Water Abstracted from Borehole Source	m <sup>3</sup>
Water Abstracted from Estuarine Water Source	m <sup>3</sup>
Water Abstracted from Sea Water Source	m <sup>3</sup>
Water Abstracted from Mains Water Source	m <sup>3</sup>
Gross Total Water Used	m <sup>3</sup>

<b>Table S4.2: Resource Efficiency Metrics</b>	
<b>Parameter</b>	<b>Units</b>
Net Water Used	m <sup>3</sup>
Hazardous Waste Transferred for Disposal at another installation	t
Hazardous Waste Transferred for Recovery at another installation	t
Non-Hazardous Waste Transferred for Disposal at another installation	t
Non-Hazardous Waste Transferred for Recovery at another installation	t
Waste recovered to Quality Protocol Specification and transferred off-site	t
Waste transferred directly off-site for use under an exemption / position statement	t

<b>Table S4.3 Large Combustion Plant performance parameters for reporting to DEFRA</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Thermal Input Capacity for each LCP	Annually	MW
Annual Fuel Usage for each LCP	Annually	TJ
Total Emissions to Air of NO <sub>x</sub> for each LCP	Annually	t
Total Emissions to Air of SO <sub>2</sub> for each LCP	Annually	t
Total Emissions to Air of Dust for each LCP	Annually	t
Operating Hours for each LCP (Load Factor)	Annually	hr

<b>Table S4.4 Reporting forms</b>		
<b>Media/ parameter</b>	<b>Reporting format</b>	<b>Agency recipient</b>
LCP	Form IED HR1 – operating hours	National and Area Office
Air & Energy	Form IED AR1 – SO <sub>2</sub> , NO <sub>x</sub> and dust mass emission and energy	National and Area Office
Air	Form IED CON 2 - SO <sub>2</sub> and NO <sub>x</sub> concentration emissions	Area Office
Air	Emissions to Air Reporting Form or other form as agreed in writing by the Environment Agency	Area Office
CEMs	Form IED CEM – invalidation log	Area Office
CEMs	Form IED CEM3 - CEMS Calibration Data Form as agreed in writing by the Environment Agency.	Area Office
Resource Efficiency	Form REM1 – resource efficiency annual report	National and Area Office
Water	Form water 1 or other form as agreed in writing by the Environment Agency	Area Office

# Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

## Part A

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

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

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

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

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

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

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

## Part B – to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

\* authorised to sign on behalf of the operator

## Schedule 6 – Interpretation

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

“Air Quality Risk Assessment” has the meaning given in Annex D of IED Compliance Protocol for Utility Boilers and Gas Turbines.

“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.

“background concentration” means such concentration of that substance as is present in:

for emissions to surface water, the surface water quality up-gradient of the site; or

for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“base load” means: (i) as a mode of operation, operating for >4000hrs pa; and (ii) as a load, the maximum load under ISO conditions that can be sustained continuously, i.e. maximum continuous rating.

“calendar monthly mean” means the value across a calendar month of all validated hourly means.

“CEN” means Comité Européen de Normalisation.

“combined heat and power” (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

“Combustion Technical Guidance Note” means IPPC Sector Guidance Note Combustion Activities, version 2.03 dated 27th July 2005 published by Environment Agency.

“Commissioning” means testing of the installation that involves any operation of LCP470 referenced in schedule 1, table S1.1 or as agreed with the Environment Agency.

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“DLN” means dry, low NO<sub>x</sub> burners.

“emissions to land” includes emissions to groundwater.

“Energy efficiency” the annual net plant energy efficiency means the value calculated from the operational data collected over the year.

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

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

“first put into operation” means that the MCP 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.

“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.

“large combustion plant” or “LCP” is a combustion plant or group of combustion plants discharging waste gases through a common windshield or stack, where the total thermal input is 50 MW or more, based on net calorific value. The calculation of thermal input, excludes individual combustion plants with a rated thermal input below 15 MW.

“limited operating hours MCP” means an MCP that meets the requirements of paragraph 8 of Part 2 of Schedule 25A of the EP Regulations.

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

“MCR” means maximum continuous rating.

“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.

“MSDL” means minimum shut-down load as defined in Implementing Decision 2012/249/EU.

“MSUL” means minimum start-up load as defined in Implementing Decision 2012/249/EU.

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

“ncv” means net calorific value.

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

“operating hours” for MCPs 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.

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

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

“SI” means site inspector.

“Standby fuel” means alternative liquid fuels that are used in emergency situations when the gas fuel which is normally used, is not available.

“year” means calendar year ending 31 December.

“yearly average” means the average over a period of one year of validated hourly averages obtained by continuous measurements.

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

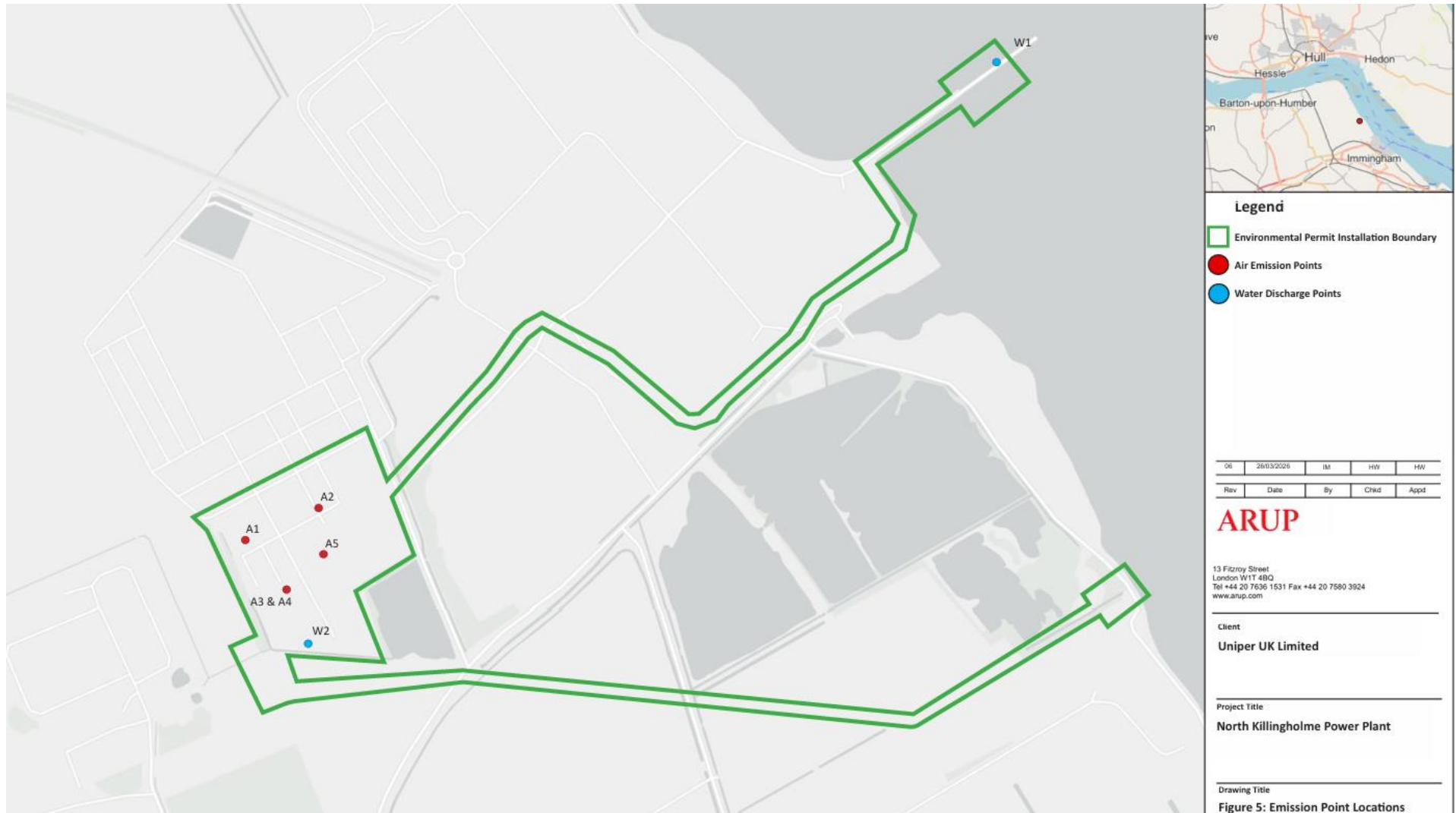
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from gas turbine 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
- 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

- 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



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END OF PERMIT

Permit number  
EPR/FP3838EB