Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

NTT Global Data Centers EMEA UK Ltd

NTT Dagenham Data Centre
Yewtree Avenue
Dagenham
RM10 7FZ

Permit number

EPR/CP3902LV

NTT Dagenham Data Centre
Permit number EPR/CP3902LV

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 Industrial Estate adjacent to Eastbrookend Country Park. The National Grid Reference for the site is TQ 51021 85378. The site is approximately 0.755 hectares in size. The surrounding area is a mix of industrial, commercial and residential uses.

The combustion plant only operates under limited routine maintenance or in an emergency scenario. The emergency combustion activity comprises 42 diesel fuelled standby generators. Each generator has a thermal input of 4.1 MW. The aggregated total combustion capacity on site is 172.2 MWth. Each generator has an exhaust, which is 21m above ground level and 0.7m above the height of the closest building.

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 standby generators are organised into customer suites. The data centre is designed to have 10 customer suites. There will be 6 suites each with 5 generators and 4 suites with each pair of suites sharing 5 generators, with one of the generators in each suite being a duty standby generator. There are also 2 house generators which provide back-up power for non-IT related infrastructure. In the event of a reduction in electrical power from the National Grid the Building Management System software would automatically start up all generators that have detected a loss in mains power. There is a dual electricity feed to the National Grid meaning that half of the generators would not need to start if one of the feeds was lost. In the case of a long term failure to one electricity feed, all generators can be moved to the remaining feed. All the generators are subject to a maintenance testing schedule.

The generators run on diesel fuel which is stored in 42 diesel belly tanks. Each generator has its own dedicated belly tank which is located above ground on concrete plinths underneath each generator, which are housed in steel containers. The tanks store 24,000 litres each and 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 36,000 litres and can therefore hold the entire contents of one belly tank.

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/CP3902LV/A001	Duly made 14/12/2020	Application for a combustion facility consisting of 42 diesel generators providing emergency power to an electronic data centre.
Response to Schedule 5 notice dated 26/03/2021	21/05/2021	Response to Schedule 5 providing information regarding the assessment of air emissions, emissions standards of the generators, emissions abatement, BAT, bunding and containment, grid resilience, accident management, maintenance inspection and testing and with regards to condition of the land.
Response to Schedule 5 notice dated 26/03/2021	15/07/2021	Response to Schedule 5 providing further information in response to follow up questions (dated 30/06/21).
Response to Schedule 5 notice dated 26/03/2021	05/08/2021	Response to Schedule 5 providing further information in response to follow up questions (dated 20/07/21).
Additional Information	01/07/2021	Response to Request for Information (dated 01/07/21) Height of stacks above adjacent buildings.
Additional Information	26/08/2021	Response to Request for Information (dated 09/08/21) providing an explanation of methodology used for calculating probability of exceedance at ecological receptors.
Additional Information	16/09/2021	Response to Request for Information (dated 06/09/21) Probability of exceedance at ecological receptors follow up questions.
Additional Information	18/10/2021	Response to Request for Information (dated 15/10/21) Revised installation boundary plan submitted
Permit determined EPR/CP3902LV (PAS Billing ref. CP3902LV)	16/12/2021	Permit issued to NTT Global Data Centers EMEA UK Ltd.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/CP3902LV

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

NTT Global Data Centers EMEA UK Ltd ("the operator"),

whose registered office is

3 Centro Boundary Way
Hemel Hempstead
Hertfordshire
HP2 7SU

company registration number 04239332

to operate an installation at

NTT Dagenham Data Centre
Yewtree Avenue
Dagenham
RM10 7FZ

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

Name	Date
Rebecca Warren	**16/12/2021**

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.

1.5 Climate change

1.5.1 The operator shall review and if appropriate update, at least every 4 years, the climate change adaptation risk assessment submitted with the permit application, and shall update the written management system as appropriate.

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.

2.5 Pre-operational conditions

2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table 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 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 tables S3.1 and S3.2 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.

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)	Operation of emergency standby generators burning diesel solely for the purpose of providing electricity to the installation in the event of a failure of supply from the National Grid comprising; 42 x 4.1 MWth generators	From receipt of raw material (diesel) to combustion in Emergency standby generators for electricity production to exhaust of products of combustion to atmosphere to generation, storage and dispatch 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. 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.
Activity reference	**Directly Associated Activity**		
AR2	Storage or raw materials	From receipt of raw materials to use within the facility.	
AR3	Surface water drainage	Input to site drainage system until discharge to surface water sewer via interceptors.	

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application	Application forms B2 and B3 and all referenced supporting information.	Duly Made 14/12/2020
Response to Schedule 5 Notice dated 26/03/2021	Response to Schedule 5 providing information regarding the assessment of air emissions, emissions standards of the generators, emissions abatement, BAT, bunding and containment, grid resilience, accident management, maintenance inspection and testing and with regards to condition of the land.	21/05/2021
Response to Schedule 5 Notice dated 26/03/2021	Response to Schedule 5 providing further information in response to follow up questions (dated 30/06/21).	15/07/2021

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Response to Schedule 5 Notice dated 26/03/2021	Response to Schedule 5 providing further information in response to follow up questions (dated 20/07/21).	05/08/2021

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/CP3902LV/A001
IC2	The operator shall submit a monitoring plan for approval by the Environment Agency detailing their proposal for the implementation of the flue gas monitoring requirements specified in Table S3.1, in line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5). The plan shall include, but not limited to: • When the generators are not fitted with sampling ports, a proposal to install them within the shortest practical timeline; • Details of any relevant safety, cost and operational constraints affecting the monitoring regime, in support of any proposed deviation from the testing regime specified in table S3.1.	Within 3 months from the date of issue of the permit EPR/CP3902LV/A001

Table S1.4 Pre-operational measures for future development		
Reference	**Operation**	**Pre-operational measures**
PO1	The operator shall provide confirmation to the Environment Agency before commencement of each development phase as the installation expands to include additional generators beyond the initial 14 generators that are to be installed.	6 months before the operation of the generators

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
Diesel	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**
GEN H-1, GEN H-2, GEN 1-1, GEN 1-2, GEN 1-3, GEN 1-4, GEN-FO, GEN 6-1, GEN 6-2, GEN 6-3, GEN 6-4, GEN 6-FO, GEN 2 & 7-1, GEN 2 & 7-2, GEN 2 & 7-3, GEN 2 & 7-4, GEN 2 & 7-FO, GEN 3-1, GEN 3-2, GEN 3-3, GEN 3-4, GEN 3-FO, GEN 8-1, GEN 8-2, GEN 8-3, GEN 8-4, GEN 8-FO, GEN 4 & 9-1, GEN 4 & 9-2, GEN 4 & 9-3, GEN 4 & 9-4, GEN 4 & 9-FO, GEN 5-1, GEN 5-2, GEN 5-3, GEN 5-4, GEN 5-FO, GEN 10-1, GEN 10-2, GEN 10-3, GEN 10-4, GEN 10-FO from generators as shown on the '*Site Layout and Emissions Points'* plan submitted on 14/12/2020 with application EPR/CP3902LV/A001	Diesel generator exhausts 42 x 4.1MWth	Oxides of Nitrogen (NO and NO2 expressed as NO2)	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)	Every 1500 hours of operation or once every five years (whichever comes first). [Note 1]	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)
		Carbon monoxide	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)	Every 1500 hours of operation or once every five years (whichever comes first). [Note 1]	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 16 February 2021 (formerly known as TGN M5)
		Sulphur dioxide	No limit set	-	No requirement	-
		Particulates	No limit set	-	No requirement	-
Vents from 42 diesel belly tanks. Dedicated tank located beneath each generator.	Vents from diesel belly tanks.	No parameter set	No limit set	-	No requirement	-
Note 1: Unless otherwise agreed in writing with the Environment Agency as a result of approval of Improvement Condition IC2.						

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**
SW1 as shown on the '*Site Layout and Emissions Points'* plan submitted on 14/12/2020 with application EPR/CP3902LV/A001 Emission to Thames Water surface water sewer	Surface water via oil interceptor	-	-	-	-	-

Schedule 4 – Reporting

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Emissions to air Parameters as required by condition 3.5.1.	GEN H-1, GEN H-2, GEN 1-1, GEN 1-2, GEN 1-3, GEN 1-4, GEN-FO, GEN 6-1, GEN 6-2, GEN 6-3, GEN 6-4, GEN 6-FO, GEN 2 & 7-1, GEN 2 & 7-2, GEN 2 & 7-3, GEN 2 & 7-4, GEN 2 & 7-FO, GEN 3-1, GEN 3-2, GEN 3-3, GEN 3-4, GEN 3-FO, GEN 8-1, GEN 8-2, GEN 8-3, GEN 8-4, GEN 8-FO, GEN 4 & 9-1, GEN 4 & 9-2, GEN 4 & 9-3, GEN 4 & 9-4, GEN 4 & 9-FO, GEN 5-1, GEN 5-2, GEN 5-3, GEN 5-4, GEN 5-FO, GEN 10-1, GEN 10-2, GEN 10-3, GEN 10-4, GEN 10-FO	Every 1500 hours of operation once or every five years (whichever comes first).	Within 4 months of the issue date of the permit or the date when the engine is first put into operation, whichever is later. [Note 1]
Note 1: Unless otherwise agreed in writing with the Environment Agency as a result of approval of Improvement Condition IC2.			

Table S4.2 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Diesel usage	Annually	Tonnes
Generator operation for maintenance	Report to be submitted annually	- Total hours for the site (hours), - Total hours per generator (hours), - Total number of runs per generator (quantity) - Number of minutes per run (minutes)
Generator operation during emergency scenario	Within 24 hours if operation commences	- Date and time of grid failure,

Table S4.2 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
		- Number of generators operating immediately after the failure, - Number of generators operating two hours after failure, - Anticipated duration of the mains supply failure (hours)
Generator operation during emergency scenario	Annually	- Total number of runs (quantity) - Duration of runs (hours)

Table S4.3 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Emissions to Air Reporting Form or other form as agreed in writing by the Environment Agency	16/12/2021
Other performance indicators	Form ‘performance 1’ or other form as agreed in writing by the Environment Agency	16/12/2021
Generator operation during emergency scenario	Form ‘emergency scenario’ or other form as agreed in writing by the Environment Agency	16/12/2021

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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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.

“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.

“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.

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

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

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.

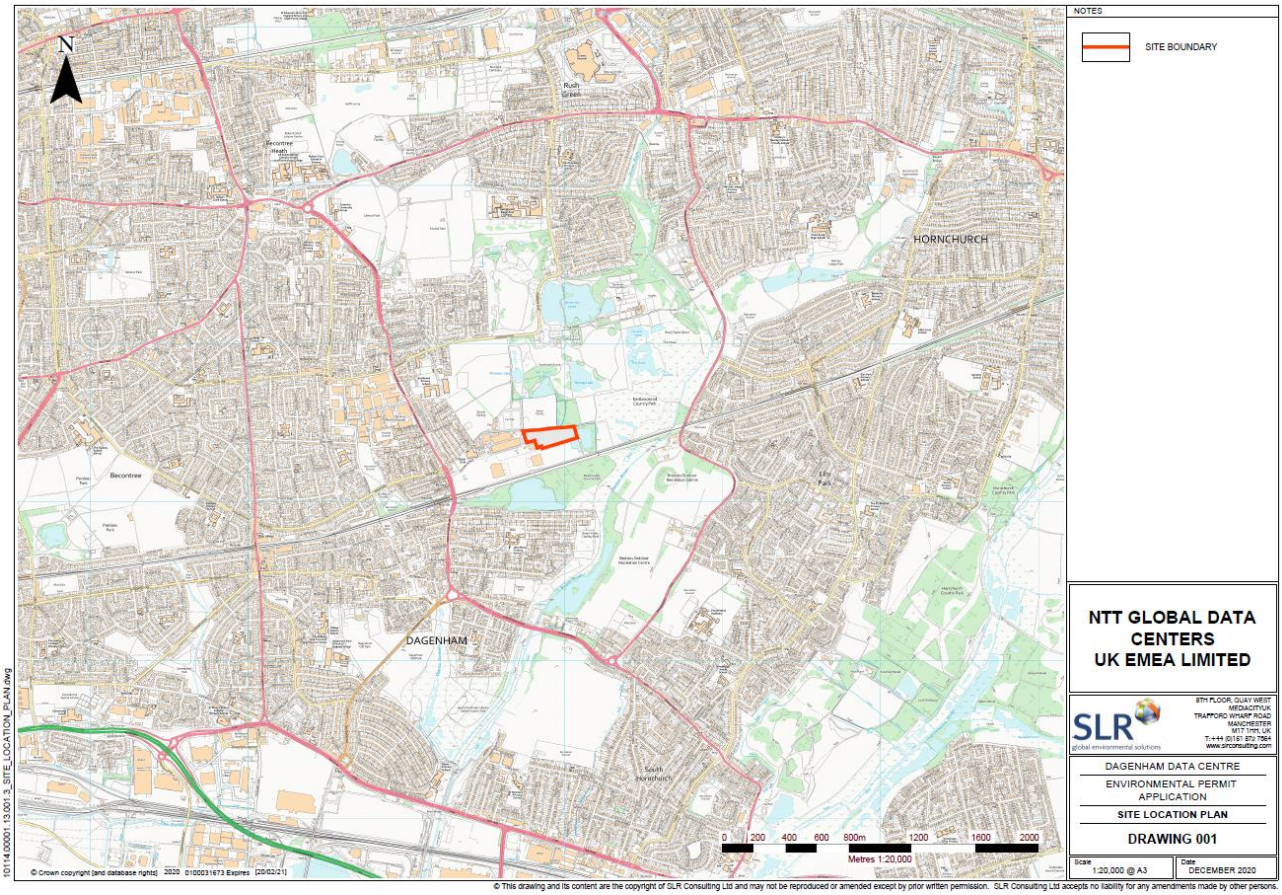
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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 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.

Schedule 7 – Site plan

Site Location Plan



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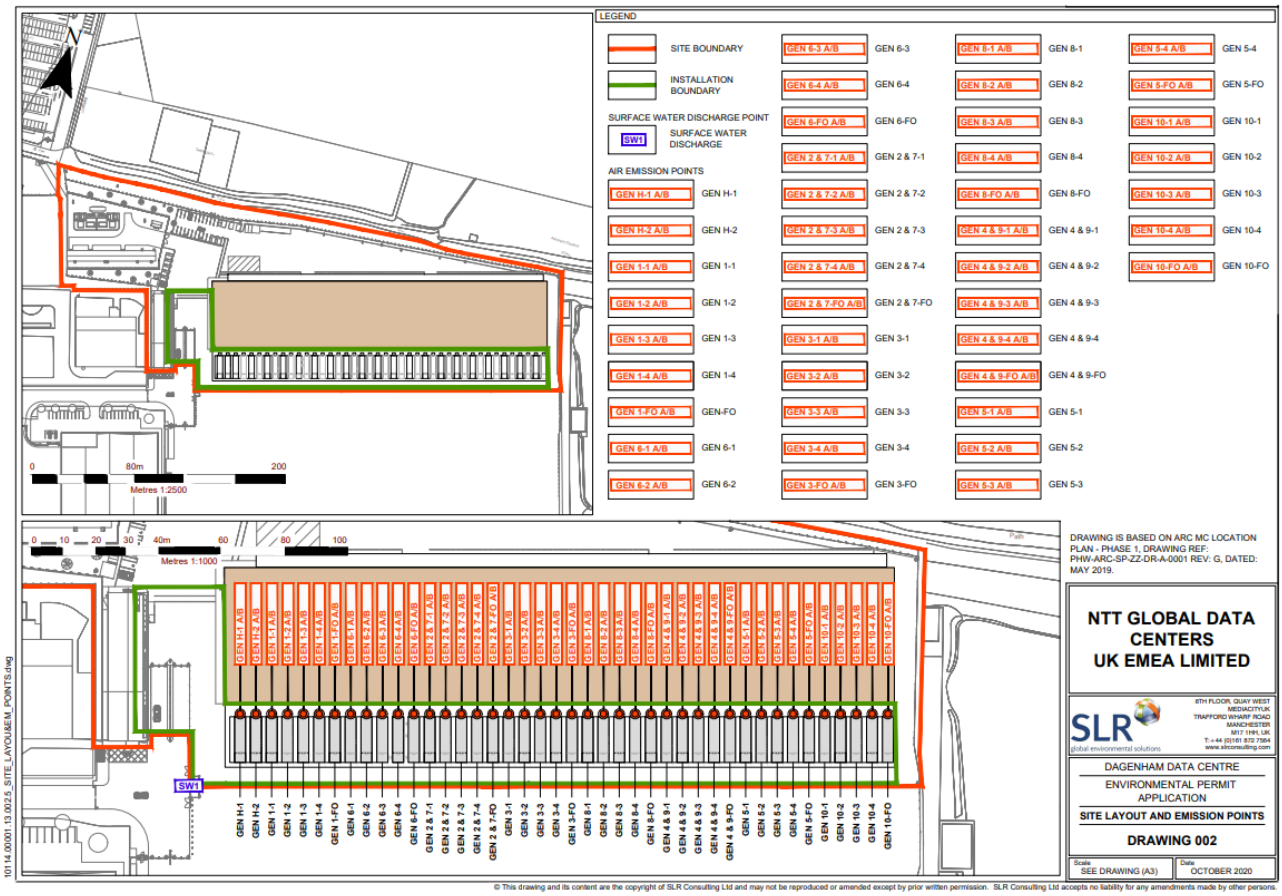
Installation boundary plan

Showing installation boundary as referred to in condition 2.2.1.



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