Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

CL International Management (UK) Limited

Croydon Data Centre (LGW13)
Unit B
Prologis Park
Greenland Way
Croydon
CR0 4TD

Permit number

EPR/NP3735JX

Croydon Data Centre (LW13)
Permit number EPR/NP3735JX

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The site is an electronic data storage centre which includes back-up generation capacity, a Schedule 1 Part A(1) 1.1 activity under the Environmental Permitting Regulations (the burning of any fuel in an appliance with a rated thermal input of 50 or more megawatts (MW). The site is located on an Industrial Estate which is adjacent to Beddington Water Treatment Plant. The National Grid Reference for the site is TQ 29694 66752. The site is approximately 1.2 hectares in size. The surrounding area is primarily industrial with some residential uses.

The combustion plant only operates under limited routine maintenance or in an emergency scenario. The emergency combustion activity comprises 31 diesel fuelled standby generators. The thermal input of the generators is as follows: 28 are 3.5 MWth and 3 are 3.7 MWth. The aggregated total combustion capacity on site is 109.1 MWth. All plant was installed between 2007 and 2009 with the site beginning operations as a data centre in 2011. This is before December 2018, they are therefore classed as ‘existing plant’ under the Medium Combustion Plant Directive (MCPD).

Electrical power is provided to the data centre from the National Grid. However, in the event of a failure in the electrical supply, the operator will utilise the generators to maintain the electrical supply. The generators will be used solely for the purpose of generating power for the facility. No electricity will be exported from the installation. The data centre consists of 5 data halls (DH1 – DH5). There are a total of 7 electricity feeds into the data centre, which are organised as follows: 2 feeds to DH1, 2 feeds to DH2 and DH3, 2 feeds to DH4 and DH5 and one feed to the landlord area (office, meeting room, reception and kitchen area). Each of the 7 electricity feeds can be run on either an A or B power input. The generators are organised and controlled to mimic this power input set up. If one of the 2 feeds fail all of the generators would start with generators turned off manually to meet the data centre load and not exceed it. In the event that there is the loss of power across the whole site all generators would start. In a prolonged outage around half of the generators would be turned off after a period of 2 hours to match the load requirements of the data centre. Such a loss of power would require an outage at the 132kVa substation level. All the generators are subject to a maintenance testing schedule.

The generators run on diesel fuel which is stored in 17 above ground bulk storage tanks. The diesel from the bulk storage tanks is piped to the day tanks that are located within each generator container. There are 3 x 14,000 litre tanks, 6 x 25,500 litre tanks, and 8 x 22,000 litre tanks, each tank has an integral bund of 110% capacity. The site is covered in concrete hardstanding. The surface drainage system directs run-off into an oil interceptor prior to discharge from site to the municipal combined sewer. The oil interceptor has a capacity of 5,000 litres, which includes a manual shut off vale to prevent any surface water discharge off site should this be necessary.

The main emissions from the installation are to air in the form of nitrogen oxides, sulphur dioxide, particulate matter and carbon monoxide.

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/NP3735JX/A001	Duly made 18/12/2020	Application for Data Centre operating 31 standby gas oil powered generators.
Response to Schedule 5 Notice#1 dated 16/05/2021	27/05/2021, 11/06/2021, 16/07/2021	Additional information submitted including information regarding: grid reliability, emissions standards, engine and fuel type, stack design and dispersion, plant configuration, emissions abatement, containment, spillage procedures, accident management, fuel handling storage and distribution, air quality action plan, refrigeration (F-gases) and waste disposal.
Response to Schedule 5 Notice#2 dated 20/08/2021	19/09/2021	Additional information submitted including: revised air quality modelling assessment and emissions abatement.
Additional Information Request dated 15/12/2021	21/12/2021, 07/02/2022, 13/06/2022, 14/06/2022	Additional information submitted including: revised installation boundary plan, emissions points plan, drainage plan, engine data sheets, details regarding emissions standards, emissions abatement, containment, details of historic outages, maintenance testing.
Response to Schedule 5 Notice#3 dated 30/11/2021	08/03/2022	Additional information submitted including: revised air quality modelling assessment to assess emissions against Acute Exposure Guidance Limits (AEGLs) and Nitrogen Monoxide (NO).
Permit determined EPR/NP3735JX (PAS Billing ref. NP3735JX)	07/07/2022	Permit issued to CL International Management (UK) Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/NP3735JX

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

CL International Management (UK) Limited ("the operator"),

whose principal office is

6th Floor
2 London Wall Place
London
England
EC2Y 5AU

company registration number 11437232

to operate an installation at

Croydon Data Centre (LGW13)
Unit B
Prologis Park
Greenland Way
Croydon
CR0 4TD

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

Name	Date
Rebecca Warren	**07/07/2022**

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

(a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and

(b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

1.2.1 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 For the following activities referenced in schedule 1, table S1.1: AR1. The activities shall not operate for more than 500 hours in emergency use per annum.

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 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.

3.4.2 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 continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 table S3.1 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) off-site environmental effects; and

(ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 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;

(c) where conditions 2.3.5 applies, the hours of operation in any year.

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	S1.1 A1 (a) Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts	Operation of 31 emergency standby generators with a total thermal input of approximately 109.1 MWth. The generators will burn diesel solely for the purpose of providing electricity to the installation in the event of a failure of supply from the National Grid and during maintenance testing. 28 x 3.5 MWth generators (Existing MCP) 3 x 3.7 MWth generators (Existing MCP)	From receipt of raw materials and generation of electricity to despatch of waste. Electricity produced at the installation cannot be exported to the National Grid. The operational hours of the installation shall not exceed the specifications set out in condition 2.3.5.
	Directly Associated Activity		
AR2	Storage of raw materials	Storage of raw materials including diesel.	From receipt of raw materials to use within the installation.
AR3	Surface water drainage	-	Input to site drainage system until discharge to sewer via interceptor (emission point S1).

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	Application forms B2 and B3 and all referenced supporting information.	Duly Made 18/12/2020
Response to Schedule 5 Notice dated 16/05/2021	Additional information submitted including information regarding: grid reliability, emissions standards, engine and fuel type, stack design and dispersion, plant configuration, emissions abatement, containment, spillage procedures, accident management, fuel handling storage and distribution, air quality action plan, refrigeration (F-gases) and waste disposal.	27/05/2021, 11/06/2021, 16/07/2021
Response to Schedule 5 Notice dated 20/08/2021	Additional information submitted including: revised air quality modelling assessment and emissions abatement.	19/09/2021
Additional Information	Additional information submitted including: revised installation boundary plan, emissions points plan, drainage plan, engine data sheets, details regarding emissions standards, emissions abatement, containment, details of historic outages, confirmation of maintenance testing hours per year.	21/12/2021, 07/02/2022, 13/06/2022, 14/06/2022
Response to Schedule 5 Notice dated 30/11/2021	Additional information submitted including: revised air quality modelling assessment to assess emissions against Acute	08/03/2022

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
	Exposure Guidance Limits (AEGLs) and Nitrogen Monoxide (NO). Maintenance testing hours specified in Modelling Report Addendum: 'Schedule 5 Response Report, March 2022, Bureau Veritas.'	

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The operator shall produce an Air Quality Management Plan in conjunction with the Local Authority outlining response measures to be taken in the event of a grid failure. This should include but not be limited to the following considerations: • The response should be tailored to reflect the predicted potential impact indicated by the air dispersion modelling at individual receptors; • Preventative and reactive actions to be implemented to limit the duration of an outage event is limited to less than 50 hours as far as possible; • Specific timescales for response measures; • How local conditions during a grid failure might influence the response required, for example meteorological conditions or time of day; • Contingency for how the response will be carried out in the event scenario i.e. loss of power; and • Timescales for continued review of the management plan. The agreed Air Quality Management Plan shall be submitted to the Environment Agency for approval.	Within 6 months from the date of issue of the permit EPR/NP3735JX/A001
IC2	The operator shall submit a plan to reduce the predicted short term nitrogen dioxide (NOx) emissions impacts during the maintenance, testing and emergency operations of the standby generators. This shall include but is not limited to: • A feasibility study including cost benefit analysis for upgrades or other changes to infrastructure or operational regimes on site that could reduce emissions of NOx and increase dispersion; • Use of the above information to propose appropriate changes, including but not limited to an assessment of the following options: changes to stack configuration to enhance dispersion (e.g. vertical emission points and increased stack heights); amending the testing schedule to reduce the daily emissions from the testing operations; upgrading the standby engines to reduce emissions or installing newer ones with lower emissions of NOx; installing NOx abatement. If changes in the height of the stacks are demonstrated to be effective, but are not deemed feasible due to local planning restrictions, the Operator shall provide evidence of the engagement carried out with the Local Authority planning department, in support of this conclusion, and propose other emission reduction options. • The Operator shall submit an updated air dispersion modelling study demonstrating how the proposed option(s), selected among those assessed, result in reduced levels of oxides of	Within 9 months from the date of issue of the permit EPR/NP3735JX/A001

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
	nitrogen at the sensitive receptors, including the non-statutory ecological sites in proximity of the installation; • Proposal of the shortest practical timescale for the implementation of the selected improvements. The review and timescale for improvement shall be submitted to the Environment Agency in writing for approval.	
IC3	The Operator shall carry out a review of the site's secondary and tertiary containment systems which serves the oil and diesel storage tanks. The review shall compare the system's design, method of construction and integrity against the standards outlined in CIRIA guidance C736 – Containment Systems for the Prevention of Pollution or an equivalent industry standard. A written report of the review shall be submitted to the Environment Agency for written approval which details: • the review's findings and recommendations; • proposals for the implementation of recommended improvements; and • timescales for implementation of improvements. The operator shall implement the recommended improvements to the secondary and tertiary containment systems within the timescales approved by the Environment Agency.	Within 6 months from the date of issue of the permit EPR/NP3735JX/A001

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Sulphur content in gas oil fuel	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	**Source**	**Parameter**	**Limit (including unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
DH4-1A, DH4-1B, DH4-2A, DH4-2B, DH4-3A, DH4-3B, DH4-4A, DH4-4B, DH5-1A, DH5-1B, DH5-2A, DH5-2B, DH5-3A, DH5-3B, DH5-4A, DH5-4B, DH2-1A, DH2-1B, DH2-2A, DH2-2B, DH2-3A, DH2-3B, DH3-1A, DH3-1B, DH3-2A, DH3-2B, DH3-3A, DH3-3B, DH1-1, DH1-2, DH1-3. As shown on the emissions points plan submitted on 07/02/2022 with application EPR/NP3735JX/A001 [NGR coordinates for each emission point in document '*Croydon Data Centre emission point grid reference points*' submitted on 14/06/2022]	Diesel generator exhausts 28 x 3.5 MWth 3 x 3.7 MWth	Oxides of Nitrogen (NO and NO2 expressed as NO2)	No limit set	-	No monitoring required	-
		Carbon monoxide	No limit set	-	No monitoring required	-
		Sulphur dioxide	No limit set	-	No monitoring required	-
		Particulates	No limit set	-	No monitoring required	-
Vents from 17 bulk diesel storage tanks. As shown on the emissions points plan submitted on 07/02/2022 with application EPR/NP3735JX/A001 [NGR coordinates for each emission point in document '*Croydon Data Centre emission point grid reference points*' submitted on 14/06/2022]	Vents from bulk diesel storage tanks	No parameters set	No limit set	-	No monitoring required	-

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
W1 as shown on the 'drainage annotation' submitted on 13/06/2022 with application EPR/NP3735JX/A001. Emission to Thames Water combined sewer.	Uncontaminated Surface water from hard standing via an oil interceptor.	-	-	-	-	-

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**
-	-	-	-

Table S4.2 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Gas oil usage	Annually	tonnes
Generator operation for testing/maintenance	Annually	- total hours operation for site (hours) - total hours operation per generator (hours) - total number of runs per generator (quantity and dates) - number of minutes per generator run (minutes)
Generator operation for emergency running	Within 24 hours of emergency operation commencing	- date and time of National Grid failure; - number of generators operating immediately after National Grid failure (number); - number of generators operating two hours after National Grid failure (number); - Anticipated duration of mains supply failure (hours)

Table S4.2 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Generator operation for emergency running	Annually	- total number of occurrences of operation of generators (number); - total duration of operation of generators (hours)

Table S4.3 Reporting forms		
Parameter	**Reporting form**	**Form version number and date**
Other performance indicators	Form Performance 1 or other form as agreed in writing by the Environment Agency	07/07/2022
Generator operation during emergency scenario	Form Emergency Scenario or other form as agreed in writing by the Environment Agency	07/07/2022

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(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 to land” includes emissions to groundwater.

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

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

“gas oil” means: (a) any petroleum-derived liquid fuel falling within CN codes 2710 19 25, 2710 19 29, 2710 19 47, 2710 19 48, 2710 20 17 or 2710 20 19; or (b) any petroleum-derived liquid fuel of which less than 65 % by volume (including losses) distils at 250 °C and of which at least 85 % by volume (including losses) distils at 350 °C by the ASTM D86 method.

“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.

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 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.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan

"©Crown Copyright. All rights reserved. Environment Agency, 100024198, 2022."

END OF PERMIT