# Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

**MSFT MCIO Limited**

**Newport Campus**
**Celtic Lakes**
**Celtic Way**
**Duffryn**
**Newport**
**NP10 8BE**

Permit number

**EPR/DB3691FK**

# Newport Campus
# Permit number EPR/DB3691FK

# Introductory note

## This introductory note does not form a part of the permit

The main features of the permit are as follows.

The permit regulates a Section 1.1 Part A (1) (a) installation activity under the Environmental Permitting (England and Wales) Regulations 2016 ("EPR") for the burning of any fuel in an appliance with a rated thermal input of 50 or more megawatts. The site consists of 31 standby diesel generators and 2 standby fire water pumps with an aggregated thermal input rating of 253.8 MW. They will provide back-up generation for Newport Campus in the event of a power supply failure from the National Grid. Each generator has its own individual stack and generators are enclosed in containers. The generators have the capability to run on hydrotreated vegetable oil (HVO). The 31 stanby diesel generators are fitted with selective catalytic reduction (SCR) abatement to reduce the emission of oxides of nitrogen ($NO_x$) from the stacks.

There are two component data centre buildings ("data halls"), named CWL01 and CWL02, which each contain data storage, internal and external ancillary equipment. Twenty of the standby generators are located at the CWL01 data hall and 8 generators are located at the CWL02 data hall. There is also a water treatment plant that treats the water used in the server room cooling. This is located to the south of CWL01. The water treatment plant is for the treatment of water used in server room cooling and is not associated with the operation of the generators.

There are two administrative building generators for the provision of emergency back-up generation to fulfil the site's non-data hall energy demand. One will be located in CWL01 and the other in CWL02. One generator will provide emergency back-up generation to power the site's water treatment plant. These engines will also be fitted with SCR.

There are two small diesel-fuelled engines that power fire water pumps. These have a net rated thermal input of 0.45 MW each.

The permit regulates testing and maintenance activity and operation of the engines as the emergency back-up generation, which is further controlled under an Air Quality Management Plan (AQMP). The engines will be used solely for the purpose off generating power for the facility in the event of mains supply failure. No electricity will be exported from the installation.

The generator specifications are as follows:

- 28 data hall engines are all CAT C175-20 (EM13161_07) engines with net rated thermal inputs ($MW_{th}$) of 8.8
- 2 adminstrative building engines are CAT C32 engines with net rated thermal input ($MW_{th}$) of 2.7
- 1 water treatment plant engine is CAT C15 engine with net rated thermal input ($MW_{th}$) of 1.1
- 2 fire water pump engines are Clarke JU6H-UF34 with net rated themal input ($MW_{th}$) of 0.45

Stack heights for the 31 standby generators are 14.5 m.

The engines are in “3n+1” configuration, meaning the site has three more engines than is required to fully power the associated load demand, plus one. This means that full backup power is still provided if one engine is unavailable.

Each engine has a rated thermal input between 0 MW and 50MW and is not subject to Chapter III of Industrial Emissions Directive 2010/72/EU (IED). Therefore, the data hall, administrative building and water treatment plant engines are considered Medium Combustion Plant (MCP) and subject to Schedule 25A of EPR. Each operates less than 500 hours per year and therefore are considered Limited Operating Hours MCP and exempt from the emission limit values within Schedule 25A of EPR. These engines are considered new MCP as they were first put into operation after 20 December 2018. The fire water pumps are not considered to be MCPs, as the rated thermal input of each engine is <1 MW. As none of the engines export electricity to the National Grid, they are considered to be ‘excluded generators’ as defined in Schedule 25B of EPR.

The emissions from the installation will primarily comprise combustion gases including oxides of nitrogen. The engines meet the TA-Luft “2g” performance specification, which is considered Best Available Technique (BAT) technology as defined in the EA’s Data Centre FAQ guidance. BAT is also employed in minimising the likelihood of mains supply failure, via measures such as having 2 direct and independent connections to the National Grid high voltage network which has a reported reliability of at least 99.999 %. In the unlikely event of a mains power failure, the site’s Uninterruptable Power Supply (UPS) will buffer small fluctuations in power supply. The UPS can supply power to the site for several minutes. If the UPS detects power failure or extended reduced power, some, or all of the generators will start automatically to begin generating sufficient electricity to match the load required by the data centre.

The hours of operation for the testing of the stand-by diesel generators is restricted to 0900 hrs to 1700 hrs Monday to Friday and at no times on weekends or Bank or Public Holidays.

Planned testing and maintenance scenarios are:

1. Monthly test – 15 minutes, 8 times per year at 30% engine loading;
2. Quarterly test – 30 minutes, 3 times per year at 70% engine loading;
3. Annual test – one hour, once per year at 100% engine loading;
4. Annual PIT test – 90 minutes, once per year at 60% engine loading;
5. Unit Substation (USS) Switchgear (Quinquennial) test – 90 minutes, once every five years at 60% engine loading; and
6. Uninterruptable Power Supply (UPM) Switchgear (Quinquennial) test – 90 minutes, once every five years at 60% engine loading.

With the exception of Scenarios 5 and 6, there is no overlapping of the testing scenarios.

Operation of the engines shall only be permitted under the following conditions:

- Planned operation of the engines for testing purposes (single engine);
- Unscheduled testing following unplanned repair (single engine); and
- Unplanned emergency operation for backup power provision in the event of failure of supply from the National Grid (all engines).

All fuel and other fluids (e.g. AdBlue for the SCR system) are suitably bunded, including pipe lines where present to provide at least secondary containment. Each generator has fuel supply capacity for 48 hours of operation, provided by individual engine tanks. There is no fuel interconnection between engine tanks. Engines and fuel supply are suitably located on hardstanding.

Uncontaminated surface water is routed to a Sustainable Urban Drainage System (SuDS) which will remove relevant pollutants from the surfaced water runoff. Treatments used on-site include the use of permeable pavement; ponds to store surface drainage; and petrol

interceptors, to filter out hydrocarbon contaminants. Uncontaminated surface water is discharged to the environment via the emission point W1. There are also no point source discharges sewer.

The site is located on an Industrial Estate at Celtic Way, Newport. The surrounding area is a mix of industrial, commercial and residential use along with environmentally sensitive receptors. Nearby designated sites that have been considered in assessments are the Gwent Levels – St Brides Site of Special Scientific Interest, River Usk Special Area of Conservation, and Severn Estuary Special Area of Conservation, Special Protection Area & Ramsar, along with surrounding Local Wildlife Sites.

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 PAN-026552 | Duly made 20/02/2025 | Application for a combustion activity providing emergency power supply to a data centre. |
| Informal request for more information | 04/04/2025 | Information sought regarding air quality assessment. |
| Response received | 08/04/2025 | Information regarding air quality assessment received |
| Schedule 5 No. 1 request for more information | 30/04/2025 | Information sought regarding noise assessment. |
| Schedule 5 No. 2 request for more information | 08/05/2025 | Information sought regarding air quality assessment. |
| Response to Schedule 5 No. 2 received | 05/06/2025 | Information regarding air quality assessment received. |
| Response to Schedule 5 No. 1 received | 12/06/2025 | Information regarding noise assessment received. |
| Schedule 5 No. 2 request for more information - reissued | 08/05/2025 | Information sought regarding air quality assessment. |
| Response to revised Schedule 5 No. 2 received | 13/08/2025 | Information regarding air quality assessment received. |
| Informal request for more information | 21/08/2025 | Information sought regarding air quality assessment. |
| Response received | 27/08/2025 | Information regarding air quality assessment received. |
| Schedule 5 No. 2 request for more information - reissued<br><br>Schedule 5 No. 3 request for more information | 25/09/2025 | Information sought regarding air quality assessment. |
| Response to revised Schedule 5 No. 2 and Schedule 5 No. 3 received | 08/10/2025 | Information regarding air quality assessment received. |
| Informal request for more information | 03/12/2025 | Revised Site Plan requested |

| Status log of the permit | | |
|---|---|---|
| **Description** | **Date** | **Comments** |
| Response received | 09/12/2025 | Revised Site Plan received |
| Permit determined | 29/01/2026 | Permit issued to MSFT MCIO Ltd. |

End of introductory note.

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
**EPR/DB3891FK**

The Natural Resources Body for Wales ("Natural Resources Wales") authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**MSFT MCIO Limited** ("the operator"),

whose registered office is

**1 Blossom Yard**
**Fourth Floor**
**London**
**United Kingdom**
**E1 6RS**

company registration number **09616816**

to operate an installation at

**Newport Campus**
**Former Quinn Radiator Manufacturing Site**
**Imperial Business Park**
**Celtic Way**
**Duffryn**
**Newport**
**NP10 8BE**

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

| Signed | Date |
|---|---|
| **Jennifer McGuire** | **29/01/2026** |

Authorised on behalf of Natural Resources Wales

# Conditions

# 1 Management

## 1.1 General management

1.1.1 The operator shall manage and operate the activities:

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

(b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

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

## 1.2 Energy efficiency

1.2.1 The operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities.

(b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures identified by a review.

## 1.3 Efficient use of raw materials

1.3.1 The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

## 1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

# 2 Operations

## 2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

## 2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

## 2.3 Operating techniques

2.3.1 (a) 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 S1.2a, unless otherwise agreed in writing by Natural Resources Wales.

(b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2a 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 Natural Resources Wales.

2.3.2 The activities shall be operated using the techniques and, in the manner, described in schedule 1, table S1.2b.

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

2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

(a) the nature of the process producing the waste;

(b) the composition of the waste;

(c) the handling requirements of the waste;

(d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.3.6 The activities shall not operate for more than 500 hours in emergency use per year.

## 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 Natural Resources Wales.

2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

# 3 Emissions and monitoring

## 3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Limited Operating Hours MCPs shall:

(a) not exceed 500 hours operation in a 12-month period as a rolling average over a 3 year period for new MCP and thereafter annually.

(b) not exceed 500 hours operation in a 12-month period as a rolling average over a 5 year period for existing MCP and thereafter annually.

(c) Not to be operated for more than 750 hours in any single year

3.1.4 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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

## 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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

## 3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, 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 Monitoring shall not take place during periods of start up or shut down.

3.5.4 The first monitoring measurements shall be carried out:

(a) For new MCP within four months of the issue date of the permit or the date when the new MCP is first put into operation, whichever is later.

# 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 Natural Resources Wales, 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 Natural Resources Wales.

4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP.

4.1.4 The operator shall maintain a record of any events of non-compliance and the measures taken to ensure compliance is restored in the shortest possible time

## 4.2 Reporting

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

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 (a) In the event 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 Natural Resources Wales,

(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) in the event of a breach of any permit condition the operator must immediately—

(i) inform Natural Resources Wales, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) in the event 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 Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales 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.

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) Natural Resources Wales 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 Natural Resources Wales 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, Natural Resources Wales 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 listed in the EP Regulations and general description | Description of specified activity | Limits of specified activity |
|---|---|---|
| Schedule 1 Part 2 Section 1.1 Part A(1) (a) : Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts<br><br>Consisting of individual Schedule 25A: Medium Combustion Plant<br><br>Combustion of diesel and / or hydrotreated vegetable oil in 30 compression ignition engines for the purpose of electricity generation with a total thermal input of 253.8 MW.<br><br>Operation consisting only of:<br>• Planned operation of the engines for testing purposes (single engine)<br>• Unscheduled testing following unplanned repair (single engine)<br>• Unplanned emergency operation for backup power provision in the event of failure of supply from the National Grid (all engines) | 28 engines (new MCP) each fitted with Selective Catalytic Reduction (SCR) for $NO_x$ control (A1 – A28) comprising:<br>• 28 x 8.8 $MW_{th}$<br><br>2 engines (new MCP) each fitted with Selective Catalytic Reduction (SCR) for $NO_x$ control (A29-A30) comprising:<br>• 2 x 2.7 $MW_{th}$<br><br>1 engine (new MCP) fitted with Selective catalytic reduction (SCR) for $NO_x$ control (A31) comprising:<br>• 1 x 1.1 $MW_{th}$<br><br>2 fire water pumps (A32-A33) comprising:<br>• 2 x 0.45 $MW_{th}$<br><br>An aggregated maximum thermal input of 245 MW. | From receipt of raw materials to combustion of fuel and release of exhaust gases to atmosphere. Distribution of emergency standby electrical power to the data centre.<br><br>Electricity produced at the installation shall not be used to provide commercial services to the National Grid or Distribution Network Operator.<br><br>The hours of operation for the testing of the stand-by diesel generators shall be restricted to 0900 to 1700 Monday to Friday and at no times on weekends or Bank or Public Holidays.<br><br>There shall be no overlapping of any type of testing scenarios.<br><br>Testing scenarios shall not be carried on outside the parameters detailed below:<br><br>Testing operation shall be minimised and in any case shall not exceed 50 hours per year per engine.<br><br>No more than 500 operating hours per MCP per year.<br><br>Engine stack heights emission points A1 to A31 are 14.5 metres as specified in the permit application. |

| Scenario | Duration (maximum) (minutes) | Frequency per year[1] / five years[2] | Loading per engine (maximum) (%) |
|---|---|---|---|
| Monthly | 15 | 8[1] | 30 |
| Quarterly | 30 | 3[1] | 70 |
| Annual | 60 | 1[1] | 100 |
| Annual PIT | 90 | 1[1] | 60 |
| Unit Substation (USS) Switchgear (Quinquennial) test | 90 | 1[2] | 60 |
| Uninterruptable Power Supply (UPM) Switchgear (Quinquennial) test | 90 | 1[2] | 60 |

| Table S1.1 activities | | |
|---|---|---|
| **Activity listed in the EP Regulations and general description** | **Description of specified activity** | **Limits of specified activity** |
| | | The operator shall immediately cease or reduce unplanned emergency operation if there is credible information that, as a result of such operation and any other sources of nitrogen dioxide ($NO_2$), there may be an immediate danger to human health or the threat of an immediate significant adverse effect on the environment. Such impact shall be indicated by factors including but not limited to:<br>• AEGL 2 $NO_2$ level of 12,600 µg/$m^3$ has been breached at one or more sensitive human receptors; and<br>• AEGL 1 $NO_2$ level of 940 µg/$m^3$ has been exceeded continuously for more than 8 hours at one or more sensitive human receptors.<br><br>Such credible information may be as a result of information obtained by the operator, or notification by Natural Resources Wales or other Statutory Regulatory Body. Continued operation may only be at a level (number of engines) which does not present an immediate danger to human health or the threat of an immediate significant adverse effect on the environment, nor pose further risk of exceedance any of the above standards. |
| Directly associated activity | Fuel storage - Fuel tanks provide generators with fuel ( diesel or Hydrotreated vegetable Oil) for the above schedule 1 activity | From receipt of fuel to despatch for use in emergency standby generators. |
| Directly associated activity | Surface water drainage system servicing area in which schedule 1 activity takes place | Input to Sustainable urban Drainage System (SuDS) to discharge to receiving environment. |
| Directly associated activity | Chemical storage – AdBlue storage tanks for the above schedule 1 activity | From receipt of AdBlue to despatch for use in in emergency generators fitted with Selective Catalytic Reduction (SCR). |

| Table S1.2a Operating techniques | | |
|---|---|---|
| **Description** | **Parts** | **Date Received** |
| Application PAN-026552 | MSFT MCIO Limited Environmental Permit Application – Application Supporting Information. All parts. | 12/02/2025 |
| Schedule 5 Notice request dated 30/04/2025 | Response to Schedule 5 Notice - report date 12th June 2025 (version 2) . Information relating to noise assessment. All parts. | 12/06/2025 |
| Schedule 5 Notice Requests dated 08/05/2025 and 25/09/2025 | Response to Schedule 5 Notice - report date 8th October 2025 (version 7). Information relating air quality assessment. All parts. | 08/10/2025 |

| Table S1.2b Operating techniques for Medium Combustion Plant as detailed in Schedule 8 |
|---|
| **Description** |
| Each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this |
| The operator must keep periods of start-up and shut-down of each MCP as short as possible |
| There must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993 |
| A Limited Operating Hours MCP which is an excluded generator may only be operated for the sole purpose of maintaining power supply to a site during an on-site emergency and it may not participate in any balancing services |
| A Limited Operating Hours MCP which is an excluded generator may only be operated for the sole purpose of testing no more than 50 hours per year |

| Table S1.3 Improvement programme requirements | | |
|---|---|---|
| **Reference** | **Requirement** | **Date** |
| IC1 | The operator shall develop and submit a site-specific Air Quality Management Plan AQMP in conjunction with the Local Authority which identifies the emergency operating conditions (grid failure) when Local Air Quality may be adversely impacted by emissions to air from the installation. This shall include but not be limited to the following considerations:<br>• predicted potential impacts indicated by the air modelling at individual sensitive human receptors;<br>• timescales for response measures;<br>• how local conditions during a grid failure might influence the response required, for example meteorological conditions or time of day;<br>• contingency for how the response will be carried out in the event scenario i.e. loss of power;<br>• co-ordination and co-operation arrangements with co-located backup facilities which may be operating at the same time; and<br>• timescales for continued review of the management plan.<br>The agreed AQMP shall be submitted to Natural Resources Wales for approval. | 29/07/2026 unless otherwide agreed in writing with NRW |

| Table S1.3 Improvement programme requirements | | |
|---|---|---|
| **Reference** | **Requirement** | **Date** |
| IC2 | Following successful commissioning and establishment of routine steady operation, the Operator shall undertake a BS 4142:2014+A1:2019 noise impact assessment following guidance set out in Noise and Vibration Management: Environmental Permits and Method implementation document (MID) for BS 4142, to demonstrate that impacts do not exceed those specified in the Noise Impact Assessments submitted with the application dated 02/08/2024 and 09/06/2025. | No more than 3 months from the date of completion of engine commissioning unless otherwise agreed in writing with NRW |
| IC3 | The operator shall produce a report outlining the maintenance and operating regime following the first year of operation after permitting. This shall include but is not limited to the following:<br>• An update on the control systems used to carry out the testing of the generators and how these have been used to minimise emissions and;<br>• Any additional improvements that have been identified to reduce emissions during the maintenance testing and operation of the generators. This should include timescales for the implementation of the improvements.<br>The operator shall submit this report in writing to Natural Resources Wales. | 29/04/2026 unless otherwise agreed in writing with NRW |
| IC4 | The operator shall update the Diesel Spillage and Emergency Response Procedures submitted with application reference PAN-026552 and submit them to Natural Resources Wales for approval by the date specified. | 29/04/2026 |
| IC5 | The operator shall update its existing Environment Management System to incorporate all the activities now covered by this permit in accordance with BAT 1 of the BAT Conclusions for Large Combustion Plant, under Directive 2010/75/EU of the European Parliament and of the Council. The Environmental Management System shall incorporate the Diesel Spillage and Emergency Preparedness Procedures referred to in IC5. The operator shall submit the updated Environment Management System to Natural Resources Wales for approval by the date specified. | 29/04/2026 |
| IC6 | The Operator shall undertake verification work to demonstrate that engine exhaust emission levels for the engines fitted with Selective Catalytic Reduction (SCR) for NOx control do not exceed those outlined in the application air quality assessment for oxides of nitrogen (NO plus $NO_2$ expressed as $NO_2$) and for ammonia ($NH_3$) A detailed plan of the verification work to be carried out shall be submitted to NRW for approval. A written report of the work and its results shall be submitted to Natural Resources Wales for approval. This shall:<br>• demonstrate the performance stated in the application,<br>• demonstrate that $NO_X$ emissions performance stated in the application (190 mg/$m^3$ @ reference conditions 15% oxygen) is achieved for all operational scenarios, including short duration operation of 10-15 minutes (as an average over that operating period from cold start-up)<br>• cover performance for any fuels utilised by the engines on site (diesel and Hydrotreated Vegetable Oil)<br><br>If verified emission levels are higher than those predicted in the application, include an assessment of the most suitable techniques to improve performance to achieve those levels, an estimate of the cost and a proposed timetable for their implementation. It is anticipated that the verification will include measurements of emissions from the engines once installed, in which case such measurements shall meet the MCERTs standard. If verification is possible by other means (e.g. by using manufacturers' data) then this should be justified in the verification plan referred to above. | No more than 12 months from the date of completion of engine commissioning unless otherwise agreed in writing with NRW |

| Table S1.3 Improvement programme requirements | | |
|---|---|---|
| **Reference** | **Requirement** | **Date** |
| IC7 | The operator shall submit to Natural Resources Wales a climate change risk assessment that includes current and future climate change projections.<br>The assessment must be site specific and uses the most up to date climate projections to:<br>• plan and manage the risks associated with a 2°C rise by 2050<br>• assess the risks associated with a 4°C rise by 2100<br>• avoid lock-in to future proof your site<br>• consider internal, external and consequential climate change impacts<br>• develop a plan to regularly update the assessment based on new data or emerging climate trends | 01/03/2026 |

# Schedule 2 - Waste types, raw materials and fuels

| Table S2.1 Raw materials and fuels | |
|---|---|
| **Raw materials and fuel description** | **Specification** |
| Diesel | < 0.1% sulphur content by weight |
| Hydrotreated Vegetable Oil (HVO) | BS EN15940 or BS EN590 or EN 2869 or EN14214 |
| Mineral lube oil | - |
| AdBlue | - |

# 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 | Reference period | Monitoring frequency | Monitoring standard or method |
|---|---|---|---|---|---|---|
| A1-A28 Data Hall MCPs [Points A1-A28 on site plan reproduced in Schedule 7] | Generator exhausts (new MCP)<br><br>28 x 8.8 $MW_{th}$ CAT C175-20 (EM13161_07) | Carbon Monoxide | No limit set | In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators | After 3 times the maximum average annual operating hours have elapsed and no less frequent than every 5 years | Representative engine monitoring in line with web guide: Monitoring stack emissions: low risk MCPs and specified generators |
| A29-A30 Administrative Building MCPs [Points A29-A30 on site plan reproduced in Schedule 7] | Generator exhausts (new MCP)<br><br>2 x 2.7 $MW_{th}$ CAT C32 | Carbon Monoxide | No limit set | In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators | After 3 times the maximum average annual operating hours have elapsed and no less frequent than every 5 years | Representative engine monitoring in line with web guide: Monitoring stack emissions: low risk MCPs and specified generators |
| A31 Water Treatment Plan engine [Point A31 on site plan reproduced in Schedule 7] | Generator exhaust (new MCP)<br><br>1 x 1.1 $MW_{th}$ CAT C15 | Carbon Monoxide | No limit set | In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators | After 3 times the maximum average annual operating hours have elapsed and no less frequent than every 5 years | Representative engine monitoring in line with web guide: Monitoring stack emissions: low risk MCPs and specified generators |
| A32-A33 Fire Water Pumps [Points A32-A33 on site plan reproduced in Schedule 7] | Generator exhausts<br><br>2 x 0.45 $MW_{th}$ Clarke JU6H-UF34 | None | No limit set | None | None | None |
| Vents associated with each fuel storage tank | Vents from storage tanks | No parameters set | No limit set | - | No monitoring required | - |

| Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements | | | | | | |
|---|---|---|---|---|---|---|
| **Emission point ref. & location** | **Source** | **Parameter** | **Limit** | **Reference period** | **Monitoring frequency** | **Monitoring standard or method** |
| Emission point W1 [Point W1 on site plan reproduced in Schedule 7] | Uncontaminated site surface water run-off including rainwater | No parameter set | No limit set | -- | - | - |

# Schedule 4 - Reporting

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

**Table S4.1 Reporting of monitoring data**

| Parameter | Emission or monitoring point/reference | Reporting period | Period begins |
|---|---|---|---|
| Emissions to air Parameters as required by condition 3.5.1. | A1 – A30 | Annually (for any monitoring undertaken in the calendar year) | 1 January |

**Table S4.2 Performance parameters**

| Parameter | Frequency of assessment | Units |
|---|---|---|
| Diesel usage | Annually | tonnes |
| HVO usage | Annually | tonnes |
| Generator operation for maintenance/testing | Annually | Total hours for the site (hours), total hours per generator (hours), total number of runs per generator (quantity) and number of minutes per run (minutes) |
| Generator operation during emergency scenario | Immediately, and certainly within 24 hours if emergency operation commences | Date and time of emergency operation, number of generators operating immediately after failure, number of generators operating two hours after failure, anticipated duration of the mains supply failure and of emergency operation of engines if different (hours) |
| Generator operation during emergency scenario | Annually | Total number of runs (quantity), duration of runs (hours) and for each run maximum number of engines and thermal capacity deployed |

**Table S4.3 Reporting forms**

| Media/ parameter | Reporting format | Date of form |
|---|---|---|
| Air | Form air 1 or other form as agreed in writing by Natural Resources Wales | 29/01/2026 |
| Other performance indicators | Form Performance 1 or other form as agreed in writing by Natural Resources Wales | 29/01/2026 |
| Generator operating during emergency scenario | Form Emergency Scenario or other form as agreed in writing by Natural Resources Wales | 29/01/2026 |
| Generator operating during maintenance/testing scenario | Form Testing and Maintenance Scenario or other form as agreed in writing by Natural Resources Wales | 29/01/2026 |

# 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 | **EPR/DB3639FK** |
| Name of operator | **MSFT MCIO Limited** |
| Location of Facility | **Newport Campus, Former Quinn Radiator Manufacturing Site, Imperial Business Park, Celtic Way, Dyffryn, Newport, NP10 8BE** |
| Time and date of the detection | |

| **(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment** | |
|---|---|
| **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 permit condition** | |
|---|---|
| **To be notified within 24 hours of detection unless otherwise specified below** | |
| Emission point reference/ source | |
| Parameter(s) | |
| Limit | |
| Measured value and uncertainty | |
| Date and time of monitoring | |
| Measures taken, or intended to be taken, to stop the emission | |

.

| **Time periods for notification following detection of a breach of a limit** | |
|---|---|
| **Parameter** | **Notification period** |
| | |

| | |
|---|---|
| | |
| | |

| **(c ) In the event 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:** | |
|---|---|
| **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.

"*AEGL*" is the "acute exposure guideline level" for NO2 as defined by the United States Environmental Protection Agency. $NO_2$ AEGL-1 is 940 µg/$m^3$ for an exposure duration from 10 minutes to 8 hours, and the most protective AEGL-2 is 12,600 µg/$m^3$ for an exposure duration of up to 8 hours

*"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.

*"AQMP"* Means the current site Air Quality Management Plan, as approved by Natural Resources Wales

*"authorised officer"* means any person authorised by Natural Resources Wales 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.

*"emergency use"* means maximum 500 hours emergency mode of operation in the event of offsite or onsite failure of power supply to the data halls. The whole or part of site plant can only operate as emergency plant up to 500 hours in total per year as an absolute limit for grid outages.

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

"*first put into operation*" means that the plant must have been fired with its design fuel up to its full load. This can be, but does not have to be, during commissioning.

*"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.

"*Limited Operating Hours MCP*" means an MCP that meets the requirements of paragraph 7 (existing MCP) or 8 (new MCP) of Part 2 of Schedule 25A of the EP Regulations.

*"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.

"*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.

"*Sensitive receptors*" means receptors, either human or ecological that are located within distance from the installation whereby they could be adversely affected by air emissions from the engines.

"*year*" means calendar year ending 31 December.

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

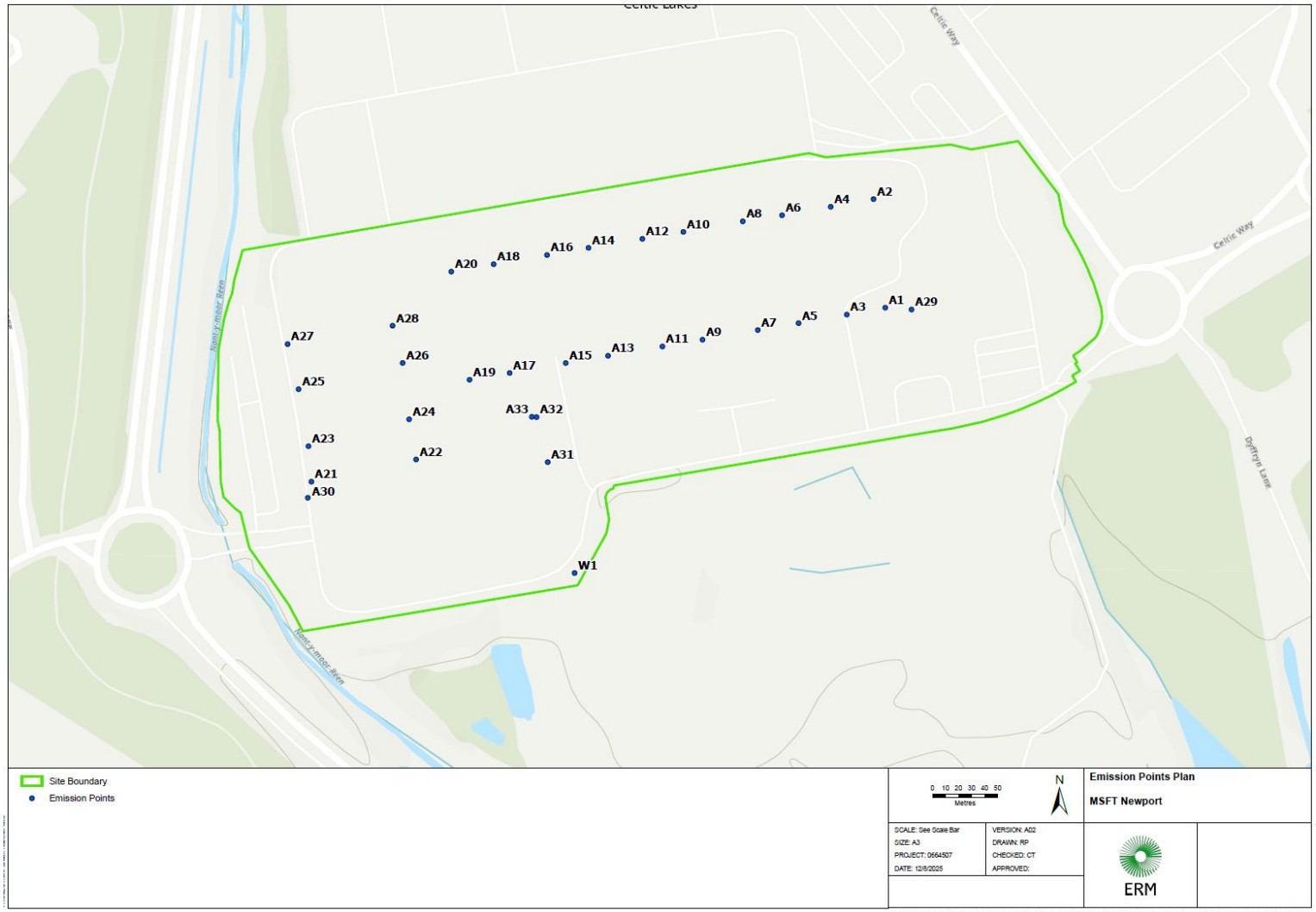
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

(a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels other than compression ignition engines, 6% dry for solid fuels; and/or

(b) in relation to emissions from compression ignition engine 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 15% dry for liquid and gaseous fuels; and/or

(c) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

# Schedule 7 - Site plan



# Schedule (8) – Annex I of MCPD

| | |
|---|---|
| **1. Rated thermal input (MW) of the medium combustion plant.** | 28 x 8.8 $MW_{th}$ CAT C175-20 (EM13161_07) (A1-A28)<br>2 x 2.7 $MW_{th}$ CAT C32 (A29-A30)<br>1 x 1.1 $MW_{th}$ CAT C15 (A31)<br><br>Total MCP capacity on installation 252.9 $MW_{th}$ |
| **2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).** | Diesel Engine |
| **3. Type and share of fuels used according to the fuel categories laid down in Annex II.** | 100% Gas Oil or HVO |
| **4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.** | XX/XX/2026 |
| **5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code.** | J63.1.1 - Data processing, hosting and related activities |
| **6. Expected number of annual operating hours of the medium combustion plant and average load in use.** | 100% load in use, <50h per engine per year (typically approximately 5 hours per engine per year) |
| **7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.** | Provided with application and saved to Natural Resources Wales Document Management System |
| **8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.** | MSFT MCIO Limited<br>1 Blossom Yard<br>Fourth Floor<br>London<br>United Kingdom<br>E1 6RS<br><br>Plant located at:<br>Newport Campus<br>Celtic Lakes<br>Celtic Way<br>Duffryn<br>Newport<br>NP10 8BE |

**END OF PERMIT.**