



Headquarters,  
Johnstown Castle Estate,  
County Wexford, Ireland

## GREENHOUSE GAS EMISSIONS PERMIT

<b>Permit Register Number:</b>	IE-GHG166-10429-2
<b>Operator:</b>	Cushaling Power Limited C/O Bord Na Mona Offices Main St Newbridge Kildare
<b>Installation Name:</b>	Cushaling Power Limited
<b>Site Name:</b>	Edenderry Power Plant
<b>Location:</b>	Ballykilleen Edenderry Offaly Ireland

## Introductory Note

***This introductory note does not form a part of the Greenhouse Gas Emissions Permit.***

This Greenhouse Gas Emissions Permit authorises the holder to undertake named activities resulting in emissions of Carbon Dioxide from the listed emission sources. It also contains requirements that must be met in respect of such emissions, including monitoring and reporting requirements. This Greenhouse Gas Emissions Permit places an obligation on the Operator to surrender allowances to the Agency equal to the annual reportable emissions of carbon dioxide equivalent from the installation in each calendar year, no later than four months after the end of each such year.

### Contact with Agency:

If you contact the Agency about this Greenhouse Gas Emissions Permit please quote the following reference: Greenhouse Gas Emissions Permit N<sup>o</sup> IE-GHG166-10429.

All correspondence in relation to this permit should be addressed to:

*Email:* help.ets@epa.ie

*By Post:* Climate Change Unit, Environmental Protection Agency  
Regional Inspectorate, McCumiskey House,  
Richview, Clonskeagh Road, Dublin 14

### Updating of the permit:

This Greenhouse Gas Emissions Permit may be updated by the Agency, subject to compliance with Condition 2. The current Greenhouse Gas Emissions Permit will normally be available on the Agency's website at [www.epa.ie](http://www.epa.ie) and [ETSWAP](#).

### Surrender of the permit:

Before this Greenhouse Gas Emissions Permit can be wholly or partially surrendered, a written application must be made to the on-line ETS portal, and written permission received from, the Agency through [ETSWAP](#).

### Transfer of the permit or part of the permit:

Before this Greenhouse Gas Emissions Permit can be wholly or partially transferred to another Operator a joint written application to transfer this Greenhouse Gas Emissions Permit must be made (by both the existing and proposed Operators) to, and written permission received from, the Agency through the on-line ETS portal [ETSWAP](#).

**Licence held pursuant to the Environmental Protection Agency Act 1992, as amended.** (as of the date of this permit):

<b>IPC/IE Licence Register Number</b>
P0482-04

## Status Log

### Current Permit

Permit number	Date application received	Date Permit issued	Comment
IE-GHG166-10429-2	21 January 2014	07 August 2014	Update of Procedure Descriptions.

### Previous Permits

Permit number	Change Type	Date application received	Date Permit issued	Comment
IE-GHG166-10429-1	GHG Permit Application	26 March 2013	08 May 2013	

### End of Introductory Note



## Glossary of Terms

For the purposes of this permit the terms listed in the left hand column shall have the meaning given in the right hand column below:

The Agency	Environmental Protection Agency.
Agreement	Agreement in writing.
Allowance	Permission to emit to the atmosphere one tonne of carbon dioxide equivalent during a specified period issued for the purposes of Directive 2003/87/EC by the Agency or by a designated national competent authority of a Member State of the European Union.
Annual Reportable Emissions	Reportable Emissions of carbon dioxide made in any calendar year commencing from 1 January 2005 or the year of commencement of the activity, whichever is the later.
A & V Regulation	Commission Regulation (EU) No 600/2012 of 21 June 2012 on the verification of greenhouse gas emission reports and tonne-kilometre reports and the accreditation of verifiers pursuant to Directive 2003/87/EC of the European Parliament and of the Council and any amendments or revisions thereto.
Category A Installation	As defined in Article 19.2 (a) of the M&R Regulation.
Category B Installation	As defined in Article 19.2 (b) of the M&R Regulation.
Category C Installation	As defined in Article 19.2 (c) of the M&R Regulation.
The Directive	Directive 2003/87/EC of the European Parliament and of the Council of 13 October 2003 establishing a scheme for greenhouse gas emission allowance trading within the Community and amending Council Directive 96/61/EC.
Emissions	The release of greenhouse gases into the atmosphere from sources in an installation.
EPA	Environmental Protection Agency.
Fall-Back Methodology	As defined in Article 22 of the M&R Regulation.
GHG	Greenhouse gas.
GHG Permit	Greenhouse gas emissions permit.
Greenhouse Gas	Any of the gases in Schedule 2 of the Regulations.
IPC/IE	Integrated Pollution Control/Industrial Emissions.
Installation	Any stationary technical unit where one or more activities listed in Schedule 1 to the Regulations are carried out. Also any other directly associated activities which have a technical connection with the activities carried out on that site and which could have an effect on emissions and pollution. References to an installation include references to part of an installation.

Installation with low emissions	As defined in Article 47 of the M&R Regulation.
Major Source Streams	As defined in Article 19.3 (c) of the M&R Regulation.
M&R Regulation	Commission Regulation (EU) No 601/2012 of 21 June 2012 on the monitoring and reporting of greenhouse gas emissions pursuant to Directive 2003/87/EC of the European Parliament and of the Council and any amendments or revisions thereto.
Mis-statement	An omission, misrepresentation or error in the Operators reported data, not considering the uncertainty permissible pursuant to Article 12(1)(a) of Regulation (EU) no 601/2012.
N/A	Not applicable.
Monitoring Plan	The Plan submitted and approved in accordance with Condition 3.1 of this permit and attached at Appendix 1.
Non-conformity	Any act or omission by the Operator, either intentional or unintentional, that is contrary to the greenhouse gas emissions permit and the requirements of the Monitoring Plan.
The National Administrator	The person so designated in accordance with the requirements of any Regulations adopted as provided for under Article 19.3 of Directive 2003/87/EC.
The Operator (for the purposes of this permit)	Cushaling Power Limited
“operator”	Any person who operates or controls an installation or to whom decisive economic power over the functioning of the installation has been delegated.
Person	Any natural or legal person.
Reportable emissions	The total releases to the atmosphere of carbon dioxide (expressed in tonnes of carbon dioxide equivalent) from the emission sources specified in Table 2 and arising from the Schedule 1 activities which are specified in Table 1.
The Regulations	European Communities (Greenhouse Gas Emissions Trading) Regulations 2012 (S.I. No 490 of 2012) and any amendments or revisions thereto.
The Verifier	A legal person or another legal entity carrying out verification activities pursuant to Regulation (EU) No 600/2012 and accredited by a national accreditation body pursuant to Regulation (EC) No 765/2008 and Regulation (EU) No 600/2012 or a natural person otherwise authorised, without prejudice to Article 5(2) of Regulation (EC) No 765/2008, at the time a verification report is issued.
The Registry	The Registry as provided for under Article 19 of Directive 2003/87/EC.

Schedule 1

Schedule 1 to the Regulations.



## Reasons for the Decision

The Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this permit, the Operator is capable of monitoring and reporting emissions in accordance with the requirements of the Regulations.

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## Activities Permitted

Pursuant to the Regulations the Agency transfers this Greenhouse Gas Emissions Permit, subject to any subsequent revisions, corrections or modifications it deems appropriate, to:

### The Operator:

Cushaling Power Limited  
C/O Bord Na Mona Offices  
Main St  
Newbridge  
Kildare

Company Registration Number: 473629

from

### The Former Operator:

Edenderry Power Operations Limited  
Ballykilleen

Edenderry  
Offaly

to carry out the following

### Categories of activity:

Annex 1 Activity
Combustion of fuels in installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)

at the following installation(s):

Cushaling Power Limited **Installation number:** 128



located at

Ballykilleen  
Edenderry  
Offaly  
Ireland

subject to the five conditions contained herein, with the reasons therefor and associated tables attached thereto.

In accordance with Joint Declaration made to the Agency on 29 July 2010, *Cushaling Power Limited* is deemed to have assumed and accepted all liabilities, requirements and obligations provided for in or arising under the permit, regardless of how and in respect of what period, including the period 28 May to 17 August 2010, prior to the transfer of the permit, that may arise.

# Conditions

## Condition 1. The Permitted Installation

- 1.1 This permit is being granted in substitution for the previous GHG permit granted to the Operator as listed in the Status Log of this GHG permit.
- 1.2 The Operator is authorised to undertake the activities and/or the directly associated activities specified in Table 1 below resulting in the emission of carbon dioxide:

**Table 1 - Activities which are listed in Schedule 1 of the Regulations and other directly associated activities carried out on the site:**

Installation No.: 128

Activity Description
Combustion of fuels in installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)

Directly Associated Activity Description
N/A

- 1.3 Carbon dioxide from Schedule 1 activities shall be emitted to atmosphere only from the emission sources as listed in Table 2 below:

**Table 2 Emission Sources and Capacities:**

Emission Source Reference	Emission Source Description	Capacity	Capacity Units
S1	Gas Turbine 1 Stack	79.82	MW
S2	Gas Turbine 2 Stack	79.82	MW
S3	Gas Turbine 3 Stack	79.82	MW
S4	Gas Turbine 4 Stack	79.82	MW
S5	Auxiliary Generator Stack	1.79	MW

- 1.4 The activity shall be controlled, operated and maintained so that emissions of carbon dioxide shall take place only as set out in this GHG Emissions Permit. The permit does not control emissions of gases other than carbon dioxide. All agreed plans, programmes and methodologies required to be carried out under the terms of this permit, become part of this permit.
- 1.5 This GHG Permit is for the purposes of GHG emissions permitting under the European Communities (Greenhouse Gas Emissions Trading) Regulations 2012 and any amendments to the same only and nothing in this permit shall be construed as negating the Operator’s statutory obligations or

requirements under any other enactments or regulations unless specifically amended by the Regulations.

- 1.6 Any reference in this permit to 'installation' shall mean the installation as described in the Greenhouse Gas Emissions Permit application and any amendments approved by the Agency.

*Reason: To describe the installation and clarify the scope of this permit.*

## **Condition 2. Notification**

- 2.1 No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in a change in:
- 2.1.1 the nature or functioning of the installation;
  - 2.1.2 the capacity of the installation as detailed in this permit;
  - 2.1.3 the fuels used at the installation;
  - 2.1.4 the range of activities to be carried out at the installation
- that may require updating of the GHG permit shall be carried out or commenced without prior notice to and without the prior written agreement of the Agency.
- 2.2 The Operator shall notify the Agency in writing of the cessation of all or part of any activity listed in Table 1 of this permit no later than one month from the date of cessation or by 31 December of the year of cessation, whichever is sooner.
- 2.3 The Operator shall apply for an update of this GHG Permit where there is a change to the Operator name and/or registered address of the Operator, within seven days of the change.
- 2.4 For installations or parts of installations which have not come into operation when the application for this permit was made the Operator shall notify the Agency of the date of commencement of the activity within seven days of commencement.
- 2.5 The Operator shall notify the Agency in writing within three days of becoming aware of any factors which may prevent compliance with the conditions of this permit.
- 2.6 The Operator shall submit to the Agency by 21 January of each year a declaration of operability. The declaration submitted shall be in the format required by the Agency.
- 2.7 All notifications required under Condition 2 above shall be made to the address given in the Explanatory Note included with this permit.

*Reason: To provide for the notification of updated information on the activity.*

## **Condition 3. Monitoring and Reporting**

- 3.1 The Operator shall monitor and record greenhouse gas emissions on site in accordance with the M&R Regulation and the approved Monitoring Plan attached at Appendix 1 to this GHG permit and in compliance with any other guidance approved by the Agency for the purposes of implementing the Directive and/or the Regulations.
- 3.2 The Operator shall modify the monitoring plan in any of the following situations:
- 3.2.1 new emissions occur due to new activities carried out or due to the use of new fuels or materials not yet contained in the monitoring plan;

- 3.2.2 the change of availability of data, due to the use of new measurement instrument types, sampling methods or analysis methods, or for other reasons, leads to higher accuracy in the determination of emissions;
- 3.2.3 data resulting from the previously applied monitoring methodology has been found incorrect;
- 3.2.4 changing the monitoring plan improves the accuracy of the reported data, unless this is technically not feasible or incurs unreasonable costs;
- 3.2.5 the monitoring plan is not in conformity with the requirements of the M&R Regulation and the Agency requests a change;
- 3.2.6 it is necessary to respond to the suggestions for improvement of the monitoring plan contained in the verification report.

The Operator shall notify any proposals for modification of the monitoring plan to the Agency without undue delay. Any significant modifications of the monitoring plan, as defined in Article 15 of the M&R Regulation, shall be subject to approval by the Agency. Where approved these changes shall be implemented within a timeframe agreed by the Agency.

### 3.3 Temporary changes to the monitoring methodology:

3.3.1 Where it is for technical reasons temporarily not feasible to apply the tier in the monitoring plan for the activity data or each calculation factor of a fuel or material stream as approved by the Agency, the Operator shall apply the highest achievable tier until the conditions for application of the tier approved in the monitoring plan have been restored. The Operator shall take all necessary measures to allow the prompt restoration of the tier in the approved monitoring plan. The Operator shall notify the temporary change to the monitoring methodology without undue delay to the Agency specifying:

- (i) The reasons for the deviation from the tier;
- (ii) in detail, the interim monitoring methodology applied by the Operator to determine the emissions until the conditions for the application of the tier in the monitoring plan have been restored;
- (iii) the measures the Operator is taking to restore the conditions for the application of the tier in the approved monitoring plan;
- (iv) the anticipated point in time when application of the approved tier will be resumed.

3.3.2 A record of all non-compliances with the approved monitoring plan shall be maintained on-site and shall be available on-site for inspection by authorised persons of the Agency and/or by the Verifier at all reasonable times.

3.4 The Operator shall appoint a Verifier to ensure that, before their submission, the reports required by Condition 3.5 below are verified in accordance with the criteria set out in Schedule 5 of the Regulations, the A&V Regulation and any more detailed requirements of the Agency.

3.5 The written report of the verified annual reportable emissions and the verification report in respect of each calendar year shall be submitted to the Agency by the Operator no later than 31 March of the following year. The reports shall be in the format required by the Agency and meet the criteria set out in the M&R and A&V Regulations.

3.6 The Operator shall enter the verified annual reportable emissions figure for the preceding year into the Registry no later than 31 March of the following year. This figure shall be electronically approved by the Verifier in the registry no later than 31 March of each year.

- 3.7 Where an Operator is applying the Fall-Back methodology, the Operator shall assess and quantify each year the uncertainties of all parameters used for the determination of the annual emissions in accordance with the ISO Guide to the Expression of Uncertainty in Measurement or another equivalent internationally accepted standard and include the verified results in the written report of the verified annual reportable emissions to be submitted to the Agency by 31 March each year.
- 3.8 An Operator shall submit to the Agency for approval a report containing the information detailed in (i) or (ii) below, where appropriate, by the following deadlines:
- (a) for a category A installation, by 30 June every four years;
  - (b) for a category B installation, by 30 June every two years;
  - (c) for a category C installation, by 30 June every year.
- (i) Where the Operator does not apply at least the tiers required pursuant to the first subparagraph of Article 26(1) and to Article 41(1) of the M&R Regulation, the Operator shall provide a justification as to why it is technically not feasible or would incur unreasonable costs to apply the required tiers. Where evidence is found that measures needed for reaching those tiers have become technically feasible and do not incur unreasonable costs, the Operator shall notify the Agency of appropriate modifications to the monitoring plan and submit proposals for implementing appropriate measures and its timing.
- (ii) Where the Operator applies a fall-back monitoring methodology, the Operator shall provide a justification as to why it is technically not feasible or would incur unreasonable costs to apply at least tier 1 for one or more major or minor source streams. Where evidence is found that measures needed for reaching at least tier 1 for those source streams have become technically feasible and do not incur unreasonable costs, the Operator shall notify the Agency of appropriate modifications to the monitoring plan, submit proposals and a timeframe for implementing appropriate measures.
- 3.9 Where the verification report states outstanding non conformities, misstatements or recommendations for improvements the Operator shall submit a report to the Agency for approval by 30 June of the year in which the verification report is issued. This requirement does not apply to the Operator of an installation with low emissions where the verification report contains recommendations for improvements only. The report shall describe how and when the Operator has rectified or plans to rectify the non-conformities identified and to implement recommended improvements. Where recommended improvements would not lead to an improvement of the monitoring methodology this must be justified by the Operator. Where the recommended improvements would incur unreasonable costs the Operator shall provide evidence of the unreasonable nature of the costs. The Operator shall implement the improvements specified by the Agency in response to the report submitted in accordance with this Condition in accordance with a timeframe set by the Agency.
- 3.10 The Operator shall make available to the Verifier and to the Agency any information and data relating to emissions of carbon dioxide which are required in order to verify the reports referred to in Condition 3.5 above or as required by the Agency to facilitate it in establishing benchmarks and/or best practice guidance.
- 3.11 Provision shall also be made for the transfer of environmental information, in relation to this permit, to the Agency's computer system, as may be requested by the Agency.
- 3.12 The Operator shall retain all information as specified in the M&R Regulation for a period of at least 10 years after the submission of the relevant annual report. This shall include all annual emissions reports submitted by the Former Operator(s) in respect of the installation.

- 3.13 A record of independent confirmation of capacities listed in this permit or agreed with the Agency in writing as minor emissions shall be available on-site for inspection by authorised persons of the Agency at all reasonable times.
- 3.14 The Operator shall keep records of all modifications of the monitoring plan. The records shall include the information specified in Article 16.3 of the M&R Regulation.
- 3.15 The Operator shall ensure that members of the public can view a copy of this permit and any reports submitted to the Agency in accordance with this permit at all reasonable times. This requirement shall be integrated with the requirements of any public information programme approved by the Agency in relation to any other permit or licence held by the Operator for the site.
- 3.16 Any discrepancies with regard to reports submitted by the Former Operator(s) in respect of this installation become the liability of the Operator.

*Reason: To provide for monitoring and reporting in accordance with the Regulations.*

## **Condition 4. Allowances**

- 4.1 Surrender of Allowances
- 4.1.1 The Operator shall, by 30 April in each year, surrender to the Agency, or other appropriate body specified by the Agency, allowances equal to the annual reportable emissions in the preceding calendar year.
- 4.1.2 The number of allowances to be surrendered shall be the annual reportable emissions for the preceding calendar year plus such allowances as may be necessary to cover any earlier calendar year in respect of which allowances remain outstanding and due, including any liabilities arising from the period before the permit was transferred. This includes allowances to cover the amount of any annual reportable emissions in respect of which allowances were not surrendered in accordance with Condition 4.1.1 in the previous year, and the amount of any reportable emissions which were discovered during the previous year to have been unreported in reports submitted under Condition 3 in that or in earlier years.
- 4.1.3 In relation to activities or parts of activities which have ceased to take place and have been notified to the Agency in accordance with Condition 2.2 above, the Operator shall surrender to the Agency allowances equal to the annual reportable emissions from such activities in the preceding calendar year or part thereof, together with such allowances as may be necessary to cover any earlier calendar year in respect of which allowances remain outstanding and due as described in Condition 4.1.2 above.
- 4.1.4 The Operator may, from 2008 onwards, subject to the provisions of the Regulations and the relevant National Allocation Plan for that compliance year, surrender emission reduction units (ERUs) and certified emission reduction units (CERs) in place of allowances.
- 4.2 The holding, transfer, surrender and cancellation of allowances shall be in accordance with the requirements of any Regulations adopted as provided for under Article 19.3 of Directive 2003/87/EC, any amendment or revision to the same and any guidance issued by the Agency or the National Administrator.
- 4.3 The Operator shall provide the National Administrator with all the necessary information for the opening of an Operator holding account for the installation described in Condition 1 of this permit within twenty working days of the issue of this permit, unless such an account is already open.

*Reason: To provide for the surrendering, holding, transfer and cancellation of allowances in respect of reported emissions.*

## Condition 5. Penalties

5.1 Any Operator who fails to comply with Condition 4.1 above shall be subject to the provisions of the Regulations, including, but not limited to the payment of penalties.

*Reason: To provide for the payment of excess emissions penalties as required under the Regulations.*

Sealed by the seal of the Agency on this the 07 August 2014:

PRESENT when the seal of the Agency was affixed hereto:

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Ms. Annette Prendergast  
Inspector/ Authorised Person



# Appendix 1 to Greenhouse Gas Emissions Permit Number IE-GHG166-10429

## Monitoring Plan

### 1. Guidelines & Conditions

1. Directive 2003/87/EC as amended by Directive 2009/29/EC (hereinafter "the (revised) EU ETS Directive") requires operators of installations which are included in the European Greenhouse Gas Emission Trading Scheme (the EU ETS) to hold a valid GHG emission permit issued by the relevant Competent Authority and to monitor and report their emissions and have the reports verified by an independent and accredited verifier.

The Directive can be downloaded from:

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:2003L0087:20090625:EN:PDF>

2. The Monitoring and Reporting Regulation (Commission Regulation (EU) No 601/2012) (hereinafter the "MRR") defines further requirements for monitoring and reporting.

The MRR can be downloaded from:

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:181:0030:0104:EN:PDF>

Article 12 of the MRR sets out specific requirements for the content and submission of the monitoring plan and its updates. Article 12 outlines the importance of the Monitoring plan as follows:

*The monitoring plan shall consist of a detailed complete and transparent documentation of the monitoring methodology of a specific installation [or aircraft operator] and shall contain at least the elements laid down in Annex I.*

Furthermore Article 74(1) states:

*Member States may require the operator and aircraft operator to use electronic templates or specific file formats for submission of monitoring plans and changes to the monitoring plan as well as for submission of annual emissions reports tonne-kilometre data reports verification reports and improvement reports. Those templates or file format specifications established by the Member States shall at least contain the information contained in electronic templates or file format specifications published by the Commission*

3. All Commission guidance documents on the Monitoring and Reporting Regulation will be published at the link below as they become available:

[http://ec.europa.eu/clima/policies/ets/monitoring/index\\_en.htm](http://ec.europa.eu/clima/policies/ets/monitoring/index_en.htm)

#### (a) Information sources:

##### EU Websites:

EU-Legislation: <http://eur-lex.europa.eu/en/index.htm>

EU ETS general: [http://ec.europa.eu/clima/policies/ets/index\\_en.htm](http://ec.europa.eu/clima/policies/ets/index_en.htm)

Monitoring and Reporting in the EU ETS: [http://ec.europa.eu/clima/policies/ets/monitoring/index\\_en.htm](http://ec.europa.eu/clima/policies/ets/monitoring/index_en.htm)

**Environmental Protection Agency Website:**

<http://www.epa.ie>

**Environmental Protection Agency Contact:**

[GHGpermit@epa.ie](mailto:GHGpermit@epa.ie)

## 2. Application Details

The Installation Name, Site Name and the address of the site of the installation are detailed below. The Site Name and address can be updated from the Organisation Details Page on the ETSWAP website. The Installation Name can only be updated by your Competent Authority.

<b>Installation name</b>	Cushaling Power Limited
<b>Site name</b>	Edenderry Power Plant
<b>Address</b>	Ballykilleen Edenderry Offaly Ireland

<b>Grid reference of site main entrance</b>	E 260913 N 226958
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<b>Licence held pursuant to the Environmental Protection Agency Act 1992, as amended.</b>	Yes
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IPC/IE Licence Register Number	Licence holder	Competent body
P0482-04	Edenderry Power Limited	EPA

Has the regulated activity commenced at the Installation? Yes

<b>Date of Regulated Activity commencement</b>	13 September 2010
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This information is only required to identify the first relevant reporting year of an installation. If the installation was in operation from the beginning of 2008 and held a Greenhouse Gas Emissions Permit from this point, 1 January 2008 will be used where the actual date of commencement is not readily known.

### 3. About the Operator

The information about the "Operator" is listed below. The "Operator" is defined as the person who it is proposed will have control over the relevant Regulated Activities in the installation in respect of which this application is being made.

#### (b) Operator Details

The name of the operator and where applicable the company registration number are detailed below. These details can only be updated by the Environmental Protection Agency.

**Operator name** Cushaling Power Limited

**Company Registration Number** 473629

#### Operator Legal status

The legal status of the operator is: Company / Corporate Body

**(c) Company / Corporate Body**

Is the trading / business name different to the operator name? No

Details of the individual authorised to submit this application on behalf of the company / corporate body.

Title	[REDACTED]
Forename	[REDACTED]
Surname	[REDACTED]
Position	Environmental, Health & Safety Manager

**Registered office address**

Address Line 1	C/O Bord Na Mona Offices
Address Line 2	Main St
City/Town	Newbridge
County	Kildare
Postcode	N/A

**Principal office address**

Is the principal office address different to the registered office address? Yes

Address Line 1	Ballykilleen
Address Line 2	N/A
City/Town	Edenderry
County	Offaly
Postcode	N/A
Company registration number	473629

**Holding company**

Does the company belong to a holding company? Yes

Holding company name Bord Na Mona Plc

**Holding company address**

Address Line 1	Main Street
Address Line 2	N/A
City/Town	Newbridge
County	Kildare
Postcode	N/A
Company registration number	297717

Is the holding company principal address different to the holding company address? No

**(d) Operator Authority**

Does the operator named above have the authority and ability to:

- a. manage site operations through having day-to-day control of plant operation including the manner and rate of operation Yes
- b. ensure that permit conditions are effectively complied with Yes
- c. control monitor and report specified emissions Yes
- d. be responsible for trading in Allowances so that at the end of a reporting period allowances can be balanced against reported emissions. Yes

**4. Service Contact**

**e. Service Contact**

Name	
Address / Email Address	Edenderry Power Plant Ballykilleen Edenderry Offaly

**5. Installation Activities**

**f. Installation Description**

Below is a description of the installation and its activities, a brief outline description of the site and the installation and the location of the installation on the site. The description also includes a non-technical summary of the activities carried out at the installation briefly describing each activity performed and the technical units used within each activity.

Cushaling Power Limited, a subsidiary of Bord na Mona, operates two Pratt and Whitney Twinpac FT8 gas turbine units at their site in Ballykilleen, Edenderry, Co Offaly. The electrical output from each of the units is approximately 58 megawatts, giving a total site output capacity of 116 megawatts.

The Twinpac units are comprised of two interlinked gas turbines sharing a common generator. Each Twinpac unit has two stacks giving a total of four stacks. Air emissions from the four gas turbines is discharged through the four dedicated 20m exhaust stacks. The units are fuelled with low sulphur gas oil. The full installation also includes two 1200m<sup>3</sup> Gas Oil storage Tanks, one 1200m<sup>3</sup> Demineralised Water Tank, and an auxiliary diesel generator for emergency backup.

The process involves the combustion of gas oil in a gas turbine that drives a generator for electricity production. The turbine comprises an air compressor, a combustion chamber, a turbine and a generator. The air compressor draws in large quantities of air and compresses it within the combustion chamber where it flows through the turbine. Following injection of fuel into the combustion chamber the combined gases within the chamber reach temperatures of greater than 1,000 C. This increase in temperature increases the velocity of the gases through the turbine providing sufficient power to operate the air compressor and produce the desired electrical power output. The waste gases from the process, following expansion and the extraction of mechanical work are discharged to atmosphere via the stacks.

The plant operates to supply peaking capacity and National Grid support. These plants do not normally operate continuously or at night-time and night-time operation is therefore not foreseen. Dependant on dispatch levels, the plant is typically expected to operate for 80 to 150 hours annually.

Fuel will be metered as delivered and tank stock levels will be monitored; this information will be used in conjunction with Nationally Published Energy and Emission Factor values to generate reports for Green House Gas Reporting

**g. Annex 1 Activities**

The table below lists the technical details for each Annex 1 activity carried out at the installation.

Note that 'capacity' in this context means:

- Rated thermal input (for combustion installations) which is defined as the rate at which fuel can be burned at the maximum continuous rating of the installation multiplied by the calorific value of the fuel and expressed as megawatts thermal.
- Production capacity for those specified Annex I activities for which production capacity determines ETS eligibility.

Annex 1 Activity	Total Capacity	Capacity units	Specified Emissions
Combustion of fuels in installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)	321.07	MW	Carbon Dioxide

**h. Site Diagram**

The table below lists attachments (if available) that provide a simple diagram showing emissions sources source streams sampling points and metering/measurement equipment.

Attachment	Description
Emission Points Drawing.pdf	Emission Points Drawing
Cushaling2013.doc	Flow Diagram

**i. Estimated Annual Emissions**

Detail of the estimated annual emission of CO<sub>2</sub> equivalent. This information enables categorisation of the installation in accordance with Article 19 of the MRR and is based on the average verified annual emissions of the previous trading period data OR if this data is not available or is inappropriate a conservative estimate of annual average emissions including transferred CO<sub>2</sub> excluding CO<sub>2</sub> from biomass.

Estimated Annual Emissions (tonnes CO<sub>2(e)</sub>) 3716

Installation Category: A

**6. Emissions Details**

**j. About your emissions**

Annex I of the Monitoring and Reporting Regulations (MRR) requires that monitoring plans include a description of "the installation" and activities to be carried out and monitored including a list of emission sources and source streams. The information provided in this template relates to the Annex I activity(ies) comprised in the installation in question and should relate to a single installation. It includes any activities carried out by the operator and does not include related activities carried out by other operators.

**k. Emission Sources**

The table below lists all the emission sources at the installation, which may include directly associated activities/excluded activities.

Emission Source Reference	Emission Source Description
S1	Gas Turbine 1 Stack
S2	Gas Turbine 2 Stack
S3	Gas Turbine 3 Stack
S4	Gas Turbine 4 Stack
S5	Auxiliary Generator Stack

The table below lists the emission sources which are linked to the Regulated Activities at the installation.

Emission Source Reference	Emission Source Description
S1	Gas Turbine 1 Stack
S2	Gas Turbine 2 Stack
S3	Gas Turbine 3 Stack
S4	Gas Turbine 4 Stack
S5	Auxiliary Generator Stack

#### I. Emission Points

The table below lists all the emission points at the installation, which may include directly associated activities/excluded activities.

Emission Point Reference	Emission Point Description
A2-1	Gas Turbine Stack 1
A2-2	Gas Turbine Stack 2
A2-3	Gas Turbine Stack 3
A2-4	Gas Turbine Stack 4
A3-1	Auxiliary Generator Stack

#### m. Source Streams (fuels and/or materials)

The table below lists the source streams which are used in Schedule 1 Activities at the installation.

Source Stream Reference	Source Stream Type	Source Stream Description
GO-1	Combustion: Commercial standard fuels	Gas/Diesel Oil

#### n. Emissions Summary

The table below provides a summary of the emission source and source stream details in the installation.

Source streams ( Fuel / Material )	Emission Source Refs.	Emission Point Refs.	Annex 1 Activity
GO-1	S1	A2-1	Combustion of fuels in installations with a total rated thermal input



Source streams ( Fuel / Material )	Emission Source Refs.	Emission Point Refs.	Annex 1 Activity
			exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)
GO-1	S2	A2-2	Combustion of fuels in installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)
GO-1	S3	A2-3	Combustion of fuels in installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)
GO-1	S4	A2-4	Combustion of fuels in installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)
GO-1	S5	A3-1	Combustion of fuels in installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)

**o. Excluded Activities**

Certain activities that result in greenhouse gas emissions may be excluded under the EU ETS Directive for example truly mobile sources such as vehicle emissions.

Do you have any excluded activities which need to be identified in your monitoring plan? No

**7. Low Emissions Eligibility**

**p. Low Emissions Eligibility**

The operator may submit a simplified monitoring plan for an installation where no nitrous oxide activities are carried out and it can be demonstrated that:

(a) the average verified annual emissions of the installation during the previous trading period was less than 25 000 tonnes CO<sub>2(e)</sub> per year or;

(b) where this data is not available or inappropriate a conservative estimate shows that emissions for the next 5 years will be less than 25 000 tonnes CO<sub>2(e)</sub> per year.

Note: the above data shall include transferred CO<sub>2</sub> but exclude CO<sub>2</sub> stemming from biomass.

Does the installation satisfy the criteria for installations with low emissions (as defined by Article 47 of the MRR)? Yes

If the installation is an installation with low emissions as defined above there are a number of special provisions which may be applied to provide a simplified monitoring plan. These provisions are set out in Article 47 of the MRR.

**8. Monitoring Approaches**

**q. Monitoring Approaches**

Emissions may be determined using either a calculation based methodology ("calculation") or measurement based methodology ("measurement") except where the use of a specific methodology is mandatory according to the provisions of the MRR. [MRR Article 21].

Note: the operator may subject to competent authority approval combine measurement and calculation for different sources. The operator is required to ensure and demonstrate that neither gaps nor double counting of reportable emissions occurs.

Please specify whether or not you propose to apply the following monitoring approaches. Select all monitoring approaches that are applicable to you. The consecutive sections will become mandatory based on the selected approaches.

Calculation	Yes
Measurement	No
Fall-back approach	No
Monitoring of N <sub>2</sub> O	No
Monitoring of PFC	No
Monitoring of transferred / inherent CO <sub>2</sub>	No

**9. Calculation**

**r. Approach Description**

The calculation approach including formulae used to determine annual CO<sub>2</sub> emissions:

CO2 emissions will be determined through the recording of Invoiced measured delivered fuel and storage tank stock checks. Fuel deliveries will be recorded - Supplier invoice data will be the primary measurement. Annual stock measurements using tank level measurements will provide an accurate assessment of stocks at the start of the year and at year end. Stock levels will be verified by an external auditor. The Auxiliary Generator will be fuelled from the main fuel tanks, therefore the above measurement methodology will incorporate the auxiliary usage

Activity will be calculated from  $\text{Usage} = \text{Opening Stock} + \text{Deliveries} - \text{Closing Stock}$

CO2 Emissions will be calculated by multiplying the measured activity data by the Country Specific EF Value, similarly, energy will be calculated using the Country Specific NCV value.

### s. Measurement Devices

Below is a description of the specification and location of the measurement systems used for each source stream where emissions are determined by calculation

Also a description of all measurement devices including sub-meters and meters used to deduct non-Annex I activities to be used for each source and source stream.

Source Stream Refs.	Emission Source Refs.	Measurement Device Ref.	Type of Measurement Device	Measurement Range	Metering Range Units	Specified Uncertainty (+/- %)	Location
GO-1	S1,S2,S3,S4,S5	CPL-TL-001	Level gauge	0 - 100	%	2	Gas Oil Fuel Bund
GO-1	S1,S2,S3,S4,S5	CPL-TL-002	Level gauge	0-100	%	2	Fuel Tank Bund
GO-1	S1,S2,S3,S4,S5	CPL-EXT-01	Rotary meter	0 - 2500	Litres Per Minute	0.10	Supplier Loadpoint Metering

Source Stream Refs.	Measurement Device Ref.	Determination Method	Instrument Control Of	Under	Conditions Of Article 29(1) Satisfied	Invoices Used To Determine Amount Of Fuel Or Material	Trade Partner And Operator Independent
GO-1	CPL-TL-001	Batch	Operator		N/A	N/A	N/A
GO-1	CPL-TL-002	Batch	Operator		N/A	N/A	N/A
GO-1	CPL-EXT-01	Batch	Trade partner		Yes	Yes	Yes

### t. Applied Tiers

The table below identifies the tiers applied against the relevant input data for each source stream and confirms whether a standard (MRR Article 24) or mass balance (MRR Article 25) approach is applied.

(i) The highest tiers as defined in Annex II of the MRR should be used by Category B and C installations to determine the activity data and each calculation factor (except the oxidation factor and conversion factor) for each major source stream. Category A installations should apply as a minimum the tiers listed in Annex V.

(ii) Operators may apply a tier one level lower than those referred to in sub paragraph (i) above for Category C installations and up to two levels lower for Category A and B installations with a minimum of tier 1 if the operator can demonstrate to the satisfaction of the competent authority that this is not technically feasible or would lead to unreasonable cost to apply the higher tier. The justification for not applying the higher tier should be recorded when completing the tier table.

(iii) The competent authority may allow an operator to apply even lower tiers than those referred to in the sub paragraph (ii) with a minimum of tier 1 for a transition period of up to three years if the operator can demonstrate to the satisfaction of the competent authority that this is not technically feasible or would lead to unreasonable cost to apply the higher tier and provides an improvement plan detailing how and by when at least the tier referred to in sub paragraph (ii) will be achieved. The improvement plan should be referenced in subsequent table and provided to the competent authority at the time of submission of this plan.

(iv) For minor source streams operators shall apply the highest tier which is technically feasible and will not lead to unreasonable costs with a minimum of tier 1 for activity data and each calculation factor. For de-minimis source streams operators may use conservative estimations rather than tiers unless a defined tier can be achieved without additional effort (MRR Article 26(2)).

(v) Installations with low emissions as identified in section 6(d) may apply as a minimum tier 1 for determining activity data and calculation factors for all source streams unless higher accuracy is achievable without additional effort.

\* Note 1: For commercial standard fuels the minimum tiers listed in Annex V of the MRR may be applied for all activities in all installations.

\* Note 2: If you are intending to apply a fall-back approach please complete the table below and select "n/a" for the tiers to be applied for each source stream where a fall-back approach is used. Section 10 "Fall-back" must also be completed for these source streams.

\* Note 3: For biomass or mixed fuels the emission factor is the preliminary emission factor as defined in Definition 35 Article 3 of the MRR.

Source Stream Refs.	Emission Source Refs.	Measurement Device Refs.	Overall Metering Uncertainty (less than +/- %)	Applied Monitoring Approach	Activity Data Tier Applied	Net Calorific Value Tier Applied	Emission Factor Tier Applied	Carbon Content Tier Applied	Oxidation Factor Tier Applied	Conversion Factor Tier Applied	Biomass Fraction Tier Applied	Estimated Emissions tCO <sub>2(e)</sub>	% of Total Estimated Emissions	Source Category	Highest Tiers Applied	Justification for not applying the highest tiers	Improvement Plan Reference (where applicable)
GO-1	S1,S2,S3,S4,S5	CPL-TL-001,CP L-TL-	<7.5%	Standard	1	2a	2a	N/A	1	N/A	N/A	3716	100	Major	Yes	n/a	n/a

Source Stream Refs.	Emission Source Refs.	Measurement Device Refs.	Overall Metering Uncertainty (less than +/- %)	Applied Monitoring Approach	Activity Data Tier Applied	Net Calorific Value Tier Applied	Emission Factor Tier Applied	Carbon Content Tier Applied	Oxidation Factor Tier Applied	Conversion Factor Tier Applied	Biomass Fraction Tier Applied	Estimated Emissions tCO <sub>2(e)</sub>	% of Total Estimated Emissions	Source Category	Highest Tiers Applied	Justification for not applying the highest tiers	Improvement Plan Reference (where applicable)
		002,CP L-EXT-01															

Total Estimated Emissions for Calculation (tonnes CO<sub>2(e)</sub>)

3716

**u. Applied tiers**

Applied tiers for each source stream

<b>Source Stream Ref.</b>	<b>Emission Source Refs.</b>	<b>Activity Data Tier Applied</b>	<b>Net Calorific Value Tier Applied</b>	<b>Emission Factor Tier Applied</b>	<b>Carbon Content Tier Applied</b>	<b>Oxidation Factor Tier Applied</b>	<b>Conversion Factor Tier Applied</b>	<b>Biomass Fraction Tier Applied</b>
GO-1	S1,S2,S3,S4,S5	1	2a	2a	N/A	1	N/A	N/A

**v. Justification for Applied tiers**

Justifications for the applied tiers for each major source stream where highest tiers are not currently achieved.

<b>Source Stream Ref.</b>	<b>Emission Source Refs.</b>	<b>Justification for the applied tier</b>	<b>Improvement Plan Reference (where applicable)</b>
N/A	N/A	N/A	N/A



## 10. Calculation Factors

### w. Default Values

The table below lists, for each parameter, where default values are to be used for calculation factors.

Source Stream Refs.	Emission Source Refs.	Parameter	Reference Source	Default Value applied (where appropriate)
GO-1	S1,S2,S3,S4,S5	NCV	Ireland's National Greenhouse Gas Inventory	N/A
GO-1	S1,S2,S3,S4,S5	EF	Ireland's National Greenhouse Gas Inventory	N/A
GO-1	S1,S2,S3,S4,S5	OxF	MRR Section 2.3	1

### Sampling and Analysis

Do you undertake sampling and analysis of any of the parameters used in the calculation of your CO<sub>2</sub> emissions? No

## 11. Management

### x. Monitoring and Reporting Responsibilities

Responsibilities for monitoring and reporting emissions from the installation are listed below:

Relevant job titles/posts and provide a succinct summary of their role relevant to monitoring and reporting are listed below.

Job Title / Post	Responsibilities
Environmental Health and Safety Manager	Responsible for ensuring a system is in place for the accurate and verifiable monitoring & reporting of emissions of all appropriate greenhouse gas emissions identified on site.
Automation Engineer	Maintenance and Calibration of Instruments and Measurement devices
Production Controller	Activity Data collection and Supervision of fuel unloading. Reporting on tank levels and activity data generally. Provides supporting quality control comparison data from alternative sources.
Finance and Administration Manager	Administration of Allowances, Primary Account Representative for Registry.
EHS Coordinator	Works in conjunction with the EHS Manager to provide a control check on input data and calculations. Carries out internal audits of the GHG activities.
Operations and Maintenance Manager	Supervision of Operations and Maintenance personnel so as to ensure any activities contributing to activity data collection or maintenance of equipment is completed effectively

Attachment	Description
CPL Organisation Chart.ppt	Organisational Chart

**y. Assignment of Responsibilities**

Details of the procedure used for managing the assignment of responsibilities for monitoring and reporting within the installation and for managing the competencies of responsible personnel in accordance with Article 58(3)(c) of the MRR:

This procedure identifies how the monitoring and reporting responsibilities for the roles identified above are assigned and how training and reviews are undertaken.

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Assignment of Responsibilities, Training and Competence
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The procedure outlines the management of responsibilities and the identification of competencies. Formal job descriptions are documented and based on these descriptions and training needs are identified and addressed. The procedures ensure that the training and development of all employees is carried out in line with the business objectives and that the relevant competencies and performance is achieved and maintained so as to achieve the company's business goals
Post or department responsible for the procedure and for any data generated	EHS Manager
Location where records are kept	Administration Office - Employee Training Records
Name of IT system used	MS Word
List of EN or other standards applied	ISO 9000

**z. Monitoring Plan Appropriateness**

Details of the procedure used for regular evaluation of the monitoring plan's appropriateness covering in particular any potential measures for the improvement of the monitoring methodology:

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Development and Maintenance of Monitoring Plans
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The purpose of this procedure is to ensure the accurate and complete monitoring & reporting of greenhouse gas emissions from the site. The procedure indicates how the agreed Monitoring & Reporting plans are submitted to the Competent Authority are reviewed, also how any potential improvements are identified and implemented. This document outlines the regular review process evaluates the monitoring plan's appropriateness, including potential

measures for improvement, and will be updated as required based on the findings of the internal management review and the annual verification by the Competent Authority.

Post or department responsible for the procedure and for any data generated EHS Manager  
 Location where records are kept EHS Managers Office  
 Name of IT system used MS Word  
 List of EN or other standards applied ISO 9000

**aa. Data Flow Activities**

Details of the procedures used to manage data flow activities in accordance with Article 57 of the MRR:

<p>Title of procedure                  Reference for procedure                  Diagram reference                  Brief description of procedure. The description should cover the essential parameters and operations performed</p>	<p>Monitoring and Reporting of CPL Emissions                  EDE B1 21041 - Data Flow Activities                  N/A                  This procedure describes the mechanics of measurement and monitoring and details the information collected and how that information is manipulated to produce the required data and information for reporting purposes. It includes the identification of any associated measurement, the frequency of the data collection, control measures, spreadsheets used along with any additional data used for calculation.</p>
<p>Post or department responsible for the procedure and for any data generated                  Location where records are kept                  Name of IT system used                  List of EN or other standards applied                  List of primary data sources</p>	<p>EHS Manager                  EHS Manager Office                  Microsoft Office &amp; Excel                  ISO 9000                  Delivery Invoice Documentation, Tank Levels, Annually Verified Stock Levels, Irish National GHG Values and information and factors drawn from the Comission Regulation EU No. 601/2012 (MRR)</p>
<p>Description of the relevant processing steps for each specific data flow activity.</p>	<p>CO2 emissions will be determined through the recording of delivered fuel by invoice and storage tank stock checks at year end. Fuel deliveries documentation will be retained - Supplier invoice data will be the primary measurement with additional verification from site measured values (tank level changes &amp; engine fuel measurements). Annual stock measurements using tank level measurements will provide an accurate assessment of stocks at the start of the year and at year end. Stock levels will be verified and certified by external audit.</p>
<p>Identify each step in the data flow and include the formulas and data used to determine emissions from the primary data. Include details of any relevant electronic data processing and storage systems and other inputs (including manual inputs) and confirm how outputs of data flow activities are recorded</p>	<p>Activity will be calculated from Usage = Opening Stock + Deliveries - Closing Stock</p>

CO2 Emissions will be calculated by multiplying the measured activity data by the Country Specific EF Value, similarly, energy will be calculated using the Country Specific NCV value.

Submit relevant documents to record data flow activities

Attachment	Description
Flow Diagram.doc	Data Flow Diagram for Cushaling Power

**bb. Assessing and Controlling Risks**

Details of the procedures used to assess inherent risks and control risks in accordance with Article 58 of the MRR:

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Assessment and Control of Monitoring and Reporting Risk
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	This section of the procedure documents how inherent risks and control risks are assessed in accordance with the MRR. The procedure indicates how the company assesses the risks associated with this data flow. The document also indicates how appropriate control activities are developed and set up to mitigating any identified monitoring risks and re-assess the risk level. The control measures are documented and also integrated into the data flow diagram.
Post or department responsible for the procedure and for any data generated	EHS Manager
Location where records are kept	EHS Manager Office
Name of IT system used	MS Word
List of EN or other standards applied	ISO 9000

**cc. Quality Assurance of Metering / Measuring Equipment**

Details of the procedures used to ensure quality assurance of measuring equipment in accordance with Article 58 and 59 of the MRR.

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Quality Assurance of Measurement Equipment
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The purpose of the procedure is to ensure that equipment is calibrated at the required intervals and to the required standards.  Also to ensure that equipment operates reliably and to the required accuracy and to confirm that all necessary equipment is calibrated at defined intervals and that calibrations are and can be traced back to a recognised calibration standard or other equivalent value.
Post or department responsible for the procedure and for any data generated	Automation Engineer
Location where records are kept	Automation Office
Name of IT system used	MS Word based physical records
List of EN or other standards applied	ISO 9000

**dd. Quality Assurance of Information Technology used for Data Flow Activities**

Details of the procedures used to ensure quality assurance of information technology used for data flow activities in accordance with Article 58 and 60 of the MRR:

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Control of Related IT Systems
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The procedure describes the Management of the IT Network, and other IT Systems. Specifically addressing security, controlled access, backup and anti-virus controls. The procedure also describes the means of updating software, patching and other activities related to ensuring the reliability of the facilities on site. Specifically relevant to GHG Reporting, the procedure specifies that access to the GHG related documents and included calculations are controlled by password security. Calculation sheets used in reporting are validated against manual calculation. Nightly backups are maintained to ensure security of the data. References are included to site quality system procedure EDE B1 28014 - Maintaining IT Systems
Post or department responsible for the procedure and for any data generated	EHS Manager
Location where records are kept	Server Based Logs
Name of IT system used	MS Excel for records and calculations and related MS Server services.
List of EN or other standards applied	ISO 9000

**ee. Review and Validation of Data**

Details of the procedures used to ensure regular internal reviews and validation of data in accordance with Articles 58 and 62 of the MRR.

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Review and Validation of Data
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The procedure describes how all the relevant monitoring activities are audited as part of accreditation to the ISO 9001 and ISO 14001 documented systems on site. The internal audit schedule includes specifically all aspects of GHG Monitoring and includes formal QC cross checks and comparisons to validate the data provided. This includes historical comparisons, validation against other information sources and ratio based validation against net plant output. The procedure references the quality system site procedures including the Internal Audit Procedure. In addition, this section in so far as it is required for electricity generators will provide for a review of plant operation and capacity and where appropriate will indicate to the relevant authority any required notifications under the MRR.
Post or department responsible for the procedure and for any data generated	EHS manager
Location where records are kept	Site Archive Room, EHS Manager Office
Name of IT system used	MS Word
List of EN or other standards applied	ISO 9000

**ff. Corrections and Corrective Actions**

Details of the procedures used to handle corrections and corrective actions in accordance with Articles 58 and 63 of the MRR:

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Corrective Action
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The listed subsection of the procedure describes the methodology used to ensure that all reporting and measurement non conformances, including errors associated with the verification of green house gas activities, are recorded, the root cause investigated and responsibilities assigned to allow timely action to be taken to correct the issues concerned. The main input to the corrective action system is from internal audit, EPA audits and Annual Verification of the activities. At least two internal audits on monitoring and reporting is carried out annually in addition to two verification visits by an external competent verification body. The procedure references the generic quality system site procedure EDE B1 27001 - Corrective and Preventative Action

Post or department responsible for the procedure and for any data generated	EHS Manager & Finance and Administration Manager
Location where records are kept	Ednderry Power Plant IT Network - Database Application
Name of IT system used	MS Office
List of EN or other standards applied	ISO 9000

**gg. Control of Outsourced Activities**

Details of the procedures used to control outsourced processes in accordance with Articles 59 and 64 of the MRR.

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Control of Outsourced Activities and Services
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	To ensure, so far as is reasonably practicable that measurements or other reporting related services by contractors have defined quality or accuracy requirements and that the work product is checked against these standards so as to ensure the integrity of the final report. The procedure also indicates how any outsourced services must also be risk assessed in the same manner as in house monitoring and is subject to the same level of control.

Post or department responsible for the procedure and for any data generated	EHS Manager
Location where records are kept	EHS Manager Office
Name of IT system used	MS Word and Excel
List of EN or other standards applied	ISO 9000

**hh. Record Keeping and Documentation**

Details of the procedures used to manage record keeping and documentation:

Title of procedure	Monitoring and Reporting of CPL Emissions
Reference for procedure	EDE B1 21041 - Document and Data Control
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	This site procedure documents the data retention policies of the company and ensures that operational data and records are available to all employees and other relevant bodies. The procedure documents how records are controlled, secured and accessed as required. Specifically in relation to Green House Gas records as listed in Annex IX of the MRR, these records are maintained as part of Financial Accounts (Invoices) both in the form of paper hard copies and also electronically on the Accounts Software. Activity



data is available from the unit SCADA system but is extracted and similiarly retained both on paper and electronically using a standard Microsoft Excel spreadsheet. Referenced IT procedures allow for the backup and protection of this electronic data. Supporting records (calibration, reviews, product specifications, etc ) are typically scanned and retained both as hard copy and in electronic format (pdf).

Information is typically sorted and stored by operational year.

Post or department responsible for the procedure and for any data generated

Finance and Administration Manager

Location where records are kept

IT Network, Physical archive

Name of IT system used

Microsoft Office Sage Accounting and associated IT Systems

List of EN or other standards applied

ISO 9000

**ii. Risk Assessment**

The results of a risk assessment that demonstrates that the control activities and procedures are commensurate with the risks identified:

Attachment	Description
N/A	N/A

**jj. Environmental Management System**

Does your organisation have a documented Environmental Management System? Yes

Is the Environmental Management System certified by an accredited organisation? Yes

The standard to which the Environmental Management System is certified: ISO 14001

**12. Changes in Operation**

## kk. Changes in Operation

Article 24(1) of Commission Decision 2011/278/EC requires that Member States must ensure that all relevant information about any planned or effective changes to the capacity activity level and operation of an installation is submitted by the operator to the competent authority by 31 December each year. Article 12(3) of the MRR further provides that Member States may require information to be included in the monitoring plan of an installation for the purposes of meeting these requirements.

Details of the procedure used to ensure regular reviews are carried out to identify any planned or effective changes to the capacity activity level and operation of the installation that have an impact on the installation's allocation:

The procedure specified below cover the following:

- planning and carrying out regular checks to determine whether any planned or effective changes to the capacity activity level and operation of an installation are relevant under Commission Decision 2011/278/EC; and
- Procedures to ensure such information is submitted to the competent authority by 31 December of each year.

Title of procedure	Not Applicable
Reference for procedure	Not Applicable
Diagram reference	Not Applicable
Brief description of procedure. The description should cover the essential parameters and operations performed	Not Applicable
Post or department responsible for the procedure and for any data generated	Not Applicable
Location where records are kept	Not Applicable
Name of IT system used	Not Applicable

## 13. Abbreviations

### II. Abbreviations Acronyms or definitions

Abbreviations acronyms or definitions that have been used in this monitoring plan:

Abbreviation	Definition
CPL	Cushaling Power Limited
KKS	Kraftwerk-Kennzeichen-System - a standardised identification and naming system for equipment and process items typically used within power plants

## 14. Additional Information

Any other information:

Attachment	Description
Additional Notes.doc	Additional Notes
Suttons Limited - Certificate of Incorporation - 04.10.12.pdf	Suttons Oil Limited - Cert of Incorporation
JFT Meter Certs 2012.pdf	Supplier National Metrology Certificates
Tank Calibrations.pdf	Peaker Level Tank Calibrations
800KVA SB - lehe2377.pdf	Auxiliary Generator Specification Sheet

## 15. Confidentiality

### mm. Confidentiality Statement

It is the Environmental Protection Agency's policy to make information received by it in the course of its work open to inspection by any person on request. This is in accordance with the provisions of the European Communities (Access to Information on the Environment) Regulations 2007 to 2011.

In the event that you considered that some of the information being submitted of a confidential nature, then the nature of this information and the reasons why it should be considered confidential, with reference to the European Communities (Access to Information on the Environment) Regulations 2007 to 2011 and any amendments must be explicitly requested using the facility below. The Board of the Environmental Protection Agency will consider the requests and if the information can be deemed as confidential and necessary.

Notwithstanding any request for confidentiality, the Environmental Protection Agency explicitly reserves the right to release data to the Commission, including emissions and allocations to the public, on the basis that the data will be used for the purposes foreseen in Directive 2003/87/EC of the European Parliament and of the Council of 13 October 2003 establishing a scheme for greenhouse gas emission allowance trading within the Community and amending Council Directive 96/61/EC.

Please tick this box if you consider that any part of your form should be treated as commercially confidential/sensitive:  false

**END of Appendix I.**