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Ireland

**INDUSTRIAL EMISSIONS LICENCE**  
**Recommended Determination**

<b>Licence Register Number:</b>	<b>P0863-02</b>
<b>Company Register Number:</b>	<b>NI013573</b>
<b>Licensee:</b>	<b>Quinn Building Products Limited</b>
<b>Location of Installation:</b>	<b>Toomes, County Louth</b>

## **INTRODUCTION**

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

**The proposed installation is to be located at a greenfield site in a rural location three kilometres west of Louth village, County Louth, and will operate 24 hours a day, 365 days a year (not including maintenance). The proposed installation will operate a 450 megawatt combined cycle gas turbine for the export of electricity to the national grid.**

**The main emission to air from the proposed installation will be the emission of combustion gases, to be emitted through the main stack (A2-1). In addition there will be emissions to air from an auxiliary boiler, gas oil (diesel) fuelled generator and pumps.**

**There will be one emission point to the River Glyde upstream of Tallanstown, approximately 5km from the proposed installation. Emissions to water include treated process waste water and treated sanitary waste water, the maximum emission shall be 250m<sup>3</sup>/day. In addition surface water run-off from the proposed installation shall also discharge to the River Glyde.**

**The licensed activity falls under the following category of Annex I of the Industrial Emissions Directive:**

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

The licence sets out in detail the conditions under which **Quinn Building Products Limited** will operate and manage this installation.

## Table of Contents

	Page No
Glossary of Terms.....	1
Decision & Reasons for the Decision.....	6
Part I Schedule of Activities Licensed.....	7
Part II Schedule of Activities Refused.....	7
Part III Conditions.....	8
Condition 1.    Scope.....	8
Condition 2.    Management of the Installation.....	8
Condition 3.    Infrastructure and Operation.....	11
Condition 4.    Interpretation.....	13
Condition 5.    Emissions.....	15
Condition 6.    Control and Monitoring.....	15
Condition 7.    Resource Use and Energy Efficiency.....	18
Condition 8.    Materials Handling.....	19
Condition 9.    Accident Prevention and Emergency Response.....	19
Condition 10.   Decommissioning & Residuals Management.....	20
Condition 11.   Notification, Records and Reports.....	21
Condition 12.   Financial Charges and Provisions.....	23
SCHEDULE A:   Limitations.....	24
SCHEDULE B:   Emission Limits.....	24
SCHEDULE C:   Control & Monitoring.....	27
SCHEDULE D:   Annual Environmental Report.....	34

## ***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 / Waste Management Act 1996 as amended, unless otherwise defined in the section.

<b>Adequate lighting</b>	20 lux measured at ground level.
<b>AER</b>	Annual Environmental Report.
<b>Agreement</b>	Agreement in writing.
<b>Annually</b>	All or part of a period of twelve consecutive months.
<b>Application</b>	The application by the licensee for this licence.
<b>Appropriate Facility</b>	A waste management facility, duly authorised under relevant law and technically suitable.
<b>Attachment</b>	Any reference to Attachments in this licence refers to attachments submitted as part of this licence application.
<b>BAT</b>	Best Available Techniques.
<b>BAT conclusions</b>	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.
<b>BAT reference document</b>	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.
<b>Biannually</b>	At approximately six – monthly intervals.
<b>Biennially</b>	Once every two years.
<b>BOD</b>	5 day Biochemical Oxygen Demand (without nitrification suppression).
<b>CEN</b>	Comité Européen De Normalisation – European Committee for Standardisation.
<b>COD</b>	Chemical Oxygen Demand.

<b>Containment boom</b>	A boom that can contain spillages and prevent them from entering drains or watercourses or from further contaminating watercourses.
<b>CRO Number</b>	Company Register Number.
<b>Daily</b>	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.
<b>Day</b>	Any 24 hour period.
<b>Daytime</b>	0700 hrs to 1900 hrs.
<b>dB(A)</b>	Decibels (A weighted).
<b>DO</b>	Dissolved oxygen.
<b>Documentation</b>	Any report, record, results, data, drawing, proposal, interpretation or other document in written or electronic form which is required by this licence.
<b>Drawing</b>	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
<b>Emission limits</b>	Those limits, including concentration limits and deposition rates, established in <i>Schedule B: Emission Limits</i> , of this licence.
<b>EMP</b>	Environmental Management Programme.
<b>Environmental damage</b>	As defined in Directive 2004/35/EC.
<b>EPA</b>	Environmental Protection Agency.
<b>European Waste Catalogue (EWC)</b>	A harmonised, non-exhaustive list of wastes drawn up by the European Commission and published as Commission Decision 2000/532/EC, as amended by Commission Decision 2014/955/EU and any subsequent amendment published in the Official Journal of the European Community.
<b>Evening Time</b>	1900hrs to 2300hrs
<b>Facility</b>	Any site or premises used for the purpose of the recovery or disposal of waste.
<b>Fortnightly</b>	A minimum of 24 times per year, at approximately two week intervals.
<b>Gas Oil</b>	Gas Oil as defined in Council Directive 1999/32/EC and meeting the requirements of S.I. No. 119 of 2008.
<b>GC/MS</b>	Gas chromatography/mass spectroscopy.

<b>Groundwater</b>	Has the meaning assigned to it by Regulation 3 of the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010).
<b>ha</b>	Hectare.
<b>Hazardous Substances</b>	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.
<b>Heavy metals</b>	This term is to be interpreted as set out in "Parameters of Water Quality, Interpretation and Standards" published by the Agency in 2001. ISBN 1-84095-015-3.
<b>Hours of operation</b>	The hours during which the installation is authorised to be operational.
<b>ICP</b>	Inductively coupled plasma spectroscopy.
<b>IE</b>	Industrial Emissions.
<b>Industrial Emissions Directive</b>	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).
<b>Installation</b>	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.
<b>Irish Water</b>	Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1.
<b>K</b>	Kelvin.
<b>kPa</b>	Kilopascals.
<b><math>L_{AeqT}</math></b>	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).
<b><math>L_{A95T}</math></b>	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.
<b>Licensee</b>	<b>Quinn Building Products Limited, Gortmullen, Derrylin, County Fermanagh, CRO Number NI013573</b>

<b>List I</b>	As listed in the EC Directives 2006/11/EC and 80/68/EEC and amendments.
<b>List II</b>	As listed in the EC Directives 2006/11/EC and 80/68/EEC and amendments.
<b>Local Authority</b>	Louth County Council.
<b>Maintain</b>	Keep in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function adequately.
<b>Mass flow limit</b>	An emission limit value expressed as the maximum mass of a substance that can be emitted per unit time.
<b>Mass flow threshold</b>	A mass flow rate above which a concentration limit applies.
<b>Monthly</b>	A minimum of 12 times per year, at intervals of approximately one month.
<b>Night-time</b>	2300 hrs to 0700 hrs.
<b>Noise-sensitive location (NSL)</b>	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.
<b>Oil separator</b>	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).
<b>PRTR</b>	Pollutant Release and Transfer Register.
<b>Quarterly</b>	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
<b>Relevant Hazardous Substances</b>	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.
<b>SAC</b>	Special Area of Conservation designated under the <i>Habitats Directive</i> , Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.
<b>Sample(s)</b>	Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments.
<b>Sanitary effluent</b>	Wastewater from installation toilet, washroom and canteen facilities.
<b>Soil</b>	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.

<b>SOP</b>	Standard operating procedure.
<b>SPA</b>	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
<b>Specified emissions</b>	Those emissions listed in <i>Schedule B: Emission Limits</i> , of this licence.
<b>Standard method</b>	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.
<b>Storm water</b>	Rain water run-off from roof and non-process areas.
<b>The Agency</b>	Environmental Protection Agency.
<b>TOC</b>	Total organic carbon.
<b>Trade effluent</b>	Trade effluent has the meaning given in the Water Services Act, 2007.
<b>Trigger level</b>	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
<b>Waste</b>	Any substance or object which the holder discards or intends or is required to discard.
<b>Water Services Authority</b>	Louth County Council.
<b>Weekly</b>	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.
<b>WWTP</b>	Waste water treatment plant.



## ***Decision & 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 accordingly proposes to grant a licence to Quinn Building Products Limited to carry on the activity listed in *Part I Schedule of Activities Licensed*, subject to the conditions set out in *Part III Conditions*; **such licence to take effect in lieu of Licence Register Number: P0863-01.**

In reaching this decision the Agency has considered the documentation relating to: **the existing licence, Register Number: P0863-01**; the review application, Register Number: **P0863-02** and the supporting documentation received from the applicant; the submissions received; the Inspector's Report dated **12/04/2016**; and has carried out an Appropriate Assessment Screening of the likely significant effects of the licensed activity on European Sites.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the proposed 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 Site(s) at Stabannan-Bragganstown.

The proposed 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 can be excluded, on the basis of objective information, that the proposed 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 proposed activity was not required.

This determination was made in light of the fact that the assessment for the original licence (P0863-01) did not consider that the activity would have a significant effect on any European site, and that this review is for the purposes of the European Communities Environmental Objectives (Surface Waters) Regulations 2009 as amended and the European Communities Environmental Objectives (Ground Water) Regulations 2010 as amended (and to a lesser extent the Industrial Emissions Directive, 2010/75/EU), whereby additional and more stringent ELVs are proposed for the revised licence. No changes to the installation's infrastructure, emissions or operation were considered under this review.

## ***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 determine the review of the existing licence (Reg. No. 863-01) granted to:

**Quinn Building Products Limited, Gortmullén, Derrylin, County Fermanagh, and CRO Number NI013573**

under Section 90(2) of the said Act to carry on the following activity:

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

at Toomes, County Louth, 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 the 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 1.4 of this licence and subject to the conditions of this licence.
- 1.2 Activities at this installation shall be limited as 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. A.1.2. (Rev. P1) of the review 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 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 agreement of, the Agency.
- 1.5 The installation shall be controlled, operated and maintained, and emissions shall take place as set out in the licence. All programmes required to be carried out under the terms of this licence become part of this licence.
- 1.6 This licence is for the purpose of IE 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.
- 1.7 This licence shall have effect in lieu of the licence granted on the 22/09/2009 (Register No P0863-01).

**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), which shall incorporate energy efficiency management, in advance of the commencement of the activity. 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 Commitment of the management, including senior management.

2.2.2.2 An environmental policy defined for the installation that includes the continuous improvement for the installation by the management.

2.2.2.3 Management and Reporting Structure and responsibility.

2.2.2.4 The necessary procedures, objectives and targets, in conjunction with financial planning and investment.

2.2.2.5 Procedures that ensure employee involvement in ensuring compliance with environmental legislation.

2.2.2.6 A procedure for checking performance by sectoral benchmarking on a regular basis including energy efficiency.

2.2.2.7 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, including an evaluation of practicable options, for energy and resource efficiency, the use of cleaner technology, cleaner production and the prevention, reduction and minimisation of waste and shall include waste reduction targets. 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 and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

2.2.2.8 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 2.2.2.7. The EMP shall include:

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

The EMP shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER).

A report on the programme, including the success in meeting agreed targets, 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.

2.2.2.9 Documentation

- (i) The licensee shall **establish, maintain and implement** an environmental management documentation system.
- (ii) The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.2.2.10 Corrective and Preventative Action

- (i) The licensee shall establish maintain and implement procedures to ensure that corrective and preventative action is taken should the

specified requirements of this licence not be fulfilled. The responsibility and authority for persons initiating further investigation and corrective and preventative action in the event of a reported non-conformity with this licence shall be defined.

- (ii) Where a breach of one or more of the conditions of this licence occurs, the licensee shall without delay take measures to restore compliance with the conditions of this licence in the shortest possible time and initiate any feasible preventative actions to prevent recurrence of the breach.
- (iii) All corrective and preventative actions shall be documented

#### 2.2.2.11 Internal Audits

The licensee shall **establish, maintain and implement** a programme for independent internal audits of the EMS. Such audits shall be carried out at least once every three years. The audit programme shall determine whether or not the EMS is being implemented and maintained properly, and in accordance with the requirements of the licence. Audit reports and records of the resultant corrective and preventative actions shall be maintained as part of the EMS in accordance with condition 2.2.2.9.

#### 2.2.2.12 Awareness, Training and Competence

The licensee shall **establish, maintain and implement** 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. Appropriate records of training shall be maintained.

#### 2.2.2.13 Communications Programme

The licensee shall **establish, maintain and implement** a Public Awareness and Communications Programme to ensure that members of the public can obtain information at the installation, at all reasonable times, concerning the environmental performance of the installation.

#### 2.2.2.14 Maintenance Programme

The licensee shall **establish, maintain and implement** a programme for maintenance of all plant and equipment based on the instructions issued by the manufacturer/supplier or installer of the equipment. Appropriate record keeping and diagnostic testing shall support this maintenance programme. The licensee shall clearly allocate responsibility for the planning, management and execution of all aspects of this programme to appropriate personnel (see Condition 2.1 above). The maintenance programme shall use appropriate techniques and measures to ensure the optimisation of energy efficiency in plant and equipment.

#### 2.2.2.15 Efficient Process Control

The licensee shall **establish, maintain and implement** a programme to ensure there is adequate control of processes under all modes of operation. The programme shall identify the key indicator parameters for process control performance, as well as identifying methods for measuring and controlling these parameters. Abnormal process operating conditions shall be documented, and analysed to identify any necessary corrective action.

**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 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 the licence, shall be installed in accordance with the schedule submitted in the application.
- 3.2 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 eventual decommissioning.
- 3.3 Installation Notice Board
- (i) The licensee shall, prior to the commencement of the licensable activity, 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 1200 mm by 750 mm. 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) the licence reference number; and
    - (vi) where environmental information relating to the installation can be obtained.
- 3.4 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.
- 3.5 In the case of composite sampling of aqueous emissions from the operation of the installation, a separate composite sample or homogeneous sub-sample (of sufficient volume as advised) shall be refrigerated immediately after collection and retained as required for EPA use.
- 3.6 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.
- 3.7 Tank, Container and Drum Storage Areas
- 3.7.1 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).
  - 3.7.2 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
  - 3.7.3 All drainage from bunded areas shall be treated as contaminated unless it can be demonstrated to be otherwise. All drainage from bunded areas 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 6.12.

- 3.7.4 All inlets, outlets, vent pipes, valves and gauges must be within the bunded area.
- 3.7.5 All tanks, containers and drums shall be labelled to clearly indicate their contents.
- 3.7.6 The licensee shall apply a leak detection system in accordance with BAT to all storage tanks, container and drum storage areas that contain liquid material other than water.
- 3.8 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.
- 3.9 Silt Traps and Oil Separators
- The licensee shall, prior to commencement of the licensable activity, install and maintain silt traps and oil separators at the installation:
- (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) An oil separator on the storm water discharge from yard areas. The separator shall be a Class I full retention separator.
- The silt traps and separator shall be in accordance with I.S. EN-858-2: 2003 (separator systems for light liquids).
- 3.10 The licensee shall install and maintain an attenuation pond through which all surface water shall pass prior to discharge from the site. The attenuation pond shall have a capacity of at least 6,000 m<sup>3</sup>.
- 3.11 The licensee shall install and maintain a mechanism which shall limit the discharge of surface water to the River Glyde to less than 220m<sup>3</sup>/hour.
- 3.12 Fire-water Retention
- 3.12.1 The licensee shall, prior to commencement of the activity, carry out a risk assessment to determine if the activity should have a fire-water retention facility. The licensee shall submit the assessment and a report to the Agency on the findings and recommendations of the assessment in advance of the commencement of the licensable activity.
- 3.12.2 In the event that a significant risk exists for the release of contaminated fire-water, the licensee shall, based on the findings of the risk assessment, prepare and implement, with the agreement of the Agency, a suitable risk management programme. The risk management programme shall be fully implemented within three months of date of notification by the Agency.
- 3.12.3 In the event of a fire or a spillage to storm water, the site storm water shall be diverted for collection. The licensee shall examine, as part of the response programme in Condition 3.12.2 above, the provision of automatic diversion of storm water for collection. The licensee shall have regard to any guidelines issued by the Agency with regard to firewater retention.
- 3.12.4 The licensee shall have regard to the Environmental Protection Agency Draft Guidance Note to Industry on the Requirements for Fire-Water Retention Facilities when implementing Conditions 3.12.1 and 3.12.2 above.
- 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) in advance of the commencement of the licensable activity.
- 3.14 The provision of a catchment system to collect any leaks from flanges and valves of all over-ground pipes used to transport material other than water shall be examined. This shall be incorporated into a Schedule of Environmental Objectives and Targets set out in Condition 2. of this licence for the reduction in fugitive emissions.

- 3.15 All wellheads, as shown on Drawing No. 07-752-EHLoc-001, Section I of the licence application for licence registration No. P0863-01, shall be adequately protected to prevent contamination or physical damage in advance of the commencement of the licensable activity.
- 3.16 The licensee shall, in advance of the commencement of the licensable activity, 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.
- 3.17 The licensee shall provide and maintain a Wastewater Treatment plant at the installation for the treatment of sanitary effluent arising on-site. Any waste water treatment system and percolation area shall satisfy the criteria set out in the *Code of Practice Wastewater Treatment and Disposal Systems Serving Single Houses (p.e ≤ 10)*, published by the Environmental Protection Agency.
- 3.18 Natural gas shall be used in the gas turbine and auxiliary boilers on site. In the event of an interruption to the supply of natural gas, or for test purposes as may be required by the Commission for Energy Regulation, gas oil may be used.
- 3.19 In the event of a breakdown or malfunction of any abatement or control equipment the licensee shall:
- Reduce or close down operations where a return to normal operation is not achieved within 24 hours, such action shall be undertaken in liaison with Commission for Energy Regulation;
  - Operate the plant using low pollutant fuels; and
  - Record the duration of unabated operation
- 3.20 Under no circumstances shall the cumulative duration of unabated operation in any twelve month period exceed 120 hours without the prior written approval of the Agency.
- 3.21 **The licensee shall determine the duration of start-up and shut-down periods for the power plant. These periods shall be determined in accordance with the provisions of Commission Implementing Decision of 7th May 2012 concerning the determination of these periods for the purposes of Directive 2010/75/EU on industrial emissions.**

**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:
- The value of the 95% confidence intervals determined at the emission limit values shall not exceed the following percentages of the emission limit value:

Nitrogen Dioxide	20%
<b>Carbon Monoxide</b>	<b>10%</b>
  - The validated hourly and daily average values shall be determined within the effective operating time (excluding start-up and shut-down periods), from the measured valid hourly average values after subtraction of the confidence interval specified in Condition 4.1.1 (i) above. Any day's results in which more than three hourly average values are invalid due to malfunction or maintenance of the continuous measurement system shall be invalidated. If more than 10 days a year are invalidated the licensee shall take action as appropriate to improve the reliability of the continuous monitoring system.



- (iv) No validated daily average value shall exceed 110% of the emission limit value for Nitrogen Dioxide or Carbon Monoxide.
  - (v) No validated hourly average value shall exceed twice the emission limit value for Nitrogen Dioxide or Carbon Monoxide.
  - (vi) No validated monthly average value shall exceed the emission limit value for Nitrogen Dioxide or Carbon Monoxide.
- 4.1.2 Non-Continuous Monitoring
- (i) For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.
  - (ii) For Nitrogen Oxides and Carbon Monoxide, no 60 minute mean value shall exceed twice the emission limit value.
  - (iii) For all other parameters, no 60 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:
- 4.2.2 From non-combustion sources:  
Temperature 273K, Pressure 101.3 kPa (no correction for oxygen or water content).
- 4.2.3 From combustion sources:  
Temperature 273K, Pressure 101.3 kPa, dry gas; 15% oxygen for gas turbine, 3% oxygen for other sources.
- 4.3 Emission limit values for emissions to waters in this licence shall be interpreted in the following way:
- 4.3.2 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.
- 4.3.3 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.
- 4.3.4 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 ( $L_{Aeq, T}$ ) measured at NSLs of the installation which exceed the limit value(s).

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

## Condition 5. Emissions

- 5.1 No specified emission from the installation shall exceed the emission limit values set out in *Schedule B: Emission Limits*, of this licence. There shall be no other emissions of environmental significance.
- 5.2 No emissions, including odours, from the activities carried on at the site shall 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.
- 5.3 No substance shall be discharged in a manner, or at a concentration, that, following initial dilution, causes tainting of fish or shellfish.
- 5.4 The licensee shall ensure that all or any of the following:
- Vermin
  - Birds
  - Flies
  - Mud
  - Dust
  - Litter
- associated with the activity do not result in an impairment of, or an interference with, amenities or the environment at the installation or beyond the installation boundary or any other legitimate uses of the environment beyond the installation boundary. Any method used by the licensee to control or prevent any such impairment/interference shall not cause environmental pollution.
- 5.5 The emissions to water shall not result in the ambient temperature in the receiving water (outside the mixing zone) to rise by more than 1.5 °C or result in the river exceeding 10 °C during the period of the 1st November to 30th April.

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

## Condition 6. Control and Monitoring

- 6.1 Test Programme
- 6.1.1 The licensee shall prepare to the satisfaction of the Agency, a test programme for abatement equipment installed to abate emissions to atmosphere. This programme shall be submitted to the Agency in advance of implementation.
- 6.1.2 The programme, following agreement with the Agency, shall be completed within three months of the commencement of operation of the abatement equipment.
- 6.1.3 The criteria for the operation of the abatement equipment as determined by the test programme, shall be incorporated into the standard operating procedures.
- 6.1.4 The test programme shall as a minimum:
- (i) establish all criteria for operation, control and management of the abatement equipment to ensure compliance with the emission limit values specified in this licence; and
  - (ii) assess the performance of any monitors on the abatement system and establish a maintenance and calibration programme for each monitor.
- 6.1.5 A report on the test programme shall be submitted to the Agency within one month of completion.

- 6.2 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and as in accordance with *Schedule C: Control & Monitoring*, of this licence.
- 6.2.1 Analyses shall be undertaken by competent staff in accordance with documented operating procedures.
- 6.2.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.
- 6.2.3 Such procedures shall be subject to a programme of Analytical Quality Control using control standards with evaluation of test responses.
- 6.2.4 Where any analysis is sub-contracted it shall be to a competent laboratory.
- 6.3 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 that will ensure the provision of data of an equivalent scientific quality shall apply.
- 6.4 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 agreed 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 agreed by the Agency.
- 6.5 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission/discharge (or ambient conditions where that is the monitoring objective).
- 6.6 The licensee shall ensure that groundwater monitoring well sampling equipment is available/installed on-site and is fit for purpose at all times. The sampling equipment shall be to Agency specifications.
- 6.7 All treatment/abatement and emission control equipment shall be calibrated and maintained in accordance with the instructions issued by the manufacturer/supplier or installer.
- 6.8 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 6.9 The licensee shall prepare a programme, to the satisfaction of the Agency, for the identification and reduction of fugitive emissions using an appropriate combination of best available techniques. This programme shall be included in the Environmental Management Programme.
- 6.10 The licensee shall maintain a record, which shall be available to authorised persons from the Agency, of all start-ups and shut-downs, of all periods when the gas turbine and/or auxiliary boiler operate on gas oil (diesel oil); of all hours of operation; and of all hours when the installation is operating at less than full load.
- 6.11 The integrity and water tightness of all underground pipes, tanks, bunding structures and containers and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee prior to use. This testing shall be carried out by the licensee at least once every three years thereafter and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.
- 6.12 The stormwater drainage system (i.e., gullies, manholes, any visible drainage conduits and such other aspects as may be agreed) shall be visually inspected weekly, and desludged as necessary. Bunds, silt traps and oil separators shall be inspected weekly and desludged as

necessary. All sludge and drainage from these operations shall be collected for safe disposal. The drainage system, bunds, silt traps and oil interceptors shall be properly maintained at all times. **The licensee shall maintain a drainage map on site. The drainage map shall be reviewed annually and updated as necessary.**

6.13 Process Effluent

6.13.1 The acute toxicity of the undiluted final effluent to at least four aquatic species from different trophic levels shall be determined by standardised and internationally accepted procedures and carried out by a competent laboratory. The name of the laboratory and the scope of testing to be undertaken shall be submitted, in writing, to the Agency, within three months of commencement of the licensable activity. Once the testing laboratory and the scope of testing have been agreed by the Agency, the Agency shall decide when this testing is to be carried out and copies of the complete reports shall be submitted by the licensee to the Agency within six weeks of completion of the testing.

6.13.2 Having identified the most sensitive species outlined in Condition 6.13.1, subsequent compliance toxicity monitoring on the two most sensitive species shall be carried out by the laboratory identified in Condition 6.12.1. The Agency shall decide when this testing is to be carried out and copies of the complete reports shall be submitted by the licensee to the Agency within six weeks of completion of the testing.

6.13.3 A representative sample of effluent shall be screened for the presence of organic compounds. Such screening shall be repeated at intervals as requested by the Agency thereafter.

6.14 An inspection system for the detection of leaks on all flanges and valves on over-ground pipes used to transport materials other than water **shall be developed and maintained prior to the commencement of the activity.**

6.15 Storm Water

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

6.15.2 **The licensee shall, within six months of commencement of the activity, establish suitable trigger levels for TOC in storm water discharges, such that storm waters exceeding these levels will be diverted for retention and suitable disposal. The licensee shall have regard to the Environmental Protection Agency "Guidance on the setting of trigger values for storm water discharges to off-site surface waters at EPA IPPC and Waste licensed facilities" when establishing the suitable trigger levels.**

6.16 Noise

6.16.1 The licensee shall meet the emission limit values specified in Schedule B.4 Noise Emissions at any noise sensitive locations.

6.16.2 The licensee shall carry out a noise survey of the site operations, at four monitoring points at the site boundary (AN-1, AN-2, AN-3 and AN-4) and at three noise sensitive locations (AN-5, AN-6 and AN-7), within one month of the commencement of the licensable activities, and quarterly thereafter for the first year of operation. For subsequent years, the noise survey of the site operations shall take place annually or as agreed by the Agency. 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.**

6.16.3 The licensee shall, subject to the findings of each noise survey undertaken under Condition 6.16.2, prepare, and amend as necessary, a programme to reduce noise emissions to meet the limits specified in *Schedule B.4 Noise Emissions* of this licence. This programme must highlight specific goals and timescales, together with options for modifications, upgrading or replacement of plant and equipment. Reports on the implementation of this programme shall be submitted to the Agency as part of the AER.

**6.17 Pollutant Release and Transfer Register (PRTR)**

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

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

**6.19 Control and Monitoring for Emissions to Water**

6.19.1 The licensee shall monitor for toxicity and carbonylhydrazide as per *Schedule C.2.2 Monitoring of Emissions to Water* and *Schedule C.6 Ambient Monitoring* of this licence.

6.19.2 The licensee shall limit the use of Carbonylhydrazide as far as technically possible.

6.19.3 The licensee shall, within 18 months of the commencement of the licensable activity, investigate the feasibility of substituting carbonylhydrazide with a substance that is not assigned risk phrases associated with aquatic life or long term effects on human health. The findings of this investigation shall be reported to the Agency under Condition 2.2.2.8 of this licence.

6.19.4 The licensee shall monitor and record the daily volume of raw water used at the installation.

**6.20 Soil Monitoring**

The licensee shall carry out monitoring for relevant hazardous substances in soil and groundwater at the site of the installation. 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

6.20.1 Groundwater monitoring shall be carried out at least once every five years. Monitoring shall be carried out in accordance with *Schedule C.6 Groundwater Monitoring*.

6.20.2 Soil monitoring shall be carried out at the site of the installation at least once every ten years. Monitoring shall be carried out in accordance with *Schedule C.6 Soil Monitoring*.

<b>Reason:</b> To provide for the protection of the environment by way of treatment and monitoring of emissions.
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**Condition 7. Resource Use and Energy Efficiency**

7.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the commencement of the activity. The audit shall be carried out in accordance with the guidance published by the Agency, "Guidance Note on Energy Efficiency Auditing". The energy efficiency audit shall be repeated at intervals as required by the Agency.

7.2 The audit shall identify all practicable opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2 above.

7.3 The licensee shall identify opportunities for reduction in the quantity of water used on site including recycling and reuse initiatives, wherever possible. Reductions in water usage shall be incorporated into Schedule of Environmental Objectives and Targets.

- 7.4 The licensee shall undertake an assessment of the efficiency of use of raw materials in all processes, having particular regard to the reduction in waste generated. The assessment should take account of best international practice for this type of activity. Where improvements are identified, these shall be incorporated into the Schedule of Environmental Objectives and Targets.

**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 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.
- 8.2 Disposal or recovery of waste on-site shall only take place in accordance with the conditions of this licence and in accordance with the appropriate National and European legislation and protocols.
- 8.3 Waste sent off-site for recovery or disposal shall be transported only by an authorised waste contractor. The waste shall be transported from the site of the activity to the site of recovery/disposal only in a manner that will not adversely affect the environment and in accordance with the appropriate National and European legislation and protocols.
- 8.4 The licensee shall ensure that, in advance of transfer to another person, waste shall be classified, packaged and labelled in accordance with National, European and any other standards which are in force in relation to such labelling.
- 8.5 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run-off.
- 8.6 Waste shall be stored in designated areas, protected as may be appropriate against spillage and leachate run-off. The waste shall be clearly labelled and appropriately segregated.
- 8.7 No waste classified as green list waste in accordance with the EU Shipment of Waste Regulations (Council Regulation EEC No. 1013/2006, as may be amended) shall be consigned for recovery without the agreement of the Agency.
- 8.8 Waste for disposal/recovery off-site shall be analysed in accordance with *Schedule C: Control & Monitoring*, of this licence.
- 8.9 Unless approved in writing, in advance, by the Agency the licensee is prohibited from mixing a hazardous waste of one category with a hazardous waste of another category or with any other non-hazardous waste.
- 8.10 The licensee shall neither import waste into the State nor export waste out of the State except in accordance with the relevant provisions of Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14th June 2006 on shipments of waste and associated national regulations.

**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, in advance of the commencement of the activity, 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, in advance of the date of commencement of the activity, 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;
- (vi) notify the Agency and other relevant authorities.

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. Decommissioning & Residuals 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.

10.2 Decommissioning Management Plan (DMP)

10.2.1 The licensee shall prepare, to the satisfaction of the Agency, a fully detailed and costed plan for the decommissioning or closure of the site or part thereof. This plan shall be submitted to the Agency for agreement in advance of the commencement of the activity.

10.2.2 The plan shall be reviewed annually and proposed amendments thereto notified to the Agency for agreement as part of the AER. No amendments may be implemented without the agreement of the Agency.

10.2.3 The licensee shall have regard to the Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities (2014) and, as appropriate, **Guidance on Financial Provision for Environmental Liabilities (2015)** and the baseline report, when implementing Condition 10.2.1 above.

10.3 The Decommissioning Management Plan shall include, as a minimum, the following:

- (i) a scope statement for the plan;
- (ii) the criteria that define the successful decommissioning of the activity or part thereof, which ensures minimum impact on the environment;
- (iii) a programme to achieve the stated criteria;
- (iv) where relevant, a test programme to demonstrate the successful implementation of the decommissioning plan; and

- (v) details of the costings for the plan and the financial provisions to underwrite those costs.
- 10.4 A final validation report to include a certificate of completion for the Decommissioning Management Plan, for all or part of the site, as necessary, shall be submitted to the Agency within three months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.

**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 notify the Agency, in a format as may be specified by the Agency, one month in advance of the intended date of commencement of the Scheduled Activity.
- 11.2 The licensee shall notify the Agency by both telephone and either email or webform, to the Agency's headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- (i) an incident or accident that significantly affects the environment;
  - (ii) any release of environmental significance to atmosphere from any potential emissions point including bypasses;
  - (iii) any breach of one or more of the conditions attached to this licence;
  - (iv) any malfunction or breakdown of key control equipment or monitoring equipment set out in *Schedule C: Control and Monitoring*, of this licence which is likely to lead to loss of control of the abatement system; and
  - (v) any incident with the potential for environmental contamination of surface water or groundwater, or posing an environment threat to air or land, or requiring an emergency response by the Local Authority.
- 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.
- 11.3 Inland Fisheries Ireland shall be notified, as soon as practicable after the occurrence of any incident which relates to a discharge to water.
- 11.4 The licensee shall make a record of any notification made under Condition 11.2. 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, measures to restore compliance. The licensee shall, as soon as practicable following notification, submit to the Agency the record.
- 11.5 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.
- 11.6 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.
- 11.7 The licensee shall as a minimum ensure that the following documents are accessible at the site:
- (i) the licences relating to the installation;
  - (ii) the current EMS for the installation including all associated procedures, reports, records and other documents;
  - (iii) the previous year's AER for the installation;



- (iv) records of 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;
- (v) relevant correspondence with the Agency;
- (vi) up-to-date site drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and emission points;
- (vii) up-to-date Standard Operational Procedures for all processes, plant and equipment necessary to give effect to this licence or otherwise to ensure that standard operation of such processes, plant or equipment does not result in unauthorised emissions to the environment;
- (viii) any elements of the licence application or EIS documentation referenced in this licence.

This documentation shall be available to the Agency for inspection at all reasonable times.

- 11.8 The licensee shall submit to the Agency, by the 31<sup>st</sup> March of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule D: Annual Environmental Report*, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 11.9 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 as a minimum contain details of the following:
- (i) the tonnages and EWC Code for the waste materials or 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 results of any waste analyses required under *Schedule C: Control & Monitoring*, of this licence; and
  - (ix) the tonnage and EWC Code for the waste materials recovered/disposed on-site.
- 11.10 The licensee shall submit report(s) as required by the conditions of this licence to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency.
- 11.11 All reports shall be certified accurate and representative by the installation manager or a nominated, suitably qualified and experienced deputy.
- 11.12 **The licensee shall, prior to commencement of the licensable activity, provide a baseline report in accordance with Section 86B of the EPA Act 1992 as amended and the European Commission Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU on industrial emissions (2014/C/136/03).**

**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 €6,985.68, 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 commencement of enforcement to the 31<sup>st</sup> day of December, and shall be paid to the Agency within one month from the date of grant of the 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

- 12.2.1 The licensee shall as part of the AER, provide an annual statement as to the measures taken or adopted at the site in relation to the prevention of environmental damage, and the financial provisions in place in relation to the underwriting of costs for remedial actions following anticipated events (including closure) or accidents/incidents, as may be associated with the carrying on of the activity.
- 12.2.2 The licensee shall arrange for the completion, by an independent and appropriately qualified consultant, of a comprehensive and fully costed Environmental Liabilities Risk Assessment (ELRA) which addresses the liabilities from past and present activities. The assessment shall include those liabilities and costs identified in Condition 10 for execution of the DMP. A report on this assessment shall be submitted to the Agency for agreement in advance of the commencement of the activity. The ELRA shall be reviewed as necessary to reflect any significant change on site, and in any case every three years following initial agreement. Review results are to be notified as part of the AER.
- 12.2.3 In advance of the commencement of the activity, the licensee shall, to the satisfaction of the Agency, make financial provision to cover any liabilities associated with the operation (including closure). The amount of indemnity held shall be reviewed and revised as necessary, but at least annually. Proof of renewal or revision of such financial indemnity shall be included in the annual 'Statement of Measures' report identified in Condition 12.3.1.
- 12.2.4 Upon commencement of the licensable activity, the licensee shall revise the cost of closure annually and any adjustments shall be reflected in the financial provision made under Condition 12.3.3.
- 12.2.5 The licensee shall have regard to the Environmental Protection Agency's **Guidance on Assessing and Costing Environmental Liabilities (2014)** and, as appropriate, **Guidance on Financial Provision for Environmental Liabilities (2015)** and the baseline report, when implementing Conditions 12.2.2 and 12.2.3 above.

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

**SCHEDULE A: Limitations**

There are no limitations on the installation specified in the Schedule.

**SCHEDULE B: Emission Limits****B.1 Emissions to Air**

**Emission Point Reference No:** A2-1 (Gas Turbine Main Stack)  
**Location:** Main Stack, adjacent to Heat Recovery Steam Generator  
**Volume to be emitted:** Maximum in any one day: 63,840,000 m<sup>3</sup>  
 Maximum rate per hour: 2,660,000 m<sup>3</sup>  
**Minimum discharges height:** 60 m above ground

Parameter	Emission Limit Value (mg/m <sup>3</sup> )	
	Natural Gas	Diesel
Nitrogen oxides (as NO <sub>2</sub> )	50	90
Sulphur dioxide (SO <sub>2</sub> )	10	50
Dust	5	30
Carbon Monoxide	100	100

**B.2 Emissions to Water**

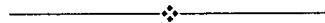
**Emission Point Reference No:** SW-1 (Treated Process Waste Water)  
**Name of Receiving Waters:** River Glyde  
**Location:** Process effluent discharge tank  
**Volume to be emitted:** Maximum in any one day: 250 m<sup>3</sup>  
 Maximum in any one hour: 10.4 m<sup>3</sup>

Parameter	Emission Limit Value
Temperature	21 °C (max) <sup>Note 1</sup>
pH	6 - 9
Toxicity	10 TU
	mg/l
BOD	20
COD	250
Suspended Solids	30
Total Dissolved Solids	1340
Nitrite (as N)	1.0
Non-ionised Ammonia (as N)	0.04
Ammonia (as N)	1.0
Total Phosphorus (as P)	0.1
Free Residual Chlorine	0.1
Mineral Oil	0.2
Oils, Fats and Grease	10

Note 1: Refer to Condition 5.5 for further temperature requirements.

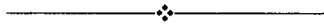
**Emission Point Reference No:** SW-2 (Treated Sanitary Effluent)  
**Name of Receiving Waters:** River Glyde  
**Location:** Proprietary sanitary effluent treatment system

Parameter	Emission Limit Value
BOD	25
Suspended Solids	35
Ammonia (as N)	5
Total Phosphorus (as P)	2



**B.3 Emissions to Sewer**

There shall be no process effluent emissions to sewer.



**B.4 Noise Emissions**

Daytime dB L <sub>Aeq,T</sub> (30 minutes)	Evening time dB L <sub>Aeq,T</sub> (30 minutes)	Night-time dB L <sub>Aeq,T</sub> (15-30 minutes)
45	40	35 <sup>Note 1</sup>

Note 1: 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 & Monitoring

#### C.1.1. Control of Emissions to Air

**Emission Point Reference No:** A2-1 (Gas Turbine Main Stack)  
**Description of Treatment:** Dry Low NO<sub>x</sub> burner (when fuelled on Natural Gas)  
 Water Injection (when fuelled on Gas Oil)

Control Parameter	Monitoring	Key Equipment <sup>Note 1</sup>
NO <sub>x</sub>	Routine inspection of equipment NO <sub>x</sub> emissions	Dry low NO <sub>x</sub> burners Water injection
CO, O <sub>2</sub> , Efflux velocity, temperature	Emission monitoring	Controlled combustion
SO <sub>2</sub>	Emission monitoring	Low sulphur fuel

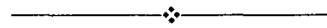
**Note 1:** The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.



#### C.1.2. Monitoring of Emissions to Air

**Emission Point Reference No:** A2-1 (Gas Turbine Main Stack)

Parameter	Monitoring Frequency	Analysis Method/Technique
Nitrogen Oxides (as NO <sub>2</sub> )	Continuous	On-line Flue gas analyser and recorder
Flow	Continuous	Flow meter and recorder
Carbon monoxide	Continuous	On-line Flue gas analyser and recorder
Temperature	Continuous	On-line Flue gas analyser and recorder
Pressure	Continuous	Pressure transmitter and recorder
Oxygen content	Continuous	On-line Flue gas analyser and recorder
Water vapour	Continuous	Moisture analyser and recorder
Sulphur dioxide	Biannual	Flue gas analyser
Dust	Biannual	Standard Method



**C.2.1. Control of Emissions to Water**

**Emission Point Reference No:** SW-1

**Description of Treatment:** Aeration and pH balancing

Control Parameter	Monitoring	Key Equipment <sup>Note 1</sup>
<b>Dissolved Oxygen</b>	Dissolved oxygen and temperature in process effluent discharge tank	Compressor Fixed DO meter
<b>pH neutralisation</b>	pH in process effluent discharge tank	Dosing pumps Agitator pH meter/recorder
<b>Effluent Balancing</b>	Discharge rate	Agitator Feed-forward pump

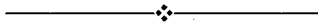
**Note 1:** The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.

**Emission Point Reference No:** SW-2

**Description of Treatment:** Proprietary Secondary Sanitary Effluent Treatment System

Control Parameter	Monitoring	Key Equipment <sup>Note 1</sup>
<b>BOD and Suspended Solids</b>	BOD and Suspended Solids in emission	Forward feed pumps Aerator Agitator etc

**Note 1:** The licensee shall maintain appropriate access to standby and/or spares to ensure the operation of the abatement system.



**C.2.2. Monitoring of Emissions to Water**

Emission Point Reference No:

SW-1 (Process Effluent Discharge)

Control Parameter	Monitoring Frequency	Key Equipment/Technique
Flow	Continuous <sup>Note 1</sup>	On-line flow meter with recorder
Temperature	Continuous	On-line temperature probe with recorder
pH	Continuous	pH electrode/meter with recorder
TOC	Continuous	On-line TOC meter with recorder
Dissolved oxygen	Continuous	On-line meter with recorder
Conductivity	Continuous	On-line analyser with recorder
Ammonia (as N)	Continuous	On-line analyser with recorder
Non-ionised Ammonia	Weekly	Standard method
Chemical Oxygen Demand	Daily <sup>Note 2</sup>	Standard Method
Biochemical Oxygen Demand	Weekly <sup>Note 2</sup>	Standard Method
Suspended Solids	Daily <sup>Note 2</sup>	Standard Method
Total Dissolved Solids	Daily <sup>Note 2</sup>	Standard Method
Nitrite (as N)	Weekly <sup>Note 2</sup>	Standard Method
Total Phosphorus (as P)	Daily <sup>Note 2</sup>	Standard Method
Free Residual Chlorine	Monthly	Standard Method
Organic Compounds <sup>Note 3</sup>	Monthly	Standard Method
Oils, fats and greases	Monthly	Standard Method
Mineral Oil	Monthly	Standard Method
Toxicity <sup>Note 4</sup>	As may be required	To be agreed by the Agency
Carbohydrazide	Annual	To be agreed by the Agency

**Note 1:** Total effluent discharged over the 24 hour period in which the composite sample is collected shall be recorded.

**Note 2:** The licensee shall install a composite sampler prior to the commencement of the licensable activity. All samples shall be collected on a 24 hour flow proportional composite sampling basis.

**Note 3:** Screening for priority pollutant list substances (such as US EPA volatile and/or semi-volatile compounds). This analysis shall include those organic solvents in use in the process, which are likely through normal process operators to be diverted to the wastewater streams.

**Note 4:** The number of toxic units (Tu) = 100/x hour EC/LC<sub>50</sub> in percentage vol/vol so that higher Tu values reflect greater levels of toxicity. For test regimes where species death is not easily detected, immobilisation is considered equivalent to death.



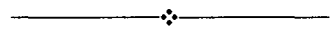
Emission Point Reference No: SW-2 (Sanitary Effluent Discharge)

Control Parameter	Monitoring Frequency	Key Equipment/Technique
BOD	Quarterly	Standard Method
Suspended Solids	Quarterly	Standard Method
Ammonia (as N)	Quarterly	Standard Method
Total Phosphorus (as P)	Quarterly	Standard Method

**C.2.3. Monitoring of Storm Water Emissions**

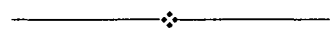
**Emission Point Reference No:** SW-3 (Combined discharge to surface water: process effluent, sanitary effluent and surface water)

Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Continuous	pH electrode/meter
TOC	Continuous	TOC analyser
Conductivity	Monthly	Standard method
Total Ammonia	Biannually	Standard method



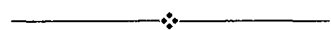
**C.3.1. Control of Emissions to Sewer**

There shall be no process effluent emissions to sewer.



**C.3.2. Monitoring of Emissions to Sewer**

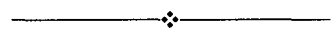
There shall be no process effluent emissions to Sewer.



**C.4 Waste Monitoring**

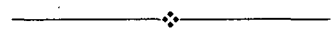
Waste Class	Frequency	Parameter	Method
Compressor Waste Water Other <sup>Note 1</sup>	Per consignment	Quantity	Standard Method

Note 1: Analytical requirements to be determined on a case by case basis.



**C.5 Noise Monitoring**

No additional noise monitoring is required in this schedule.



**C.6 Ambient Monitoring**

**Groundwater Monitoring**

**Location:** Three groundwater monitoring boreholes, to be agreed with the Agency.

Parameter	Monitoring Frequency	Analysis Method/Techniques
pH	Biannually	pH electrode/meter
Nitrate	Biannually	Standard Method
Total Ammonia	Biannually	Standard Method
Total Nitrogen	Biannually	Standard Method
Conductivity	Biannually	Standard Method
Relevant Hazardous Substances	Biannually	Standard Method

**Note 1:** Groundwater monitoring for relevant hazardous substances shall be in accordance with Condition 6.20.

**Receiving Water Monitoring**

**Location:** ASW1 (c. 70 metres upstream of discharge point)  
(Grid Reference 295305E, 297990N)  
ASW3 (c. 310 metres downstream of the discharge point)  
(295497E, 297730N)

Parameter	Monitoring Frequency <sup>Note 1</sup>	Analysis Method/Techniques
SSRS Assessment/Biological Quality (Q) Rating/Q Index <sup>Note 2</sup>	Annually	To be agreed by the Agency
Carbohydrazide	Bi-annually	To be agreed by the Agency
Temperature	Monthly	Temperature probe
BOD	Quarterly	Standard Method
Nitrite (as N)	Quarterly	Standard Method
Ammonia (as N)	Quarterly	Standard Method
Ortho-phosphorus (as P)	Quarterly	Standard Method

**Note 1:** Monitoring period – June to September.

**Note 2:** SSRS assessment must be undertaken by an appropriately qualified person.

**Soil Monitoring**

**Monitoring Location:** As per the 'Baseline Report' or alternative monitoring location(s) as agreed by the Agency<sup>Note 1</sup>

Parameter	Monitoring Frequency	Analysis Method/Techniques
Relevant hazardous Substances <sup>Note 2</sup>	Every ten years	Standard Method

Note 1: Baseline report to be submitted to the Agency prior to commencement of licensable activity. See Condition 11.12

Note 2: Soil monitoring for relevant hazardous substances shall be in accordance with Condition 6.20.

### SCHEDULE D: Annual Environmental Report

Annual Environmental Report Content <small>Note 1</small>
Emissions from the installation.
Waste management record.
Resource consumption summary.
Complaints summary.
Schedule of Environmental Objectives and Targets.
Environmental management programme – report for previous year.
Environmental management programme – proposal for current year.
Pollutant Release and Transfer Register – report for previous year.
Pollutant Release and transfer Register – proposal for current year.
Noise monitoring report summary.
Ambient monitoring summary.
Tank and pipeline assessment report.
Reported incidents summary.
Energy efficiency audit report summary.
Report on the assessment of the efficiency of use of raw materials in processes and the reduction in waste generated.
Report on progress made and proposals being developed to minimise water demand and the volume of trade effluent discharges.
<b>Development/Infrastructural works summary (completed in previous year or prepared for current year).</b>
Reports on financial provision made under this licence, management and staffing structure of the installation, and a programme for public information.
Review of decommissioning management plan
Statement of measures in relation to prevention of environmental damage and remedial actions (Environmental Liabilities).
Environmental Liabilities Risk Assessment Review (every three years or more frequently as dictated by relevant on-site change including financial provisions.
Any other items specified by the Agency.

Note 1: Content may be revised subject to the agreement of the Agency.

Signed on behalf of the said Agency \_\_\_\_\_  
On the xx day of xxxxx, 200X      xxxxxxxxxxxx      Authorised Person

