

# Notice of variation and consolidation 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

### **Variation application number**

EPR/CP3902LV/V003

### **Permit number**

EPR/CP3902LV

# NTT Dagenham Data Centre

## Permit number EPR/CP3902LV

### 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 EPR/CP3902LV/V003**

This variation is for the addition of 24 liquid fuelled standby generators (SBGs) to the data centre, described as phase B of the LON1 data centre development (LON1B).

LON1B will involve the construction of a new data centre building located to the south of the existing LON1A (28 SBGs).

There will be 24 SBGs within this new data centre building (classed as 'new' Medium Combustion Plants (MCP) as part of the Industrial Emissions Directive (IED)):

22 SBGs each with a thermal rated input of 7.6 MWth (total thermal rated input of 167.2 MWth); and  
2 SBGs each with a thermal rated input of 3.8 MWth (total thermal rated input of 7.6 MWth).

The LON1B SBGs will have Selective Catalytic Reduction (SCR) abatement to reduce emissions of oxides of nitrogen (NO<sub>x</sub>) to atmosphere.

Based on the proposed changes, the aggregated total combustion capacity for the installation will increase from 160.35 MWth to 335.15 MWth.

LON1A with 28 SBGs (classed as 'new' MCPs as part of the IED) already permitted are:

12 SBGs each with a thermal rated input of 4.1 MWth (total thermal rated input of 49.2 MWth) (phase 1); and  
16 SBGs each with a thermal rated unput of 6.947 MWth (total thermal rated input of 111.15 MWth (phases 2 and 3).

The schedules specify the changes made to the permit.

#### **Main features of the permit**

The site is located at NTT Dagenham Data Centre, at a National Grid Reference of TQ 51021 85378. It is on an Industrial Estate adjacent to Eastbrookend Country Park, and the surrounding area is a mix of industrial, commercial and residential uses.

It is within London Borough of Barking and Dagenham, which is an Air Quality Management Area (AQMA) for the annual and 1-hour mean nitrogen dioxide (NO<sub>2</sub>) and the 24-hour particulate matter with a diameter of 10 micrometres or less. (PM<sub>10</sub>).

There are 13 designated ecological sites within the 2km screening distance, including Local Wildlife Sites and Local Nature Reserves. There are no European Sites within the 10km screening distance, and no Sites of Special Scientific Interest (SSSI) within the 2km screening distance.

The site is an electronic data storage centre which consists of a Schedule 1 listed activity under the Environmental Permitting Regulations:

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

The activity falls under Chapter II of the Industrial Emissions Directive (IED). The liquid fuelled standby generators (SBGs) are classed as Medium Combustion Plant (MCP) as part of a Chapter II installation. The Medium Combustion Plant Directive (MCPD) requirements are fulfilled through compliance with Chapter II of Directive 2010/75/EU. Operating as new MCPs as part of a Chapter II installation, they will be used as back-up generators, only providing power at the site during a power outage.

There are 52 SBGs with a total thermal input capacity of 335.15 MWth, classed as 'new' MCPs as part of the IED.

The SBGs will be used solely to generate power for the facility in the event of an emergency situation, such as a brown- or black-out of the local electricity transmission network. No electricity will be exported from the installation.

#### LON1A

12 SBGs each with a thermal rated input of 4.1 MWth (total thermal rated input of 49.2 MWth) (phase 1) (no Selective Catalytic Reduction (SCR) abatement installed); and

16 SBGs each with a thermal rated unput of 6.947 MWth (total thermal rated input of 111.15 MWth) (phases 2 and 3) (SCR abatement installed).

#### LON1B

22 SBGs each with a thermal rated input of 7.6 MWth (total thermal rated input of 167.2 MWth) (SCR abatement installed); and

2 SBGs each with a thermal rated input of 3.8 MWth (total thermal rated input of 7.6 MWth) (SCR abatement installed).

The gas oil and/or hydrotreated vegetable oil (HVO) fuel for the LON1A SBGs is stored in bunded belly tanks with an integral bund of 110% capacity. The belly tanks are integral to the container units, located beneath the base of each SBG unit. These tanks are raised off ground level on concrete plinths and housed within proprietary steel container units.

The gas oil and/or HVO fuel for the LON1B SBGs is stored at the LON1B data centre building in belly tanks which sit below the individual SBGs within the internal SBG rooms. Each generator room is bunded to provide 110% containment of the maximum volume of SBG fuel stored within the belly tank within these rooms.

In total, a maximum of 724,000 litres (LON1A) and 864,000 litres (LON1B) of liquid fuel can be stored at the data centre, and there is no bulk storage of liquid fuel.

The plant is permitted to operate for less than 500 emergency hours per year, and for less than 50 hours per year for the testing of each SBG.

The on-site surface water drainage system drains all run-off in the area via an oil interceptor, which is discharged into the municipal combined sewer system.

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

The minimum default generator specification for new plant, to minimise the impacts from NOx emissions to air, is 2g-TA Luft or US EPA Tier 2 or an equivalent standard. All 52 SBGs are emissions optimised to meet the US EPA Tier 2 standard.

All SBGs (except the 12 x 4.1 MWth LON1A phase 1 SBGs), are fitted with SCR NO<sub>x</sub> abatement systems.

The 16 LON1A SBGs SCR system uses IMS-eco technology, which has a target of reducing NO<sub>x</sub> emissions by 79%. Each SCR abatement system will take between 5 and 10 minutes to reach the 79% NO<sub>x</sub> reduction, based on a load of between 75% and 100%. The SCR NO<sub>x</sub> abatement system will reduce the NO<sub>x</sub> emissions to 667mg/m<sup>3</sup> per generator at 100% load and 5% oxygen (257mg/m<sup>3</sup> at 15% oxygen).

Each SCR abatement system will have a 2,000 litre AdBlue bulk tank, located beneath the inlet attenuator of the SBG container unit.

To prevent ammonia slip, Ammonia Slip Catalysts (ASC) are used. The ASC technology is designed to control up to 20 ppm of ammonia in the exhaust gas from SCR, based on the SCR design target which is 79% NO<sub>x</sub> reduction.

The 24 LON1B SBGs will be supplied with SCR abatement, designed to reduce NO<sub>x</sub> emissions to meet the Medium Combustion Plant Directive (MCPD) emission limit for NO<sub>x</sub> of 190 mg/m<sup>3</sup> @ 15% oxygen. At the time of variation EPR/CP3902LV/V003, the SCR abatement system had not been selected and a pre-operational condition was set to address this.

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/CP3902LV/A001	Duly made 14/12/2020	Application for a combustion facility consisting of 42 gas oil 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 30/06/2021).
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 20/07/2021).
Additional Information	01/07/2021	Response to request for information (dated 01/07/2021), height of stacks above adjacent buildings.
Additional Information	26/08/2021	Response to request for information (dated 09/08/2021), 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 06/09/2021), probability of exceedance at ecological receptors follow up questions.
Additional Information	18/10/2021	Response to request for information (dated 15/10/2021), revised installation boundary plan submitted.
Permit determined EPR/CP3902LV	16/12/2021	Permit issued to NTT Global Data Centers EMEA UK Ltd.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Variation application EPR/CP3902LV/V002	Duly made 18/04/2023	Variation to change the type, number and capacity of specified generators (SBGs). The variation reduces the number of SBGs from 42 to 28 SBGs, and the total capacity from 172.2 MWth to 160.35 MWth.
Additional information	09/02/2024	Response to request for information, providing form C2.5 and the combustion plant list spreadsheet, and further information on the Air Emissions Risk Assessment.
Additional information	14/03/2024	Further information on the maximum ammonia concentration, following the use of selective catalyst reduction.
Additional information	26/07/2024	Response to schedule 5 which provides further information on containment.
Additional information	12/08/2024	Revised noise assessment and air quality assessment, correcting the testing schedule.
Permit determined EPR/CP3902LV/V002	26/09/2024	Varied and consolidated permit issued in modern format
Variation application EPR/CP3902LV/V003	Duly made 09/08/2024	Variation to add 24 liquid fuelled standby generators (SBGs) (phase LON1B).
Additional information requested 10/10/2024	10/10/2024	LON1B commissioning clarification.
Additional information requested 10/12/2024	11/12/2024	Impacts from oxides of nitrogen.
Variation determined EPR/CP3902LV/V003	17/12/2024	Varied and consolidated permit issued in modern format

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/CP3902LV/V003**

### Issued to

**NTT Global Data Centers EMEA UK Ltd** (“the operator”),

whose registered office is

**1 King William Street  
London  
England  
EC4N 7AR**

company registration number 04239332

to operate an installation at

**NTT Dagenham Data Centre  
Yewtree Avenue  
Dagenham  
RM10 7FZ**

to the extent set out in the schedules.

The notice shall take effect from 17/12/2024.

<b>Name</b>	<b>Date</b>
<b>Eleanor Blackeby</b>	<b>17/12/2024</b>

Authorised on behalf of the Environment Agency

## Schedule 1

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

- Table S1.1 Activities, as referenced by conditions 2.1.1 and 2.3.5, to update activity reference AR1 with the LON1B SBGs.
- Table S1.2 Operating techniques, as referenced by conditions 2.3.1 and 2.3.2, to include the relevant operating techniques.
- Table S1.3 Improvement programme requirements, as referenced by condition 2.4.1, to include improvement conditions IC4 and IC5 for the LON1B SBGs.
- Table S1.4 Pre-operational measures, as referenced by condition 2.5.1, to include pre-operational conditions PO2 and PO3 for the LON1B SBGs.
- Table S3.1 Point source emissions to air – emission limits and monitoring requirements, as referenced by conditions 3.1.1, 3.5.1 and 3.5.4, to include monitoring requirements for the LON1B SBGs.
- Table S3.3 Process monitoring requirements, as referenced by condition 3.5.1 to include monitoring requirements for the LON1B SBGs.
- Table S4.1 Reporting of monitoring data, as referenced by condition 4.2.3, to include reporting requirements for the LON1B SBGs.
- Table S4.2 Performance parameters, as referenced by condition 4.2.2, to include performance parameters for the LON1B SBGs and AdBlue usage for LON1A and LON1B SBGs.
- Schedule 7, Site plan, as referenced by condition 2.2.1, to include the LON1B SBGs and associated emission points.

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

- Registered office address amended consistent with details on Companies House on GOV.UK.
- Condition 1.5.1, Climate change deleted in accordance with the current permit template.
- Table S1.3 Improvement programme requirements, as referenced by condition 2.4.1, to clarify that improvement conditions IC1 to IC3 are relevant to LON1A SBGs, that IC1 is superseded by IC4 and to amend IC3 wording to remove 'At least 1 month prior to operation of the additional 16 engines' (included in error, it is not a pre-operational condition).
- Table S1.4 Pre-operational measures, as referenced by condition 2.5.1, to clarify that pre-operational condition PO1 is relevant to LON1A SBGs and to amend wording from 'with this variation' to 'by variation EPR/CP3902LV/V002'.
- Table S3.1 Point source emissions to air – emission limits and monitoring requirements, as referenced by conditions 3.1.1, 3.5.1 and 3.5.4, to confirm that the 16 x 6.947 MWth SBGs are fitted with SCR and to update the LON1A source from 'gas oil generator exhausts' to 'SBG exhausts'.
- Table S4.1 Reporting of monitoring data, as referenced by condition 4.2.3, note 1 to the table is amended to refer to IC2 instead of IC4.
- Schedule 6, Interpretation, as referenced by condition 4.4.1, amended to include the relevant reference conditions for emissions to air from the SBGs (engines).

## Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

# Permit

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

### Permit number

**EPR/CP3902LV**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/CP3902LV/V003 authorising,

**NTT Global Data Centers EMEA UK Ltd** (“the operator”),

whose registered office is

**1 King William Street  
London  
England  
EC4N 7AR**

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.

<b>Name</b>	<b>Date</b>
<b>Eleanor Blackeby</b>	<b>17/12/2024</b>

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;
- (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.

### **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; and
  - (b) process monitoring specified in table S3.3.
- 3.5.2 The first monitoring measurements shall be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.
- 3.5.3 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.4 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.
  - (c) Where condition 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	Section 1.1 Part A1(a)  Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts.	<p>Operation of 52 emergency standby generators (SBGs) with a total thermal input of approximately 335.15 MWth.</p> <p>The SBGs will burn gas oil and/or hydrotreated vegetable oil (HVO) 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.</p> <p><u>LON1A - New MCPs</u> 12 x 4.1 MWth SBGs 16 x 6.947 MWth SBGs</p> <p><u>LON1B - New MCPs</u> 22 x 7.6 MWth SBGs 2 x 3.8 MWth SBGs</p> <p>2 x 0.206 MWth diesel-fired, firewater sprinkler pumps.</p>	<p>From receipt of raw materials and generation of electricity to despatch of waste.</p> <p>Including selective catalytic reduction (SCR) fitted to emission points: <u>LON1A</u> GEN 2-1 to GEN 3-4. <u>LON1B</u> GEN-01-HA to GEN-01-C6/4</p> <p>The emergency operational hours of the installation shall not exceed the specifications set out in condition 2.3.5 of this permit.</p> <p>No other testing at either LON1A or LON1B shall take place within the same 24-hour period as a LON1A black building (4-hour) test.</p> <p>LON1A black building tests are limited to a maximum of 4 hours within any 24-hour period.</p> <p>Electricity produced at the installation cannot be exported to the National Grid.</p>
Activity reference	Directly Associated Activity		
AR2	Storage of raw materials	From receipt of raw materials to use within the facility.	
AR3	Surface water drainage	From input to site drainage system until discharge to surface water sewer via interceptor (emission point SW1).	

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application EPR/CP3902LV/A001	Application forms B2 and B3 and all referenced supporting information.	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
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
Variation application EPR/CP3902LV/V002	Sections 1.2, 1.4, 1.6 and 1.8 of the application document in response to section 3a – technical standards, Part B3 of the application form.	18/04/2023
Variation application EPR/CP3902LV/V002 Generators maintenance testing schedule	Generators maintenance testing schedule detailed in application document 'Best Available Techniques and Operating Techniques' (ref. 410.V62278.00001).	18/04/2023
Variation application EPR/CP3902LV/V002 SCR abatement	NO <sub>x</sub> abatement efficiency for the selective catalytic reduction systems (SCR) fitted to emission points GEN 2-1 to GEN 3-4 detailed in application document 'Air Emissions Risk Assessment' (ref 410.V62278.00001).	09/02/2024
Variation application EPR/CP3902LV/V002 Response to request for information dated 21/12/2023	Response to information request, providing further information on the air quality risk assessment and application form C2.5: <ul style="list-style-type: none"> <li>• Updated Air Emissions Risk Assessment (ref. 410.V62278.00001). Including: <ul style="list-style-type: none"> <li>○ Appendix C: Modelling files</li> <li>○ Appendix D: Maintenance Schedule Model (MSM)</li> </ul> </li> <li>• Application form C2.5, February 2024. Including: <ul style="list-style-type: none"> <li>○ Appendix 1: Point source emissions to air resulting from proposed change</li> <li>○ Combustion Plant List Spreadsheet (ref. 410.V62278.00001)</li> </ul> </li> </ul>	09/02/2024
Response to schedule 5 dated 19/06/2024	Response to Schedule 5 providing further information on containment: <ul style="list-style-type: none"> <li>• Technical data sheet (ref.12776 Adblue tank GA)</li> <li>• Electrical services ground floor phase 2 electrical equipment layout drawing (ref. LON1A-RED-B1-00-DR-E-2000)</li> <li>• Electrical services ground floor phase 3 electrical equipment layout drawing (ref.LON1A-RED-B1-00-DR-E-2001)</li> <li>• Technical submittal 22 of (KD3500-E) Technical Description for (NTT Global Data Centers EMEA UK Ltd) at (NTT – Phase 2 Lon1) (ref. LON1-WBP-A-XX-TS-M-0022_Ver2)</li> </ul>	26/07/2024



Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to request for information dated 12/08/24	Updated Noise Assessment (ref.410.V62278.00001), V1.5, correcting the testing schedule.	12/08/2024
Variation application EPR/CP3902LV/V003	Best Available Techniques and Operating Techniques Assessment, LON Phase B, dated 26 July 2024, FINAL Rev 01, which includes technical standards, SCR abatement and the maintenance and testing schedule.  Combustion plant spreadsheet.	09/08/2024

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p><b>Air Quality Management Plan (AQMP) (LON1A)</b> The operator shall produce an AQMP 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:</p> <ul style="list-style-type: none"> <li>• The response should be tailored to reflect the predicted potential impact indicated by the air dispersion modelling at individual receptors;</li> <li>• Preventative and reactive actions to be implemented to limit the duration of an outage event to less than 50 hours as far as possible;</li> <li>• Specific timescales for response measures;</li> <li>• How local conditions during a grid failure might influence the response required, for example meteorological conditions or time of day;</li> <li>• Contingency for how the response will be carried out in the event scenario i.e. loss of power;</li> <li>• Timescales for continued review of the management plan; and</li> <li>• Addition of indicative air quality monitoring stations around the site to inform on air quality during extended periods of standby generator running including prolonged grid outages.</li> </ul> <p>The agreed Air Quality Management Plan shall be submitted to the Environment Agency for approval.</p>	Within 6 months from the date of issue of the permit variation EPR/CP3902LV/V002 (superseded by IC4)
IC2	<p><b>Monitoring plan - flue gas monitoring requirements (LON1A)</b> 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 20 March 2024 (formerly known as TGN M5). The plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> <li>• When the generators are not fitted with sampling ports, a proposal to install them within the shortest practical timeline;</li> <li>• 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 permit table S3.1.</li> </ul>	Within 3 months from the date of issue of the permit variation EPR/CP3902LV/V002

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC3	<p><b>Performance of SCR systems (LON1A)</b></p> <p>The operator shall submit a written report to the Environment Agency for assessment and written approval. The report must contain:</p> <ul style="list-style-type: none"> <li>• Detailed information on the specification of the suitability of the NOx sensors and urea solution dosing to the SCR systems.</li> <li>• Evidence of the initial calibration of the NOx sensors and verification of the levels of unabated and abated NOx emissions upstream and downstream of the SCR system according to a methodology consistent with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5).</li> <li>• Confirmation that the SCR systems achieve the NOx abatement performance stated in the application documents referred to in table S1.2, or a proposal for remedial actions when this is not achieved.</li> <li>• A plan to periodically calibrate the NOx sensors and verify the performance of the SCR systems, including the proposed frequencies.</li> </ul> <p>The operator must implement the proposals in the report in line with the timescales agreed within the Environment Agency's written approval.</p>	<p>Within 3 months from the date of issue of the permit variation EPR/CP3902LV/V002 or as agreed in writing with the Environment Agency</p>
IC4	<p><b>Air Quality Management Plan (AQMP) (LON1A and LON1B)</b></p> <p>The operator shall update the AQMP provided in response to IC1 in this table to include the LON1B SBGs. This shall be undertaken 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:</p> <ul style="list-style-type: none"> <li>• The response should be tailored to reflect the predicted potential impact indicated by the air dispersion modelling at individual receptors;</li> <li>• Preventative and reactive actions to be implemented to limit the duration of an outage event to less than 50 hours as far as possible;</li> <li>• Specific timescales for response measures;</li> <li>• How local conditions during a grid failure might influence the response required, for example meteorological conditions or time of day;</li> <li>• Contingency for how the response will be carried out in the event scenario i.e. loss of power;</li> <li>• Timescales for continued review of the management plan; and</li> <li>• Addition of indicative air quality monitoring stations around the site to inform on air quality during extended periods of standby generator running including prolonged grid outages.</li> </ul> <p>The agreed Air Quality Management Plan shall be submitted to the Environment Agency for approval.</p>	<p>Within 6 months from the date of issue of the permit variation EPR/CP3902LV/V003 (replaces IC1)</p>

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC5	<p><b>Performance of SCR systems (LON1B)</b></p> <p>The operator shall submit a written report to the Environment Agency for assessment and written approval. The report must contain:</p> <ul style="list-style-type: none"> <li>• Detailed information on the specification of the suitability of the NOx sensors and urea solution dosing to the SCR systems.</li> <li>• Evidence of the initial calibration of the NOx sensors and verification of the levels of unabated and abated NOx emissions upstream and downstream of the SCR system according to a methodology consistent with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5).</li> <li>• Confirmation that the SCR systems achieve the NOx abatement performance stated in the response to PO3 in table S1.4 of this permit, or a proposal for remedial actions when this is not achieved.</li> <li>• A plan to periodically calibrate the NOx sensors and verify the performance of the SCR systems, including the proposed frequencies.</li> </ul> <p>The operator must implement the proposals in the report in line with the timescales agreed within the Environment Agency's written approval.</p>	<p>Within 3 months from the date of issue of the permit variation EPR/CP3902LV/V003 or the date when the LON1B SGBs are first put into operation, whichever is later or as agreed in writing with the Environment Agency</p>

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Operation</b>
PO1	<p><b>Commissioning (LON1A)</b></p> <p>At least one month before operation of the 16 SGBs (model KDKD83V16), added by variation EPR/CP3902LV/V002, the operator shall submit a commissioning plan to the Environment Agency for approval.</p> <p>The plan shall provide timescales for the commissioning of the diesel generators and shall demonstrate that the commissioning of the diesel generators is covered within the site's permitted regular testing regime, thereby minimising durations and impacts.</p> <p>When the commissioning is not covered within the site's permitted regular testing regime, the operator shall submit an environmental risk assessment for approval by the Environment Agency, demonstrating that the environmental risks during the commissioning are minimised and remain not significant. The commissioning of the engines shall not begin prior to receiving written approval to the plan and associated environmental risk assessment by the Environment Agency.</p> <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p>

<b>Table S1.4 Pre-operational measures</b>	
<b>Reference</b>	<b>Operation</b>
PO2	<p><b>Commissioning (LON1B)</b></p> <p>At least one month before operation of the 24 LON1B SBGs added by variation EPR/CP3902LV/V003, the operator shall submit a commissioning plan to the Environment Agency for approval.</p> <p>The plan shall provide timescales for the commissioning of the SBGs and shall demonstrate that the commissioning of the SBGs is covered within the site's permitted regular testing regime, thereby minimising durations and impacts.</p> <p>When the commissioning is not covered within the site's permitted regular testing regime, the operator shall submit an environmental risk assessment for approval by the Environment Agency, demonstrating that the environmental risks during the commissioning are minimised and remain not significant. The commissioning of the SBGs shall not begin prior to receiving written approval to the plan and associated environmental risk assessment by the Environment Agency.</p> <p>The plan shall be implemented in accordance with the Environment Agency's written approval.</p>
PO3	<p><b>SCR systems (LON1B)</b></p> <p>Prior to the commencement of commissioning of the LON1B SBGs, the operator shall submit a written report to the Environment Agency, and obtain the Environment Agency's written approval to it, detailing the technical specification of the SCR systems for the LON1B SBGs. The report shall include:</p> <ul style="list-style-type: none"> <li>• NOx abatement performance;</li> <li>• Information to demonstrate that the NOx air quality impacts provided with application EPR/CP3902LV/V003 still reflect the predicted impacts; and</li> <li>• Storage arrangements for the SCR raw materials.</li> </ul> <p>The LON1B SCR systems shall be implemented in accordance with the written approval from the Environment Agency.</p>

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

<b>Table S2.1 Raw materials and fuels</b>	
<b>Raw materials and fuel description</b>	<b>Specification</b>
Gas oil or equivalent substitute to be agreed in writing with the Environment Agency	Sulphur content 0.001% (w/w) max

## Schedule 3 – Emissions and monitoring

Emission point ref. & location <small>Note 4</small>	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency <small>Note 2</small>	Monitoring standard or method <small>Note 3</small>
<p><u>LON1A</u> 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</p> <p>From SBGs as shown on the site plan in Schedule 7 of this permit and the 'Site Layout and Emissions Points' plan submitted on 29/03/2023 with application EPR/CP3902LV/V002.</p>	SBG exhausts  12 x 4.1 MWth SBGs	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5)	Every 1,500 hours of operation or once every five years (whichever comes first). <small>Note 1</small>	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (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 20 March 2024 (formerly known as TGN M5)	Every 1,500 hours of operation or once every five years (whichever comes first). <small>Note 1</small>	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5)
		Sulphur dioxide	No limit set	-	-	-
		Particulates	No Limit set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location Note 4	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency Note 2	Monitoring standard or method Note 3
<p><u>LON1A (fitted with SCR)</u> GEN 2-1, GEN 2-2, GEN 2-3, GEN 2-4, GEN 5-1, GEN 5-2, GEN 5-3, GEN 5-FO, GEN 4-3, GEN 4-2, GEN 4-1, GEN 3-1, GEN 3-2, GEN 3-3, GEN 3-4</p> <p>From SBGs as shown on the site plan in Schedule 7 of this permit and the 'Site Layout and Emissions Points' plan submitted on 29/03/2023 with application EPR/CP3902LV/V002.</p>	<p>SBG exhausts</p> <p>16 x 6.947 MWth SBGs</p>	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5)	Every 1,500 hours of operation or once every five years (whichever comes first). <sup>Note 1</sup>	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (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 20 March 2024 (formerly known as TGN M5)	Every 1,500 hours of operation or once every five years (whichever comes first). <sup>Note 1</sup>	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5)
		Sulphur dioxide	No limit set	-	-	-
		Particulates	No limit set	-	-	-
		Ammonia (from SCR)	No limit set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location Note 4	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency Note 2	Monitoring standard or method Note 3
<u>LON1B (fitted with SCR)</u> GEN-01-HA, GEN-01-HB GEN-01-C1/1, GEN-01-C1/2 GEN-01-C1/3, GEN-01-C2/1 GEN-01-C2/2, GEN-01-C2/3 GEN-01-C2/4, GEN-01-C3/1 GEN-01-C3/2, GEN-01-C3/3 GEN-01-C3/4, GEN-01-C4/1 GEN-01-C4/2, GEN-01-C4/3 GEN-01-C5/1, GEN-01-C5/2 GEN-01-C5/3, GEN-01-C5/4 GEN-01-C6/1, GEN-01-C6/2 GEN-01-C6/3, GEN-01-C6/4  From SBGs as shown on the site plan in Schedule 7 of this permit and the 'Site Layout and Emissions Points' plan submitted with application EPR/CP3902LV/V003.	SBG exhausts	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5)	Every 1,500 hours of operation or once every five years (whichever comes first). <sup>Note 1</sup>	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5)
	22 x 7.6 MWth SBGs					
	2 x 3.8 MWth SBGs	Carbon monoxide	No limit set	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5)	Every 1,500 hours of operation or once every five years (whichever comes first). <sup>Note 1</sup>	In line with web guide 'Monitoring stack emissions: low risk MCPs and specified generators' Published 20 March 2024 (formerly known as TGN M5)
		Sulphur dioxide	No limit set	-	-	-
		Particulates	No limit set	-	-	-
	Ammonia (from SCR)	No limit set	-	-	-	



<b>Table S3.1 Point source emissions to air – emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> <small>Note 4</small>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b> <small>Note 2</small>	<b>Monitoring standard or method</b> <small>Note 3</small>
Vents associated with liquid fuel storage tanks (located beneath each of the 52 SBGs).	Vents from storage tanks for: LON1A SBGs (GEN H-1 to GEN 3-4) and LON1B SBGs (GEN-01-HA to GEN-01-C6/4)	No parameters set	No limit set	-	-	-
<p>Note 1: Unless otherwise agreed in writing with the Environment Agency as a result of approval of Improvement Condition IC2.</p> <p>Note 2: In accordance with condition 3.5.2 of this permit.</p> <p>Note 3: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised oxygen content of 15% for the SBGs.</p> <p>Note 4: Monitoring requirements are applicable to each SBG emission point.</p>						

<b>Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements</b>						
<b>Emission point ref. &amp; location</b> <small>Note 1</small>	<b>Source</b>	<b>Parameter</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
SW1	Surface water via oil interceptor	No parameters set	No limits set	-	-	-

Note 1: Emission point shown on the 'Site Layout and Emissions Points' plan submitted on 29/03/2023 with application EPR/CP3902LV/V002. Emission to Thames Water surface water sewer.

<b>Table S3.3 Process monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
<u>LON1A</u> GEN 2-1 to GEN 3-4 <u>LON1B</u> GEN-01-HA to GEN-01-C6/4  from SBGs as shown on site plan in Schedule 7 of this permit	SCR abatement efficiency	Continuous	Continuous reading of NOx sensors fitted to SCR system to manufacturer's specification.  Periodic validation according to the plan approved by the Environment Agency in response to improvement conditions IC3 and IC5 in table S1.3 of this permit.	For LON1A, minimum abatement of NOx, in accordance with operating techniques in application documents listed in table S1.2 of this permit.  For LON1B, minimum abatement of NOx, in accordance with PO3 in table S1.4 of this permit.

## 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.	<u>LON1A</u> GEN H-1 to GEN 6-FO	Every 1,500 hours of operation or once 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. <sup>Note 1</sup>
	<u>LON1A</u> GEN 2-1 to GEN 3-4		Within 4 months of the issue date of the permit variation EPR/CP3902LV/V002, or the date when the engine is first put into operation, whichever is later. <sup>Note 1</sup>
	<u>LON1B</u> GEN-01-HA to GEN-01-C6/4		Within 4 months of the issue date of the permit variation EPR/CP3902LV/V003, or the date when the engine is first put into operation, whichever is later.
Process monitoring parameters as required by condition 3.5.1.	<u>LON1A</u> GEN 2-1 to GEN 3-4 <u>LON1B</u> GEN-01-HA to GEN-01-C6/4	Annually	January
Note 1: Unless otherwise agreed in writing with the Environment Agency as a result of approval of improvement condition IC2.			

<b>Table S4.2 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Gas oil (or equivalent substitute agreed in writing with the Environment Agency) usage	Annually	Tonnes
<u>LON1A and LON1B</u> AdBlue usage	Annually	Tonnes
<u>LON1A and LON1B</u> SBG operation for maintenance	Report to be submitted annually	<ul style="list-style-type: none"> <li>Total hours for the site (hours)</li> <li>Total hours per SBG (hours)</li> <li>Total number of runs per SBG (quantity)</li> <li>Number of minutes per run (minutes)</li> </ul>
<u>LON1A and LON1B</u> SBG operation during emergency scenario	Within 24 hours if operation commences	<ul style="list-style-type: none"> <li>Date and time of grid failure</li> <li>Number of SBGs operating immediately after the failure</li> <li>Number of SBGs operating two hours after failure</li> <li>Anticipated duration of the mains supply failure (hours)</li> </ul>
<u>LON1A and LON1B</u> SBG operation during emergency scenario	Annually	<ul style="list-style-type: none"> <li>Total number of runs (quantity)</li> <li>Duration of runs (hours)</li> </ul>
<u>LON1A and LON1B</u> Operations of SCR systems	Annually	<ul style="list-style-type: none"> <li>Gas oil usage in each SBG fitted with SCR</li> <li>Readings of NO<sub>x</sub> sensors</li> <li>NO<sub>x</sub> abatement efficiency</li> <li>Evidence of periodic calibration with frequency specified according to Environment Agency's approval of improvement conditions IC3 and IC5 in table S1.3 of this permit</li> </ul>

<b>Table S4.3 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Emissions to Air Reporting Form or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance indicators	Form 'performance 1' or other form as agreed in writing by the Environment Agency	As agreed with the Environment Agency
Generator operation during emergency scenario	Form 'emergency scenario' or other form as agreed in writing by the Environment Agency	As agreed with the Environment Agency
Process monitoring parameters	Process Monitoring Form, or other form as agreed in writing by the Environment Agency	08/03/2021

## 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	

<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	
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.

“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.

‘existing MCP’ means an MCP first put into operation before 20/12/2018.

“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.

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

“medium combustion plant” or “MCP” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

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

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

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

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.



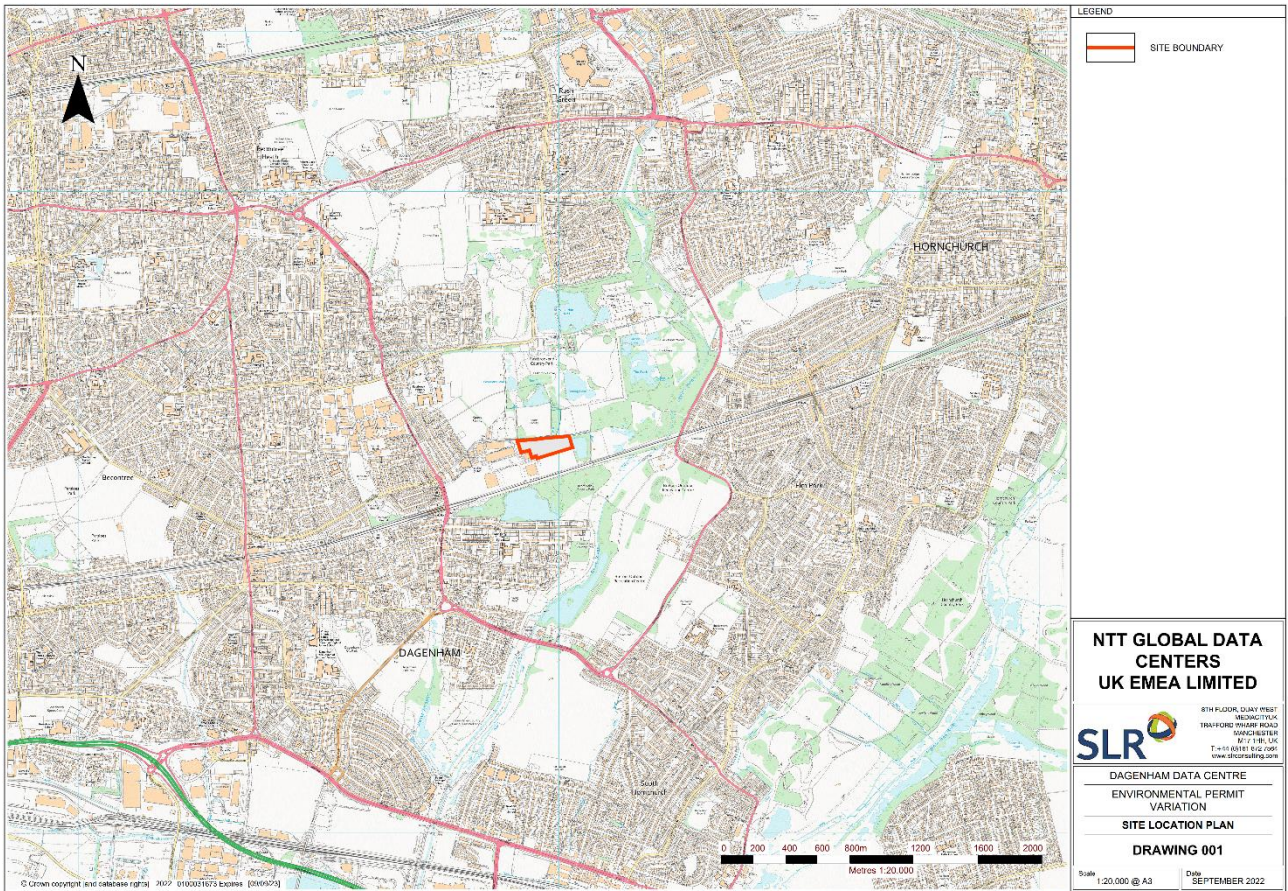
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- 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 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

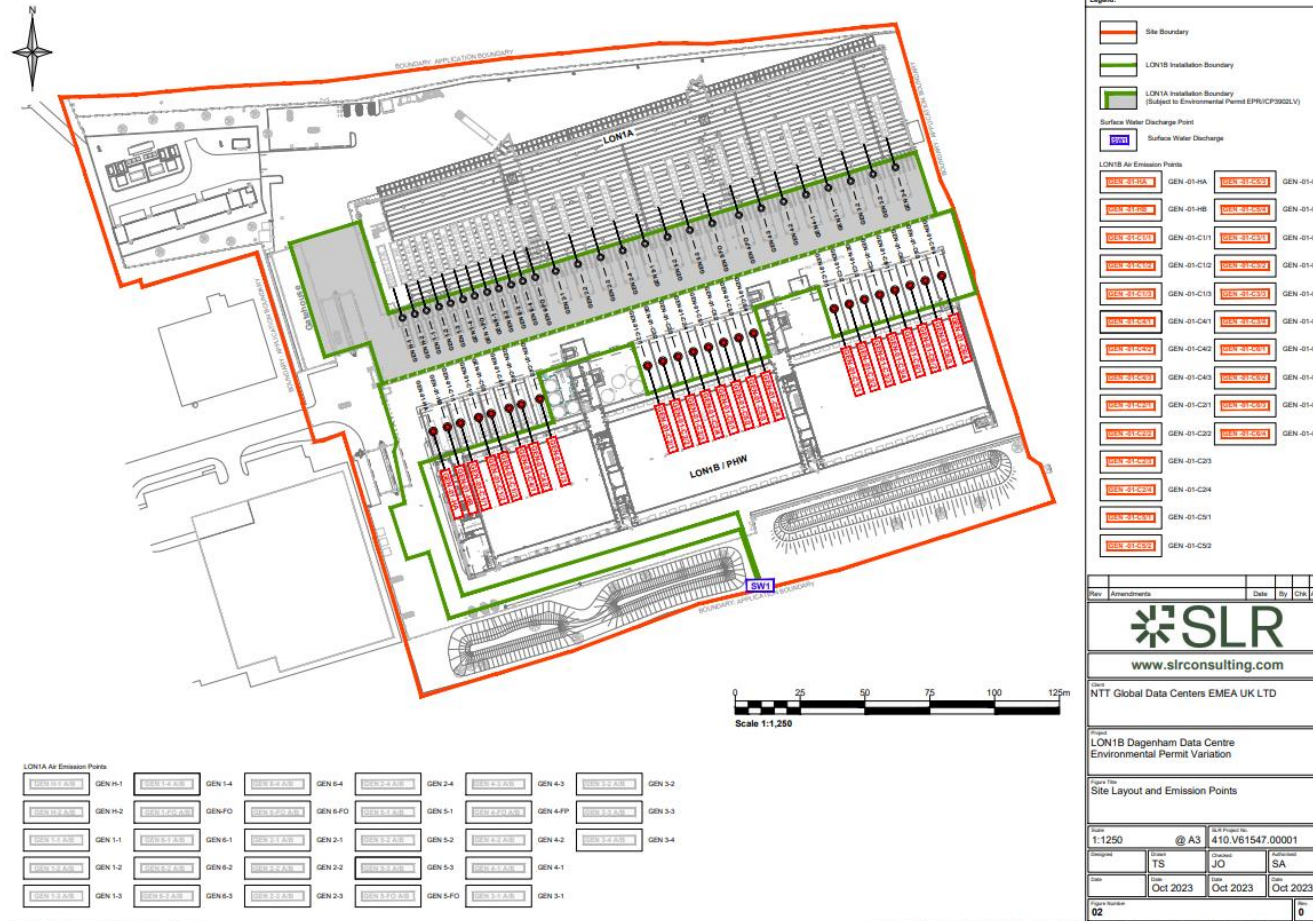
## Site Location Plan



© Crown Copyright and Database Rights 2024 OS AC000807064

# Installation boundary plan

Showing installation boundary and emission points as referenced by condition 2.2.1.



© Crown Copyright and Database Rights 2024 OS AC000807064.

END OF PERMIT

Permit number  
EPR/CP3902LV