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Ireland

INDUSTRIAL EMISSIONS LICENCE

Recommended Determination

Licence Register Number:	**P1181-01**
Company Register Number:	**390566**
Applicant:	**Amazon Data Services Ireland Limited**
Location of Installation:	**Drogheda IDA Business and Technology Park** **Donore Road** **Drogheda** **County Meath**

INTRODUCTION

This introduction is not part of this licence and does not purport to be a legal interpretation of this licence.

This licence is for the operation of generators as part of a data storage campus located at Drogheda IDA Business And Technology Park, Donore Road, Drogheda, Co. Meath. The campus consists of a data storage building (Building A). The data halls house IT hardware which host, manage and distribute electronic data.

The main emissions to air are from the combustion of fuels from the operation of 27 no. generators at the installation

These generators are operated for routine maintenance and testing and in the following scenarios:

- Loss, reduction or instability in power supply from the National Grid;
- Maintenance of power systems supplying the installation;
- A request from the transmission system operator (TSO) to reduce load on the electricity grid.

The generators will be used solely for the purpose of generating power for the data storage facility. No electricity will be exported from the installation to the national grid.

Evaporative cooling water is discharged to the onsite storm water drainage network. Storm water run-off from the installation is discharged to a public storm water drain, which discharges to the Boyne River.

The licensed activity falls under the following category of Annex I of the Industrial Emissions Directive (2010/75/EU):

1.1 Combustion of fuels in installations with a total rated thermal input of 50MW or more.

This licence sets out in detail the conditions under which Amazon Data Services Ireland Limited will operate and manage this installation.

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Glossary of Terms

All terms in this licence should be interpreted in accordance with the definitions in the Environmental Protection Agency Act 1992 as amended, unless otherwise defined in the glossary.

Accident	For the purpose of this licence an accident means an unplanned event that may result in pollution.
AER	Annual Environmental Report.
Approval	Approval in writing/electronically.
Annually	All or part of a period of twelve consecutive months.
Application	The application by the licensee for this licence.
Appropriate Facility	A waste management facility or installation, duly authorised under relevant law and technically suitable.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
BAT	Best Available Techniques (BAT).
BAT conclusions	A document containing the parts of a BAT reference document laying down the conclusions on best available techniques, their description, information to assess their applicability, the emission levels associated with the best available techniques, associated monitoring, associated consumption levels and, where appropriate, relevant site remediation measures.
BAT reference document	A document drawn up by the Commission of the European Union in accordance with Article 13 of the Industrial Emissions Directive, resulting from the exchange of information in accordance with that Article of that Directive and describing, in particular, applied techniques, present emissions and consumption levels, techniques considered for the determination of best available techniques as well as BAT conclusions and any emerging techniques.
Biannually	At approximately six – monthly intervals.
Biennially	Once every two years.
CEN	Comité Européen De Normalisation – European Committee for Standardisation.

Combustion Plant	Any technical apparatus in which fuels are oxidised in order to use the heat thus generated.
Containment boom	A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
CRO Number	Company Register Number.
Daily	During all days of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement on any one day.
Day	Any 24-hour period.
Daytime	0700hrs to 1900hrs.
dB(A)	Decibels (A weighted).
Diffuse Emissions	Non-channelled emissions which can result from 'area' sources (e.g. tanks) or 'point' sources (e.g. pipe flanges).
Documentation	Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
Drawing	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
Emission limits	Those limits, including concentration limits and deposition rates, established in *Schedule B: Emission Limits,* of this licence.
EMP	Environmental Management Programme.
EMS	Environment Management System. The aspect of the organisation's overall management structure that addresses immediate and long-term impacts of its products, services and processes on the environment.
EPA	Environmental Protection Agency.
Evening Time	1900hrs to 2300hrs
Facility	Any site or premises used for the purpose of the recovery or disposal of waste.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.
Gas Oil	Any petroleum-derived liquid fuel falling within CN code 2710 19 25, 2710 19 29, 2710 19 47, 2710 19 48, 2710 20 17 or 2710 20 19. Or any petroleum-derived liquid fuel of which less than 65 vol-% (including losses) distils at

	250 °C and of which at least 85 vol-% (including losses) distils at 350 °C by the ASTM D86 method.
Groundwater	Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010), as amended.
Hazardous Substances	Substances or mixtures as defined in Article 3 of Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.
Hours of operation	The hours during which the installation is authorised to be operational.
IE	Industrial Emissions.
Incident	The following shall constitute an incident for the purposes of this licence: (i) an emergency; (ii) any emission which does not comply with the requirements of this licence; (iii) any malfunction or breakdown of key environmental abatement, control or monitoring equipment; (iv) any trigger level specified in this licence which is attained or exceeded; (v) any compliance value specified in this licence which is attained or exceeded; (vi) any indication that environmental pollution has, or may have, taken place.
Industrial Emissions Directive	Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast).
Installation	A stationary technical unit or plant where the activity concerned referred to in the First Schedule of EPA Act 1992 as amended is or will be carried on, and shall be deemed to include any directly associated activity, which has a technical connection with the activity and is carried out on the site of the activity.
Installation Manager	The licensee or an authorised representative of the licensee with the appropriate seniority and authority to ensure compliance with the licence.
K	Kelvin.
kPa	Kilopascals.
$L_{Aeq,T}$	This is the equivalent continuous sound level. It is a type of average and is used to describe a fluctuating noise in terms of a single noise level over the sample period (T).

$L_{Ar,T}$	The Rated Noise Level, equal to the L_{Aeq} during a specified time interval (T), plus specified adjustments for tonal character and/or impulsiveness of the sound.
Licensee	**Amazon Data Services Ireland Limited, One Burlington Plaza, Burlington Road, Dublin 4, CRO Number: 390566.**
List of Wastes (LoW)	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2014/955/EU, as amended by any subsequent amendment published in the Official Journal of the European Community.
Local Authority	Meath County Council.
Monthly	A minimum of 12 times per year, at intervals of approximately one month.
Night-time	2300hrs to 0700hrs.
Noise-sensitive location (NSL)	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other installation or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
Odour-sensitive location	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other premises or area of high amenity which for its proper enjoyment requires the absence of odour at nuisance levels.
Oil separator	Device installed according to the International Standard I.S. EN 858-2:2003 (Separator system for light liquids, (e.g. oil and petrol) – Part 2: Selection of normal size, installation, operation and maintenance).
Potential emissions	Emissions which take place only under abnormal operating conditions. Examples include emissions from overpressure valves, bursting discs, and generators.
PRTR	Pollutant Release and Transfer Register.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Relevant Hazardous Substances	Those substances or mixtures defined within Article 3 of Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater and are used, produced and/or released by the installation.

SAC	Special Area of Conservation designated under the Habitats Directive, Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.
Sample(s)	Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments.
Sanitary effluent	Wastewater from installation toilet, washroom and canteen facilities.
Soil	The top layer of the Earth's crust situated between the bedrock and the surface. The soil is composed of mineral particles, organic matter, water, air and living organisms.
SOP	Standard operating procedure.
SPA	Special Protection Area designated under the Birds Directive, Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds.
Specified emissions	Those emissions listed in *Schedule B: Emission Limits,* of this licence.
Standard method	A National, European or internationally recognised procedure (e.g. I.S. EN, ISO, CEN, BS or equivalent); or an in-house documented procedure based on the above references; a procedure as detailed in the current edition of "Standard Methods for the Examination of Water and Wastewater" (prepared and published jointly by A.P.H.A., A.W.W.A. & W.E.F.), American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA; or an alternative method as may be agreed by the Agency.
Storage	Includes holding of waste.
Storm water	Rain water run-off from roof and non-process areas.
The Agency	Environmental Protection Agency.
TOC	Total organic carbon.
Trade effluent	Trade effluent has the meaning given in the Water Services Act, 2007.
Trigger level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
Uisce Éireann	Uisce Éireann, Colvill House, 24/26 Talbot Street, Dublin 1.
Waste	Any substance or object which the holder discards or intends or is required to discard.

Water Services Authority	Meath County Council.
Weekly	During all weeks of plant operation and, in the case of emissions, when emissions are taking place; with at least one measurement in any one week.
WWTP	Waste water treatment plant.

Decision and Reasons for the Decision

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any emissions from the activity will comply with and will not contravene any of the requirements of Section 83(5) of the Environmental Protection Agency Act 1992 as amended.

The Agency also considers that the activity will not adversely affect the integrity of any European Site, and has decided to impose conditions for the purposes of ensuring it does not do so. It has determined that the activity, if managed, operated and controlled in accordance with this licence, will not have any adverse effect on the integrity of any of those sites.

The Agency accordingly proposes to grant a licence to Amazon Data Services Ireland Limited to carry on the activity listed in *Part I, Schedule of Activities Licensed*, subject to the conditions set out in *Part III, Conditions.*

In reaching this decision the Agency has considered the documentation relating to: the application, Register Number: P1181-01 and the supporting documentation received from the applicant; the submissions received; the Inspector's Report dated **15 March 2024**; and has carried out an Environmental Impact Assessment (EIA) and an Appropriate Assessment of the likely significant effects of the activity on European Sites. The Agency has performed its functions in a manner consistent with Section 15 of the Climate Action and Low Carbon Development Act 2015 as amended.

It is considered that the Inspector's Report contains a fair and reasonable examination, evaluation and analysis of the likely significant effects of the activity on the environment, and adequately and accurately identifies, describes and assesses those effects. The assessment as reported in this documents is adopted as the assessment of the Agency. Having regard to this assessment, it is considered that the activity, if managed, operated and controlled in accordance with this licence will not result in the contravention of any relevant environmental quality standards or cause environmental pollution.

Having regard to the examination of environmental information in the Inspector's Report, and in particular to the content of the Environmental Impact Assessment Report (EIAR) and supplementary information provided by the applicant, and any other third parties in the course of the application, it is considered that the potential significant direct and indirect effects of the activity on the environment are as follows:

- effects on air quality due to emissions to air from the generators through combustion of diesel;
- noise emissions associated with the operation of the installation;
- accidental emissions to air, surface water, ground or groundwater from fire, explosion, leaks or spillages;
- storm water discharges (including evaporative cooling water) to the Boyne River; and
- effects on climate due to the release of CO_2 emissions to air.

Having assessed those potential effects, the Agency has concluded as follows:

- emissions to air will be mitigated by imposing operating restrictions on the generators; and implementing other monitoring, maintenance and control measures;
- noise emissions will be mitigated by imposing daytime, evening-time and night-time noise limits at noise-sensitive locations, the requirement to prepare and implement a Noise Management Plan, and monitoring, maintenance and control measures;
- accidental emissions to air, surface water, ground or groundwater from fire, explosion, leaks or spillages will be prevented and mitigated through accident and emergency requirements, tank, container and drum storage requirements and inspection and integrity testing of pipes, tanks and bunds;
- storm water discharges (including evaporative cooling water) to the Boyne River will be mitigated through the requirement for oil separators and silt traps, establishment and

maintenance of trigger levels and a response programme to address exceedances and visual inspection of storm water drains; and
- effects on climate due to release of CO_2 emissions will be mitigated through the limitations on the generators, which includes an operating hour restriction, conditions relating to energy efficiency and alternative energy sources, and through the requirement to participate in the EU Emissions Trading System (ETS).

Having regard to the effects (and interactions) identified, described and assessed throughout the Inspector's Report, it is considered that the monitoring, mitigation and preventative measures proposed will enable the activity to operate without causing environmental pollution, subject to compliance with this licence. The conditions of this licence and the mitigation measures will significantly reduce the likelihood of accidental emissions occurring and limit the environmental consequences of an accidental emission should one occur.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activity, individually or in combination with other plans or projects is likely to have a significant effect on any European Site. In this context, particular attention was paid to the European Sites at River Boyne and River Blackwater SAC (Site Code: 002299), Boyne Coast and Estuary SAC (Site Code: 001957), Clogher Head SAC (Site Code: 001459), River Boyne and River Blackwater SPA (Site Code: 004232), Boyne Estuary SPA (Site Code: 004080) and River Nanny Estuary and Shore SPA (Site Code: 004158).

The activity is not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it cannot be excluded, on the basis of objective information, that the activity, individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the activity was required, and for this reason determined to require the applicant to submit a Natura Impact Statement.

This determination has been made in light of the following reasons:

- Due to the nature and scale of the activity (operation of 27 diesel powered generators and 2 diesel powered fire sprinkler pumps) and the proximity to European Sites. The closest European Site is the River Boyne and River Blackwater SAC approximately 1km to the north. Air emissions of NO_X from the diesel-powered equipment has the potential to impact on qualifying interests within this European site.
- There is a hydrological connection between the installation and the River Boyne and River Blackwater SAC via the surface water drainage system. There are proposed emissions to surface water of residual cooling water associated with the evaporative cooling process in the Air Handling Units. Potential effects of these proposed emissions on the receiving European site and its qualifying interests cannot be ruled out.

A Natura Impact Statement was received by the Agency as part of the licence application on 07 March 2023.

The Agency was notified on 12 July 2023 by the Department of Housing, Local Government of the Minister's intention to designate a new European site, namely the North-west Irish Sea candidate Special Protection Area (cSPA).

The Agency has completed the Appropriate Assessment of potential impacts on these sites and has made certain, based on best scientific knowledge in the field and in accordance with the European Communities (Birds and Natural Habitats) Regulations 2011 as amended, pursuant to Article 6(3) of the Habitats Directive, that the activity, individually or in combination with other plans or projects, will not adversely affect the integrity of any European Site, in particular River Boyne and River Blackwater SAC (Site Code: 002299), Boyne Coast and Estuary SAC (Site Code: 001957), Clogher Head SAC (Site Code: 001459), River Boyne and River Blackwater SPA (Site Code: 004232), Boyne Estuary SPA (Site Code: 004080), River Nanny Estuary and Shore SPA (Site Code: 004158) and North-west Irish Sea cSPA (004236), having regard to their conservation objectives and will not affect the preservation of these sites at favourable conservation status if carried out in accordance

with this licence and the conditions attached hereto for the following reasons:

- The installation is not located within a European site.
- The RD specifies operating restrictions and controls for emissions to air from the generators. These operating restrictions, which include limiting the hours of operation, are supported by air dispersion modelling for NO_2, which has demonstrated compliance, either alone or in combination with other plans or projects, with the air quality standards for human beings or vegetation at or in the vicinity of the installation. The nearest European site (River Boyne and River Blackwater SAC) is approximately 1 km from the installation boundary. It is considered that there will be no significant adverse effects on European sites due to emissions to air from the installation.
- The RD specifies daytime, evening and night-time noise emission limit values to be met at noise sensitive locations. European Sites and their qualifying interests are considered to be outside of the zone of influence of noise emissions arising at the installation, given that the closest European Site is approximately 1 km away (River Boyne and River Blackwater SAC). There will be no potential for disturbance to qualifying interest species due to the noise limits specified and the distance to European Sites. Also, there is no potential for significant adverse effects on qualifying interest species due to vibration.
- There will be no process emissions to sewer from the installation.
- Discharges to water consists of storm water runoff (including small amounts of evaporative cooling water) from buildings and hardstanding areas. The RD requires that storm water discharge passes through a silt trap and oil separator before discharge to the surface water network prior to joining with the River Boyne. The RD also requires the applicant to maintain trigger levels for the storm water discharge and to implement a response programme to address exceedances.
- The RD contains conditions in relation to the storage and management of materials and wastes. Also, the RD requires a documented Accident Prevention Procedure to be maintained that addresses hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment.
- There are no direct process emissions to ground or groundwater from the installation and there is no existing soil/groundwater contamination beneath the installation. Nonetheless, due to the volume of diesel to be used or stored on-site, Condition 6 of the RD requires the applicant to undertake periodic groundwater and soil monitoring for relevant hazardous substances. No adverse effects on European sites or their water dependant habitats or species are predicted.
- No significant in-combination effects are predicted; therefore, no additional mitigation measures are required.

There were no submissions on this application concerning Appropriate Assessment.

The Agency is satisfied that no reasonable scientific doubt remains as to the absence of adverse effects on the integrity of those European Sites River Boyne and River Blackwater SAC (Site Code: 002299), Boyne Coast and Estuary SAC (Site Code: 001957), Clogher Head SAC (Site Code: 001459), River Boyne and River Blackwater SPA (Site Code: 004232), Boyne Estuary SPA (Site Code: 004080), River Nanny Estuary and Shore SPA (Site Code: 004158) and North-west Irish Sea cSPA (004236).

Part I Schedule of Activities Licensed

In pursuance of the powers conferred on it by the Environmental Protection Agency Act 1992 as amended, the Agency proposes to grant this Industrial Emissions licence to:

Amazon Data Services Ireland Limited, One Burlington Plaza, Burlington Road, Dublin 4, CRO Number: 390566,

under Section 83(1) of the said Act to carry on the following activity:

- Combustion of fuels in installations with a total rated thermal input of 50MW or more,

at **Drogheda IDA Business and Technology Park, Donore Road, Drogheda, County Meath,** subject to the following 12 Conditions, with the reasons therefor and associated schedules attached thereto.

Part II Schedule of Activities Refused

None of the proposed activities as set out in this licence application have been refused.

Part III Conditions

Condition 1. Scope

1.1 Industrial Emissions Directive activities at this installation shall be restricted to those listed and described in *Part I Schedule of Activities Licensed* and shall be as set out in the licence application or as modified under Condition 1.5 of this licence and subject to the conditions of this licence.

1.2 The licensee shall carry on the licensed activity in accordance with the limitations set out in *Schedule A: Limitations* of this licence.

1.3 For the purposes of this licence, the installation authorised by this licence is the area of land outlined in red on Drawing No. **21_123G – CSE – 00 – XX – DR – C – 0002** of the application. Any reference in this licence to "installation" shall mean the area thus outlined in red. The licensed activity shall be carried on only within the area outlined.

1.4 All activities which are directly associated with, and technically connected to the licensed activity, whether operated by the licensee or by another party, shall be subject to the conditions of this licence, and the licensee shall bear full responsibility for any breach of these conditions.

1.5 No alteration to, or reconstruction in respect of, the activity, or any part thereof, that would, or is likely to, result in

(i) a material change or increase in:

- the nature or quantity of any emission;
- the abatement/treatment or recovery systems;
- the range of processes to be carried out;
- the fuels, raw materials, intermediates, products or wastes generated, or

(ii) any changes in:

- site management, infrastructure or control with adverse environmental significance,

shall be carried out or commenced without prior notice to, and without the approval of, the Agency.

1.6 The installation shall be controlled, operated and maintained, and emissions shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence become part of this licence.

1.7 This licence is for the purpose of licensing under the EPA Act 1992 as amended only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.

Reason: To clarify the scope of this licence.

Condition 2. Management of the Installation

2.1 Installation Management

2.1.1 The licensee shall employ a suitably qualified and experienced installation manager who shall be designated as the person in charge. The installation manager or a nominated, suitably qualified and experienced deputy shall be present on the installation at all times during its operation or as otherwise required by the Agency.

2.1.2 The licensee shall ensure that personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and experience as required and shall be aware of the requirements of this licence.

2.2 Environmental Management System (EMS)

2.2.1 The licensee shall **establish, maintain and implement** an Environmental Management System (EMS), within six months of the date of grant of this licence. The EMS shall be reviewed by senior management for suitability, adequacy and effectiveness and updated on an annual basis.

2.2.2 The EMS shall include, as a minimum, the following elements:

2.2.2.1 A statement of the ccommitment, leadership and accountability of management, including senior management for the implementation of an effective EMS.

2.2.2.2 An environmental policy, defined by Management, that includes a commitment to continuous improvement of the environmental performance of the installation.

2.2.2.3 Management and Reporting Structure and responsibility for environmental aspects, including for the planning and provision of financial and human resources to manage and implement the EMS.

2.2.2.4 An analysis of the organisation's regulatory and environmental obligations, including the potential risks to the environment from the activity.

2.2.2.5 The procedures required by this licence, including procedures for;

2.2.2.5.1 ensuring compliance with environmental legislation;

2.2.2.5.2 ensuring employee awareness of and involvement in complying with environmental legislation; and

2.2.2.5.3 checking performance and developing performance indicators by sectoral benchmarking on a regular basis, including for energy efficiency.

2.2.2.6 Schedule of Environmental Objectives and Targets

The licensee shall **prepare, maintain and implement** a Schedule of Environmental Objectives and Targets. The schedule shall, as a minimum, provide for a review of all operations and processes, as referred to in the conditions of this licence, including an evaluation of practicable options for:

(i) energy and resource efficiency;

(ii) use of alternative techniques for the management of any risks associated with the operation of the evaporative cooling system (e.g. Legionella);

(iii) increasing the use of solar power, sustainable biofuels and other renewable energy options on site;

(iv) the reduction in emissions and improvement in dispersion of emissions from the generators during maintenance, testing and operation;

(v) the reduction in water consumption;

(vi) the use of cleaner technology, cleaner production;

(vii) noise management;

(viii) the prevention, reduction and minimisation of waste including waste reduction targets;

(ix) the impacts from eventual decommissioning of the installation;

(x) a monitoring and measurement programme.

The Schedule shall include time frames for the achievement of set targets and shall address a five-year period as a minimum. The Schedule shall be reviewed annually. **When including time frames, the licensee must have regard to the most recent national climate action plan**.

2.2.2.7 Environmental Management Programme (EMP)

The licensee shall prepare, maintain and implement an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2.2.6 above. The EMP shall include:

- designation of responsibility for targets;
- the means by which they may be achieved; and
- the time within which they may be achieved.

The EMP shall be reviewed annually.

A report on the programme, including the success in meeting agreed targets and an evaluation of non-conformities and associated corrective actions and the potential for further non-conformities to occur shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

2.2.2.8 The licensee shall establish, maintain and implement the following to the satisfaction of the Agency:

(i) An environmental management documentation system;
(ii) Corrective and Preventative Action procedures;
(iii) A programme for independent internal audits of the EMS;
(iv) Procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment to ensure awareness and competence in their work area;
(v) A Public Awareness and Communications Programme;
(vi) A programme for maintenance of all plant and equipment;
(vii) A programme to ensure there is adequate control of processes under all modes of operation.

2.3 Evaporative Cooling System

Only hydrogen peroxide shall be added to the Evaporative Cooling Water system, as part of a Legionella management programme. No other chemicals shall be added to the Evaporative Cooling Water System unless written approval is given by the Agency.

Reason: ***To make provision for management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.***

Condition 3. Infrastructure and Operation

3.1 The licensee shall ensure, at all times after the grant of this licence, that all infrastructure and all equipment required under this licence has been and is:

(i) installed;
(ii) commissioned;
(iii) present on site; and
(iv) maintained in full working order.

3.2 Where any Condition or Schedule of this licence specifies any later deadline for installation of any piece of infrastructure or equipment, Condition 3.1 of this licence shall apply as and from the deadline specified.

3.3 The licensee shall establish and maintain, for each component of the installation, all infrastructure referred to in this licence in advance of the commencement of the licensed activities in that component, or as required by the conditions of this licence. Infrastructure specified in the application that relates to the environmental performance of the installation and is not specified in this licence, shall be installed in accordance with the schedule submitted in the application.

3.4 The licensee shall have regard to the following when choosing and/or designing any new plant/infrastructure:

(i) energy efficiency; and

(ii) the environmental impact of its construction/installation, maintenance, operation and eventual decommissioning.

3.5 Installation Notice Board

(i) The licensee shall within one month of the date of grant of this licence, provide an Installation Notice Board on the installation so that it is legible to persons outside the main entrance to the installation. The minimum dimensions of the board shall be 1200mm by 750mm. The notice board shall be maintained thereafter.

(ii) The board shall clearly show:

(i) the name and telephone number of the installation;

(ii) the normal hours of operation;

(iii) the name of the licence holder;

(iv) an emergency out of hours contact telephone number;

(v) this licence reference number; and

(vi) where environmental information relating to the installation can be obtained.

3.6 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.

3.7 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency. The requirement with regard to off-site points is subject to the prior agreement of the landowner(s) concerned.

3.8 Tank, Container and Drum Storage Areas

3.8.1 All tank, container and drum storage areas shall be rendered impervious to the materials stored therein. Bunds shall be designed having regard to Agency guidelines 'Storage and Transfer of Materials for Scheduled Activities' (2004).

3.8.2 All tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:

(i) 110% of the capacity of the largest tank or drum within the bunded area; or
(ii) 25% of the total volume of substance that could be stored within the bunded area.

3.8.3 All drainage from bunded areas shall be treated as contaminated unless it can be demonstrated to be otherwise.

3.8.4 All drainage from bunded areas, **including transformer compounds where present**, shall be diverted for collection and safe disposal, unless it can be deemed uncontaminated and does not exceed the trigger levels set for storm water emissions under Condition 6.10.

3.8.5 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.

3.8.6 All tanks, containers and drums shall be labelled to clearly indicate their contents.

3.8.7 All bunds shall be uniquely identified and labelled at the bund.

3.8.8 The licensee shall apply a leak detection system to all storage tanks, container and drum storage areas that contain liquid material other than water.

3.9 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage at the installation. Once used, the absorbent material shall be disposed of at an appropriate facility.

3.10 Water metering and records

3.10.1 The licensee shall install a water meter on all water supplies serving the installation, within six months of the date of grant of this licence. In the case of new water supplies installed on site, the meters shall be fitted in advance of utilisation.

3.10.2 Records of water usage shall be maintained on site and a summary records report shall be submitted annually as part of the AER.

3.11 Silt Traps and Oil Separators

The licensee shall maintain silt traps and oil separators at the installation, as follows:

(i) Silt traps to ensure that all storm water discharges, other than from roofs, from the installation pass through a silt trap in advance of discharge;

(ii) Class I by-pass separators on the storm water inlets to the retention basin. Class I full retention separators on the discharges from the substation area and bulk diesel storage area.

The separators shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids).

3.12 Fire-water Retention

3.12.1 The licensee shall carry out a risk assessment to determine the retention requirements for fire water run-off from the installation. The risk assessment, and any subsequent reports or programmes, shall be completed in accordance with any guidelines issued by the Agency with regard to firewater retention.

3.12.2 The licensee shall submit the Firewater Risk Assessment Report based on the assessment in Condition 3.12.1 to the Agency for approval within nine months of the date of grant of this licence.

3.12.3 The licensee shall implement the Firewater Risk Assessment Report as approved by the Agency under Condition 3.12.2, within the timeframes specified by the Agency.

3.13 All pump sumps, storage tanks, lagoons or other treatment plant chambers from which spillage of environmentally significant materials might occur in such quantities as are likely to breach local or remote containment or separators, shall be fitted with high liquid level alarms (or oil detectors as appropriate) within six months of the date of grant of this licence.

3.14 Any wellheads at the installation shall be adequately protected to prevent contamination or physical damage.

3.15 The licensee shall, within three months of the date of grant of this licence, install in a prominent location on the site a wind sock, or other wind direction indicator, which shall be visible from the public roadway outside the site.

3.16 Fuel Usage

3.16.1 Diesel, or biodiesel (meeting CEN standard EN14214) shall be used in the generators on site. In the event of an interruption to the supply of diesel or biodiesel, an alternative fuel may be used with the prior approval of the Agency.

3.16.2 The Agency may approve the use of a biofuel, other than biodiesel, as an alternative primary fuel, subject to the licensee demonstrating that the biofuel will not cause an increase in emissions from the installation and will not give rise to any breach of Air Quality Standards.

3.17 **Evaporative Cooling Water**

The licensee shall carry out a feasibility study to divert the evaporative cooling water to sewer. The report shall be submitted to the Agency for approval within twelve months of the date of grant of the licence.

3.18 Generator operation

An alternative plant loading and operating hour restriction to that specified in *Schedule A.1: Generator operation, other than testing/maintenance*, may be approved by the Agency subject to the licensee demonstrating that the alternatives will not cause any increase in the mass emissions above those allowed under *Schedule A.1: Generator operation, other than testing/maintenance*, and will not give rise to any breach of Air Quality Standards.

Reason: ***To provide for appropriate operation of the installation to ensure protection of the environment.***

Condition 4. Interpretation

4.1 Emission limit values for emissions to atmosphere in this licence shall be interpreted in the following way:

4.1.1 Continuous Monitoring

(i) No 24-hour mean value shall exceed the emission limit value.

(ii) 97% of all 30-minute mean values taken continuously over an annual period shall not exceed 1.2 times the emission limit value.

(iii) No 30-minute mean value shall exceed twice the emission limit value.

4.1.2 Non-Continuous Monitoring

(i) For any parameter where, due to sampling/analytical limitations, a 30-minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.

(ii) For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.

(iii) For all other parameters, no 30-minute mean value shall exceed the emission limit value.

4.2 The concentration and volume flow limits for emissions to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of:

4.2.1 From non-combustion sources:

Temperature 273 K, Pressure 101.3 kPa (no correction for oxygen or water content).

4.2.2 From combustion sources:

Temperature 273 K, Pressure 101.3 kPa, dry gas; 15% oxygen for liquid and gas fuels.

4.3 Emission limit values for emissions to sewer/waters in this licence shall be achieved without the introduction of aqueous dilution, and shall be interpreted in the following way:

4.3.1 Continuous Monitoring

(i) No flow value shall exceed the specific limit.

(ii) No pH value shall deviate from the specified range.

(iii) No temperature value shall exceed the limit value.

4.3.2 Composite Sampling

(i) No pH value shall deviate from the specified range.

(ii) For parameters other than pH and flow, eight out of ten consecutive composite results, based on flow proportional composite sampling, shall not exceed the emission limit value. No individual results similarly calculated shall exceed 1.2 times the emission limit value.

4.3.3 Discrete Sampling

For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.

4.4 Where the ability to measure a parameter is affected by mixing before emission, then, with agreement from the Agency, the parameter may be assessed before mixing takes place.

4.5 Noise

Noise from the installation shall not give rise to sound pressure levels measured at noise sensitive locations which exceed the limit value(s) in *Schedule B.4: Noise Emissions* of this licence.

Reason: To clarify the interpretation of limit values fixed under this licence.

Condition 5. Emissions

5.1 Emissions may be made from the specified emission points set out in *Schedule B: Emission Limits,* of this licence subject to compliance with the Emission Limit Values specified in that Schedule.

5.1.1 Uncontaminated storm water may be discharged to surface water.

5.1.2 Uncontaminated storm water may be emitted to groundwater or to soil.

5.1.3 Minor, diffuse and potential emissions may be emitted to air as specified in the application and in accordance with *Schedule A: Limitations*, of this licence, or as approved by the Agency under Condition 1 of this licence.

5.2 Notwithstanding the requirements of Condition 5.1 above, there shall be no other emissions from the installation.

5.3 Emissions, including emissions giving rise to odours, from the activities carried on at the site shall not result in an impairment of, or an interference with amenities or the environment beyond the installation boundary or any other legitimate uses of the environment beyond the installation boundary.

Reason: To provide for the protection of the environment by way of control and limitation of emissions.

Condition 6. Control and Monitoring

6.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance, calibrations and control techniques as set out below and as in accordance with *Schedule C: Control and Monitoring*, of this licence.

6.1.1 Sampling and analysis shall be undertaken by competent staff in accordance with documented operating procedures. Unless otherwise approved by the Agency, sampling and analysis of emissions to atmosphere shall be carried out by ISO 17025 accredited persons/organisations, with accreditation for the relevant scope of sampling and analysis, and in accordance with the Agency's air monitoring policy.

6.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.

6.1.3 Such procedures shall be subject to a programme of Analytical Quality Control using appropriate control standards with evaluation of test responses.

6.1.4 Where any analysis is sub-contracted it shall be outsourced to a competent laboratory.

6.2 The licensee shall ensure that:

(i) sampling and analysis for all parameters listed in the schedules to this licence; and

(ii) any reference measurements for the calibration of automated measurement systems

shall be carried out in accordance with CEN-standards. If CEN standards are not available, ISO, national or international standards, which will ensure the provision of data of an equivalent scientific quality, shall apply.

6.3 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been approved in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. The use of alternative equipment, other than in emergency situations, shall be as approved by the Agency.

6.4 Monitoring and analysis equipment shall be installed, operated and maintained as necessary so that all monitoring results accurately reflect any emission, discharge or parameter specified in this licence.

6.5 The licensee shall ensure that groundwater monitoring well sampling equipment is available or installed on-site at the installation and is fit for purpose at all times. The sampling equipment shall be to Agency specifications.

6.6 All treatment/abatement and emission control equipment shall be calibrated and maintained in accordance with the instructions issued by the manufacturer/supplier or installer.

6.7 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended as required or approved by the Agency following evaluation of test results.

6.8 The integrity and water tightness of all tanks, bunding structures, containers and underground pipes and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee within three months of the date of grant of this licence.

6.8.1 In the case of new bunding structures, tanks, underground pipelines and containers installed on site, the testing for integrity and water tightness shall be undertaken in advance of utilisation;

6.8.2 testing shall be carried out by a suitably qualified and experienced person;

6.8.3 testing shall be carried out in accordance with any guidance published by the Agency;

6.8.4 testing shall be carried out at least once every three years thereafter and reported to the Agency on each occasion;

6.8.5 any repairs required to ensure the integrity and water tightness of tanks, bunding structures, containers and underground pipes shall be carried out as soon as practicable; and

6.8.6 a written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

6.9 The storm water drainage system (i.e., gullies, manholes, any visible drainage conduits and such other aspects as may be required by the Agency), bunds, silt traps and oil separators shall be inspected weekly, desludged as necessary, and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal. The licensee shall maintain a drainage map on site. The drainage map shall be reviewed annually and updated as necessary.

6.10 Storm Water

6.10.1 A visual examination of the storm water discharges shall be carried out daily. A log of such inspections shall be maintained.

6.10.2 Trigger Values

6.10.2.1 The licensee shall, within six months of the date of grant of licence, establish suitable trigger levels for **temperature, conductivity, TOC and pH** in storm water discharges to the satisfaction of the Agency. The trigger values shall be established in accordance with the methods outlined in the Environmental Protection Agency's "*Guidance on the setting of trigger values for storm water discharges to off-site surface waters at EPA IPPC and Waste licensed facilities".*

6.10.2.2 The trigger values may be revised, to the satisfaction of the Agency, following evaluation of appropriate storm water monitoring data in accordance with the methods outlined in the Environmental Protection Agency's "*Guidance on the setting of trigger values for storm water discharges to off-site surface waters at EPA IPPC and Waste licensed facilities*".

6.10.2.3 The licensee shall establish, maintain and implement a response programme such that storm waters exceeding these levels will be diverted for retention and suitable disposal.

6.11 Noise

6.11.1 The licensee shall carry out a noise survey of the site operations annually. The survey programme shall be undertaken in accordance with the methodology specified in the '*Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)'* as published by the Agency.

6.11.2 Noise Management Plan

6.11.2.1 The licensee shall prepare, maintain and implement, to the satisfaction of the Agency, a Noise Management Plan.

6.11.2.2 The plan shall be submitted within two months of the date of grant of this licence.

6.11.2.3 The plan shall outline noise reduction and abatement measures.

6.11.2.4 The plan to reduce noise emissions should include the following mitigation measure(s): abatement and enclosure of operations, processes and equipment which might give rise to exceedances of noise limit values at the boundary.

6.11.2.5 The plan shall be prepared in accordance with the Agency's *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4).*

6.11.2.6 The plan shall be implemented within six months of the date of grant of this licence.

6.11.2.7 The plan shall be reviewed annually.

6.12 Pollutant Release and Transfer Register (PRTR)

The licensee shall submit a PRTR data report for the site. The pollutants and/or wastes to be included in the PRTR shall be determined by reference to EC Regulations No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register. The PRTR shall be prepared in accordance with any relevant Agency guidance and shall be submitted electronically in the format specified by the Agency.

6.13 The licensee shall, within six months of the date of grant of this licence, develop and establish a Data Management System for collation, archiving, assessing and graphically presenting the monitoring data generated as a result of this licence.

Reason: ***To provide for the protection of the environment by way of treatment and monitoring of emissions.***

Condition 7. Resource Use and Energy Efficiency

7.1 Energy Audit

7.1.1 The licensee shall carry out an audit of energy use and the energy efficiency of the site within one year of the date of grant of this licence.

7.1.2 The audit shall be carried out in accordance with the guidance published by the Agency, "*Guidance Note on Energy Efficiency Auditing*", and have regard to any other relevant published guidance.

7.1.3 The audit shall be repeated at intervals as required by the Agency.

7.1.4 The audit shall identify all practicable opportunities for:

7.1.4.1 Energy use reduction and efficiency;

7.1.4.2 The use of alternate energy sources as a means of decreasing or offsetting the use of fossil energy.

7.1.5 The recommendations of the audit shall be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.

7.2 Alternative Energy Sources

7.2.1 The licensee shall carry out a feasibility study of opportunities to increase the use of solar power, sustainable biofuels and other renewable energy options including energy storage.

7.2.2 The licensee shall submit a report within six months of the date of grant of the licence on the study under Condition 7.2.1 with recommendations for agreement with the Agency on the options to decrease or offset their use (both directly and indirectly) of fossil-fuelled energy.

7.2.3 The recommendations of the report, as agreed by the Agency, shall be incorporated into the Schedule of Environment Objectives and Targets under Condition 2 above.

7.3 The licensee must have regard to the targets of the most recent national climate action plan when identifying opportunities for energy use reduction.

Reason: ***To provide for the efficient use of resources and energy in all site operations.***

Condition 8. Materials Handling

8.1 The licensee shall ensure that waste generated in the carrying on of the activity shall be:

8.1.1 Prepared for re-use, recycling or recovery or, where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.

8.1.2 Stored in designated areas, protected as may be appropriate against spillage and leachate run-off.

8.1.3 Classified, packaged and labelled in accordance with National, European and any other labelling standard in force in advance of movement off-site.

8.1.4 Transported and recovered/disposed off-site in accordance with the appropriate National and European legislation and protocols.

8.1.5 In the case of any category of hazardous waste, unmixed with hazardous waste in another category or with any other non-hazardous waste.

8.2 The loading, unloading **and storage** of materials shall be carried out in designated areas protected against spillage and leachate run-off.

Reason: ***To provide for the appropriate handling of material and the protection of the environment.***

Condition 9. Accident Prevention and Emergency Response

9.1 The licensee shall, within six months of date of grant of this licence, ensure that a documented Accident Prevention Procedure is in place that addresses the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment. This procedure shall be reviewed annually and updated as necessary.

9.2 The licensee shall, within six months of date of grant of this licence, ensure that a documented Emergency Response Procedure is in place, that addresses any emergency situation which may originate on-site. This procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.

9.3 Incidents

9.3.1 In the event of an incident the licensee shall immediately:

(i) carry out an investigation to identify the nature, source and cause of the incident and any emission arising therefrom;

(ii) isolate the source of any such emission;

(iii) evaluate the environmental pollution, if any, caused by the incident;

(iv) identify and execute measures to minimise the emissions/malfunction and the effects thereof;

(v) identify the date, time and place of the incident; and

(vi) notify the Agency as required by Condition 11.3 of this licence.

9.3.2 Where an incident or accident that significantly affects the environment occurs, the licensee shall, without delay take measures to limit the environmental consequences of the incident or accident and to prevent further incident or accident.

Reason: ***To provide for the protection of the environment.***

Condition 10. Closure, Restoration and Aftercare Management

10.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall, to the satisfaction of the Agency, decommission, render safe or remove for disposal/recovery any soil, subsoil, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution. A final validation report to include a certificate of completion to demonstrate there is no continuing risk to the environment shall be submitted to the Agency within three months of termination or planned cessation of the activity.

Reason: ***To make provision for the proper closure of the activity ensuring protection of the environment.***

Condition 11. Notification, Records and Reports

11.1 The licensee shall submit the reports, proposals and submissions required by this licence by the deadlines specified. The licensee shall not be in compliance with the requirements of this condition unless and until it has submitted every report, proposal and submission, the deadline for which has passed.

11.2 The licensee shall carry out every action required by the Agency, and arising out of such reports, proposals or submissions, by such deadline as the Agency may specify. The licensee shall not be in compliance with the requirements of this condition unless and until it has carried out every such action.

11.3 The licensee shall notify the Agency, in a format as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:

(i) an incident or accident as defined by the glossary;

(ii) any breach of one or more of the conditions attached to this licence.

The licensee shall include as part of the notification, date and time of the incident, summary details of the occurrence, and where available, the steps taken to minimise any emissions and restore compliance. All details required to be communicated must be in accordance with any guidance provided by the Agency.

11.4 In the event of any incident which relates to discharges to sewer having taken place, the licensee shall notify Uisce Éireann and the Local Authority in a manner prescribed by Uisce Éireann, as soon as practicable after such an incident.

11.5 The following shall be notified, as soon as practicable after the occurrence of any incident which relates to a discharge to water:

(i) Inland Fisheries Ireland / Department of Agriculture, Food and the Marine in the case of discharges to receiving waters

(ii) Uisce Éireann and /or Water Services Authority**,** in the case of any incident where the discharge(s) have been identified as upstream of a drinking water abstraction point.

11.6 The licensee shall make a record of any notification made under Condition 11.3 above. This record shall include details of the nature, extent, and impact of, and circumstances giving rise to, the incident or accident. The record shall include all corrective actions taken to manage the incident or accident, minimise wastes generated and the effect on the environment, and avoid recurrence. In the case of a breach of a condition, the record shall include measures to restore compliance.

11.7 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant (if provided), and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.

11.8 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and all other such monitoring which relates to the environmental performance of the installation.

11.9 The licensee shall as a minimum ensure that **all documentation required by this licence or for the environmental management of the installation**, are:

(i) maintained to the satisfaction of the Agency;
(ii) accessible at the site;
(iii) available to the Agency for inspection at all reasonable times.

11.10 The licensee shall submit to the Agency annually, or as otherwise approved by the Agency,

11.10.1 An AER covering the previous calendar year, which shall be;

(i) prepared to the satisfaction of the Agency in accordance with any relevant guidelines issued by the Agency; and

(ii) submitted by the 31st March of each year,

11.10.2 The results of all emission monitoring carried out in accordance with the requirements of this licence; including an assessment and interpretation of the results.

11.11 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall be as a minimum contain details of the following:

(i) the tonnages and LoW Code for the waste materials sent off-site for disposal/recovery;

(ii) the names of the agent and carrier of the waste, and their waste collection permit details, if required (to include issuing authority and vehicle registration number);

(iii) details of the ultimate disposal/recovery destination facility for the waste and its appropriateness to accept the consigned waste stream, to include its permit/licence details and issuing authority, if required;

(iv) written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site;

(v) details of all waste consigned abroad for Recovery and classified as 'Green' in accordance with the EU Shipment of Waste Regulations (Council Regulation EEC No. 1013/2006, as may be amended). The rationale for the classification must form part of the record;

(vi) details of any rejected consignments;

(vii) details of any approved waste mixing;

(viii) the tonnage and LoW Code for the waste materials recovered/disposed on-site; and

(ix) any other records as may be specified by the Agency.

11.12 A full record shall be maintained by the licensee on matters relating to the back-up generators. This record shall as a minimum contain details of the following:

11.12.1 Back-up generator operation other than testing/maintenance:

(i) Date and time of generator run;
(ii) Run load per generator (percentage);
(iii) The type and quantities of fuels used in the plant; and
(iv) Duration of run (minutes);

11.12.2 Back-up generator operation for testing/maintenance:

(i) Date and time of the generator run;
(ii) Run load per generator (percentage); and

(iii) The type and quantities of fuels used in the plant; and
(iv) Duration of run (minutes).

11.13 The licensee shall submit report(s) electronically as required by the conditions of this licence to the Agency.

11.14 All reports shall be certified accurate and representative by the installation manager or a nominated, suitably qualified and experienced deputy.

Reason: To provide for the collection and reporting of adequate information on the activity.

Condition 12. Financial Charges and Provisions

12.1 Agency Charges

12.1.1 The licensee shall pay to the Agency an annual contribution of €5,446, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Environmental Protection Agency Act 1992 as amended. The first payment shall be a pro-rata amount for the period from the date of grant of this licence to the 31st day of December, and shall be paid to the Agency within one month from the date of grant of this licence. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Environmental Protection Agency Act 1992 as amended, and all such payments shall be made within one month of the date upon which demanded by the Agency.

12.1.2 In the event that the frequency or extent of monitoring or other functions carried out by the Agency needs to be increased, the licensee shall contribute such sums as determined by the Agency to defray its costs in regard to items not covered by the said annual contribution.

12.2 Environmental Liabilities

The Agency may amend this licence in accordance with Section 96 of the Environmental Protection Agency Act 1992 as amended to require, or not require as the case may be, the putting in place of a financial provision to address liabilities for CRAMP and/or Environmental Liabilities Risk Assessment.

Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.

SCHEDULE A: Limitations

A.1 Generator operation, other than testing/maintenance.

1. **None of the generators shall be operated for more than 100 hours annually. Generators shall not be operated at more than 90% load.**

2. **In the event that a generator is unavailable due to maintenance or otherwise, then a mobile generator may be used.**

3. **Notwithstanding Schedule A.1, Paragraphs 1 and 2 above, the combined thermal input of both the stationary and mobile generators, which are operated at any one time, shall not exceed 165.87 MWth.**

A.2 Generator operation for testing/maintenance.

1. **Generators shall be tested at no more than 25% load for a maximum of 30 minutes per week, one generator at a time, sequentially.**

2. **Notwithstanding Schedule A.2, Paragraph 1 above, the generators shall be tested at no more than 90% load, for a maximum of 1-hour, four times per year. The generators shall be tested one generator at a time, sequentially.**

SCHEDULE B: Emission Limits

B.1 Emissions to Air

Generators are to be operated in accordance with *Schedule A: Limitations* of this licence.

B.2 Emissions to Water

There shall be no emissions to water of environmental significance.

B.3 Emissions to Sewer

There shall be no process effluent emissions to sewer.

B.4 Noise Emissions

Daytime dB $L_{Ar,T}$ (30 minutes)	Evening time dB $L_{Ar,T}$ (30 minutes)	Night-time dB $L_{Aeq,T}$ (15 minutes) Note 1
55	50	45

Note 1: During night time hours, there shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.

SCHEDULE C: Control and Monitoring

C.1.1. Control of Emissions to Air

There shall be no emissions to air of environmental significance.

C.1.2. Monitoring of Emissions to Air

Emission Point Reference Nos.: A3-1 to A3-27

Parameter Note 1	Monitoring Frequency Note 2, Note 3	Analysis Method/Technique
CO	At least once every five years or when three times the permitted maximum average annual operating hours have elapsed.	Standard Method
NO_x	At least once every five years or when three times the permitted maximum average annual operating hours have elapsed.	Standard Method
Flow	At least once every five years or when three times the permitted maximum average annual operating hours have elapsed.	Standard Method

Note 1: SO_2 and Dust shall be included in the list of parameters for testing, at a frequency of at least once every five years, using Standard Methods, if biofuel is used as a fuel in accordance with Condition 3.16 of this licence.
Note 2: The monitoring scope & frequency may be revised subject to the approval of the Agency.
Note 3: Permitted maximum operation annual operating hours as specified in *Schedule A.1 Generator operation, other than ` testing/maintenance* of this licence.

C.2.1. Control of Emissions to Water

There shall be no emissions to water of environmental significance.

C.2.2. Monitoring of Storm Water Emissions

Emission Point Reference No.: SW1 or alternative monitoring locations as approved by the Agency

Parameter	Monitoring Frequency [Note 1]	Analysis Method/Technique
pH	Weekly	pH electrode/meter and recorder
TOC	Weekly	Standard method
Temperature	Weekly	Temperature probe with recorder
Conductivity	Weekly	Conductivity probe with recorder
Visual Inspection	Daily	Sample and examine for colour and odour.
Other parameters as may be required by the Agency	As may be required by the Agency	As may be required by the Agency

Note 1: Monitoring to be carried out during periods of discharge.

C.3.1. Control of Emissions to Sewer

There shall be no process effluent emissions to sewer.

C.3.2. Monitoring of Emissions to Sewer

There shall be no process effluent emissions to sewer.

C.4 Noise Monitoring

Period	Minimum Survey Duration
Daytime	A minimum of 3 sampling periods at each noise monitoring location [Note 1]
Evening-time	A minimum of 1 sampling period at each noise monitoring location.
Night-time [Note 2]	A minimum of 2 sampling periods at each noise monitoring location.

Note 1: Sampling period is to be the time period T stated as per *Schedule B.4 Noise Emissions*, of this licence. This applies to day, evening and night time periods.

Note 2: Night-time measurements should be made between 2300hrs and 0400hrs, Sunday to Thursday, with 2300hrs being the preferred start time.

C.5 Ambient Monitoring

Groundwater Monitoring

Location: As per the 'Baseline Report' or alternative monitoring location(s) agreed by the Agency.

Parameter	Monitoring Frequency	Analysis Method/Techniques
Relevant Hazardous Substances Note 1	Every five years	Standard Method
Other parameters as may be required by the Agency	As may be required by the Agency	As may be required by the Agency

Note 1: The substances for monitoring shall be identified by the licensee by undertaking a risk-based assessment. The risk assessment, sampling and monitoring shall be carried out in accordance with any guidance published by the Agency. The licensee shall have regard to the *'Classification of Hazardous and Non-Hazardous Substances in Groundwater'* as published by the Agency.

Soil Monitoring

Location: As per the 'Baseline Report' or alternative monitoring location(s) as approved by the Agency

Parameter	Monitoring Frequency	Analysis Method/Techniques
Relevant hazardous Substances Note 1	Every ten years	Standard Method

Note 1: The substances for monitoring shall be identified by the licensee by undertaking a risk-based assessment. The risk assessment, sampling and monitoring shall be carried out in accordance with any guidance published by the Agency. The licensee shall have regard to the '*Classification of Hazardous and Non-Hazardous Substances in Groundwater'* as published by the Agency.

Signed on behalf of the said Agency _____
On the xx day of xxxxx, 2024 xxxxxxxxxxx **Authorised Person**