



Headquarters,
Johnstown Castle Estate,
County Wexford, Ireland

GREENHOUSE GAS EMISSIONS PERMIT

Permit Register Number: IE-GHG123-10405-2

Operator: College Proteins
College Road
Nobber
Meath

Installation Name: College Proteins

Site Name: College Proteins

Location: College Road
Nobber
Meath
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^o IE-GHG123-10405.

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

Email: help.ets@epa.ie

By Post: Climate Change Unit, Environmental Protection Agency
P.O. Box 3000, Johnstown Castle Estate,
Co. Wexford

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 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):

IPC/IE Licence Register Number
P0037-03

Status Log

Current Permit

Permit number	Date application received	Date Permit issued	Comment
IE-GHG123-10405-2	16 December 2014	25 February 2015	<p>1. Inclusion of propane (F7), as new emission source stream and removal of Liquefied Petroleum Gas (F5).</p> <p>2. Improvement to the management procedures following recommendation from the AEM Report.</p> <p>3. Replacement of minor emission sources; S6 & S5 natural gas Vokera boilers and addition of cutting equipment.</p>

Previous Permits

Permit number	Change Type	Date application received	Date Permit issued	Comment
IE-GHG123-10405-1	GHG Permit Application	23 December 2013	03 February 2014	

End of Introductory Note

Glossary of Terms

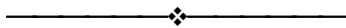
For the purposes of this permit the terms listed in the left hand column shall have the meaning given in the right hand column below:

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)	College Proteins
“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.



Activities Permitted

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

The Operator:

College Proteins
College Road
Nobber
Meath

Company Registration Number: 136971

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)
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at the following installation(s):

College Proteins **Installation number:** 88

located at

College Road
Nobber
Meath
Ireland

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

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.: 88

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
(S10) Wastewater Treatment

- 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	Boiler B1	11.2	MW
S2	Boiler B3	11.2	MW
S3	Thermal Oxidiser (TEAP) 1	15.23	MW
S4	Thermal Oxidiser (TEAP) 2	15.23	MW
S5	Main Office Heating Boiler (B4)	0.1	MW
S6	Boiler Transport Office (B6)	0.03	MW
S7	Workshop (Engineering) Heater 1	0.04	MW

Emission Source Reference	Emission Source Description	Capacity	Capacity Units
S8	Workshop Heater 2	0.04	MW
S11	Workshop Propane Cutters (Various)	0	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.
- 2.8 The Operator shall submit to the Agency by 31 December of each year all relevant information about any planned or effective changes to the capacity, activity level and operation of an installation. The information submitted shall be in the format required by the Agency.

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.
- 3.13 A record of independent confirmation of capacities listed in this permit 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.

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. 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 25 February 2015:

PRESENT when the seal of the Agency was affixed hereto:

Ms. Annette Prendergast
Inspector/ Authorised Person

Appendix 1 to Greenhouse Gas Emissions Permit Number IE-GHG123-10405

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

(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

Monitoring and Reporting in the EU ETS: 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

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.

Installation name	College Proteins
Site name	College Proteins
Address	College Road Nobber Meath Ireland

Grid reference of site main entrance	E282159, N289177
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Licence held pursuant to the Environmental Protection Agency Act 1992, as amended.	Yes
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IPC/IE Licence Register Number	Licence holder	Competent body
P0037-03	College Proteins	Environmental Protection Agency

Has the regulated activity commenced at the Installation? Yes

Date of Regulated Activity commencement	01 January 2008
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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	College Proteins
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Company Registration Number	136971
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Operator Legal status

The legal status of the operator is:	Company / Corporate Body
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(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	Mrs
Forename	Margaret
Surname	Kieran
Position	Accounts Manager

Registered office address

Address Line 1	College Road
Address Line 2	N/A
City/Town	Nobber
County	Meath
Postcode	N/A

Principal office address

Is the principal office address different to the registered office address? No

Holding company

Does the company belong to a holding company? 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 | Yes |

end of a reporting period allowances can be balanced against reported emissions.

4. Service Contact

e. Service Contact

Name	Ms Lisa Clarke
Address / Email Address	College Road Nobber Meath

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.

The installation and its activities:

College Proteins is a Category 1 Rending Plant located in the town land of College, Nobber, Co. Meath. The Plant consists of a raw material building, production building, storage silos, biofilters, office buildings, laboratory, maintenance workshops and an onsite effluent treatment plant. The raw materials used are Category 1 materials. The finished products are Category 1 Meat & Bone Meal (MBM) and Tallow. These products may be used as renewable fuel sources.

Boilers: There are 2 steam boilers (11.2 MW each) on site which generate the steam for the process along with the 2 thermal oxidiser waste heat boilers (15.23 MW each).

Office & workshop heating: Natural gas has being connected on site since 2013, and is used on the 2 steam boilers in the factory. The 2 kerosene office boilers were converted to natural gas since summer 2014. The old kerosene boilers where replaced with gas fired bolilers, S6 is now a (30 Kw) Vokera Boiler and S5 is now a Vokera Boiler but is still (100 Kw). The 2 LPG workshop heaters were converted to LPG, Jan 2015. The Thermal oxidiser is due to be converted to natural gas in Spring 2015. The thermal oxidiser and 2 factory steam boilers have still got multi fuel function and can still burn HFO & Tallow and natural gas.

Propane gas Bottles: These are used for igniting the steam boilers & thermal oxidisers and are also used in the Maintenance and Engineering workshop on cutting equipment.

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)	53.07	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
College Proteins Site Map.pdf	College Proteins Site Map 2015

i. Estimated Annual Emissions

Detail of the estimated annual emission of CO₂ 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 CO₂ excluding CO₂ from biomass.

Estimated Annual Emissions (tonnes CO _{2(e)})	4200
Justification for the use of a conservative estimate of CO ₂ emissions.	The fuel usage to date was calculated and then estimated for the rest of the year then the carbon emissions were calculated based on this figure.

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	Boiler B1
S3	Thermal Oxidiser (TEAP) 1
S5	Main Office Heating Boiler (B4)
S6	Boiler Transport Office (B6)
S7	Workshop (Engineering) Heater 1
S8	Workshop Heater 2
S2	Boiler B3
S4	Thermal Oxidiser (TEAP) 2
S10	Wastewater Treatment
S11	Workshop Propane Cutters (Various)

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

Emission Source Reference	Emission Source Description
S1	Boiler B1
S2	Boiler B3
S3	Thermal Oxidiser (TEAP) 1
S4	Thermal Oxidiser (TEAP) 2
S5	Main Office Heating Boiler (B4)
S6	Boiler Transport Office (B6)
S7	Workshop (Engineering) Heater 1
S8	Workshop Heater 2
S11	Workshop Propane Cutters (Various)

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
E4	Main Office Heating Boiler Flue (B4)
E5	Boiler Transport Office (B6) Flue
E6	Workshop (Engineering) Heater 1 Flue
E7	Workshop Heater 2 Flue
E1	Boilers B1 & B3 Stack
E3	Thermal Oxidisers (TEAP) 1 & 2 Stack
E10	Wastewater Treatment
E11	Workshop Propane Cutters

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
F1	Combustion: Other gaseous & liquid fuels	Heavy fuel Oil
F4	Combustion: Commercial standard fuels	Kerosene (other than jet kerosene)
F3	Combustion: Other gaseous & liquid fuels	Bio Heating Oil
F2	Combustion: Other gaseous & liquid fuels	Tallow
F6	Combustion: Other gaseous & liquid fuels	Natural Gas
F7	Combustion: Other gaseous & liquid fuels	Propane Gas bottles

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
F1	S1,S3,S2,S4	E1,E3	Combustion of fuels in

Source streams (Fuel / Material)	Emission Source Refs.	Emission Point Refs.	Annex 1 Activity
			installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste)
F2	S1,S2,S3,S4	E1,E3	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)
F3	S1,S2,S3,S4	E1,E3	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)
F4	S5,S6	E4,E5	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)
F6	S1,S2,S3,S4,S5,S6,S7,S8	E4,E5,E6,E7,E1,E3	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)
F7	S1,S11,S2,S3,S4	E1,E11,E3	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? Yes

Detail of these activities:

Source Stream Refs	Emission Source Ref	Emission Point Ref
F6	S10	E10

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_{2(e)} 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_{2(e)} per year.

Note: the above data shall include transferred CO₂ but exclude CO₂ 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 ₂ O	No
Monitoring of PFC	No
Monitoring of transferred / inherent CO ₂	No

9. Calculation

r. Approach Description

The calculation approach including formulae used to determine annual CO₂ emissions:

College Proteins is a low emissions installation as defined in Article 47 of the MMR Guidelines.

The fossil fuels used on site are HFO, kerosene, propane gas bottles and natural gas. College Proteins installed a natural gas line to site in the second half of 2013. Natural gas is used on the 2 steam boilers in the factory. The 2 kerosene office boilers have been converted to natural gas since summer 2014. The old kerosene boilers were replaced with gas fired boilers, S6 is now a (30 Kw) Vokera boiler and S5 is now a Vokera boiler, but is still (100 Kw). The 2 LPG workshop heaters (80 Kw) were converted to LPG in Jan 2015. The Thermal oxidiser is due to be converted to natural gas also in the Spring 2015. The thermal oxidiser (30.46 MW) and 2 factory steam boilers (22.40 MW) have multi fuel function and can still burn HFO & tallow as well as natural gas.

Natural Gas: Natural gas is the main fuel on site now and is metered as it enters the site by a turbine gas meter (G650). Monthly consumption is based on gas invoices received from the supplier. The consumption is determined using Invoiced purchases (Tier 4*). Emissions are determined by Activity Data * emission factor * oxidation factor = tCO₂.

The net calorific values and emission factors for each fuel is taken as published by the EPA each year as appropriate or from the gas bill as set out in the EPA guidance. Each calendar year College Proteins will request from all its fuel suppliers confirmation of the calibration and maintenance of the meters used in invoicing the installation.

HFO: HFO can be burned in our main steam boilers and thermal oxidisers. HFO consumption is determined using a mass balance approach: Opening stock + invoiced purchases - closing stock (Tier 4*). The stock taking for HFO is on a weekly basis based on the number of panels in the HFO tank. This is dipped for the purpose of year end reconciliation. The dip is a rope with a weight on the end of it and is measured with a measuring tape outside the tank. The stock is verified by our auditors OSK. Emissions are determined by Activity Data * emission factor * oxidation factor = tCO₂.

Kerosene: Kerosene was used on site to provide heating for the main office areas in 2013 and some of 2014, however we are currently using natural gas on these now. Kerosene consumption is determined using a mass balance approach. Opening stock + invoiced purchases - closing stock (Tier 1*). Consumption in volume is converted to mass using a density factor. Emissions are determined by Activity Data * emission factor * oxidation factor = tCO₂.

Propane gas bottles: Propane gas is used as an ignition fuel for the steam boilers and thermal oxidisers and is also used on the cutting equipment by the engineering department. Propane gas bottle consumption is determined using a purchase record approach. Invoiced purchases are added up for the year from the 1st January to the 31st December. (Tier 1*). Emissions are determined by Activity Data * emission factor * oxidation factor = tCO₂.

Tallow: Tallow is one of the main fuels used on site in the main steam boilers and thermal oxidisers. Tallow is classified as CO₂ neutral biomass fuel under Article 38 of the MMR and therefore has an emission factor of zero. Nonetheless, consumption is monitored using a mass balance approach. The usage on site is determined by sending batch loads through Tank 5 to the tallow fuel tank. The tallow is weighed in the batch tank by the load cells on the tank and this figure is recorded in the KPI system. Tallow is also tested regularly for NCV as part of the installation's good manufacturing practice for quality purposes. College Proteins has engaged SGS Germany for certification of Tallow as a sustainable biomass. If and when Tallow is used on site it will be sampled and analysed 4 times a year by the supplier to determine the emission factor and NCV based on carbon analysis. Emissions are determined by Activity Data * emission factor * oxidation factor = tCO₂.

BHO: Bio heating oil is used also as a de minimis novel fuel. Opening stock + invoiced purchases- closing stock (Tier 1*). The stock taking for BHO is on a weekly basis is based on the number of panels in the BHO tank. This is dipped for the purpose of year end reconciliation. The dip is a rope with a weight on the end of it and is measured with a measuring tape outside the tank. The stock is verified by our auditors OSK. Emissions are determined by Activity Data * emission factor * oxidation factor = tCO₂.

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
F1,F4,F3,F7	S1,S11,S2,S3,S4,S5,S6,S7,S8	Invoices	Weighbridge	0-50,000 kg	Kg	0.04	Suppliers Weighbridge
F2	S1,S2,S3,S4	168622	Loadcells	0-20,000 kg	Kg	1	Under tanks in the yard
F6	S1,S3,S5,S6,S7,S8,S2,S4	G650 BGE Meter 00000813T	Turbine meter	0.6 - 650	Nm3/hr	1.41	BGE Compound

Source Stream Refs.	Measurement Device Ref.	Determination Method	Instrument Under Control Of	Conditions Of Article 29(1) Satisfied	Invoices Used To Determine Amount Of Fuel Or Material	Trade Partner And Operator Independent
F1,F4,F3,F7	Invoices	Batch	Trade partner	Yes	Yes	Yes
F2	168622	Continual	Operator	N/A	N/A	N/A
F6	G650 BGE Meter 00000813T	Continual	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 _{2(e)}	% of Total Estimated Emissions	Source Category	Highest Tiers Applied	Justification for not applying the highest tiers	Improvement Plan Reference (where applicable)
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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 _{2(e)}	% of Total Estimated Emissions	Source Category	Highest Tiers Applied	Justification for not applying the highest tiers	Improvement Plan Reference (where applicable)
F1	S1,S3,S2,S4	Invoices	<1.5%	Standard	4	2a	2a	N/A	1	N/A	N/A	3940	79.62	Major	Yes	n/a	n/a
F2	S1,S2,S3,S4	168622	<1.5%	Standard	4	3	3	N/A	1	N/A	N/A	0	0	De-minimis	Yes	n/a	n/a
F3	S1,S2,S3,S4	Invoices	<1.5%	Standard	1	No tier	1	N/A	1	N/A	N/A	0	0	De-minimis	Yes	n/a	n/a
F4	S5,S6	Invoices	<1.5%	Standard	1	2a	2a	N/A	1	N/A	N/A	6.4	0.13	De-minimis	Yes	n/a	n/a
F6	S1,S3,S5,S6,S7,S8,S2,S4	G650 BGE Meter 00000813T	<1.5%	Standard	4	2b	2a	N/A	1	N/A	N/A	1000	20.21	Major	Yes	n/a	n/a
F7	S1,S11,S2,S3,S4	Invoices	<1.5%	Standard	1	2a	2a	N/A	1	N/A	N/A	2	0.04	De-minimis	Yes	n/a	n/a

Total Estimated Emissions for Calculation (tonnes CO_{2(e)})

4948.4

u. Applied tiers

Applied tiers for each source stream

Source Stream Ref.	Emission Source Refs.	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
F1	S1,S3,S2,S4	4	2a	2a	N/A	1	N/A	N/A
F2	S1,S2,S3,S4	4	3	3	N/A	1	N/A	N/A
F3	S1,S2,S3,S4	1	No tier	1	N/A	1	N/A	N/A
F4	S5,S6	1	2a	2a	N/A	1	N/A	N/A
F6	S1,S3,S5,S6,S7,S8,S2,S4	4	2b	2a	N/A	1	N/A	N/A
F7	S1,S11,S2,S3,S4	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.

Source Stream Ref.	Emission Source Refs.	Justification for the applied tier	Improvement Plan Reference (where applicable)
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)
F1	S1,S3,S2,S4	NCV, EF & OxF	Ireland's National Greenhouse Gas Inventory & EPA website.	n/a
F2	S1,S3,S2,S4	OxF	Ireland's National Greenhouse Gas Inventory & EPA website.	n/a
F3	S1,S3,S2,S4	OxF	Ireland's National Greenhouse Gas Inventory & EPA website.	n/a
F4	S5,S6	NCV, EF & OxF	Ireland's National Greenhouse Gas Inventory & EPA website.	n/a
F6	S1,S3,S5,S6,S7,S8,S2,S4	EF & OxF	Ireland's National Greenhouse Gas Inventory & EPA website.	n/a
F7	S1,S11,S2,S3,S4	NCV, EF & OxF	Ireland's National Greenhouse Gas Inventory & EPA website.	n/a

Sampling and Analysis

Do you undertake sampling and analysis of any of the parameters used in the calculation of your CO₂ emissions? Yes

x. Analysis

The table below lists, for each source stream, where calculation factors are to be determined by analysis.

Source Stream Refs.	Emission Source Refs.	Parameter	Method of Analysis	Frequency	Laboratory Name	Laboratory ISO17025 Accredited	Evidence Reference
F2	S1,S2,S3,S4	NCV & Carbon Analysis	Oxygen Bomb Combustion	Annual	Eurofins Environment Sweden AB (Lidköping	Yes	n/a

Detail about the written procedures for the above analysis.

Where a number of procedures are used details of an overarching procedure which covers the quality assurance of analyses methods and links together individual analytical methods is listed.

Title of procedure	Determination of calorific value of fuels (Oxygen Bomb Calorimetry)
Reference for procedure	ME 2121-1
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The procedure is carried out in accordance with EN14918/15400/ISO1928. The bomb calorimeter is a classic device used to determine the heating or calorific value of solid and liquid fuel samples at constant volume. Basically, this device burns a fuel sample and transfers the heat into a known mass of water. From the weight of the fuel sample and temperature rise of the water, the calorific value can be calculated. The calorific value obtained in a bomb calorimeter test represents the gross heat of combustion per unit mass of fuel sample. This is the heat produced when the sample burns, plus the heat given up when the newly formed water vapour condenses and cools to the temperature of the bomb.
Post or department responsible for the procedure and for any data generated	DAR Laboratory
Location where records are kept	DAR Laboratory
Name of IT system used	N/A
List of EN or other standards applied	EN14918/15400/ISO1928

y. Sampling Plan

Details about the procedure covering the sampling plan for the analysis table above.

The procedure below covers the elements of a sampling plan as required by Article 33 of the MRR. Where a number of procedures are used, details of an overarching procedure which covers the sampling methods and links together individual sampling methods are listed.

Attachment	Description
SOP for sampling of Tallow[1].doc	Updated SOP for Sampling of Tallow (Frequency noted as Quarterly)

Title of procedure	Sampling of tallow for CV analysis
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	1. Take a 500 ml plastic container. 2. For 1 week daily samples of 100 ml should be taken, from the fuel line ring main.

3. Before the sample is taken 3-4 litres is let drain out into a bucket. The sample is then taken in a clean glass container.

4. 100 ml of the sample is measured out in the lab using a graduated cylinder and added to the 500 ml plastic container.

5. After the 5 days of samples are taken, the sample container is then sealed and put in a box with packing and transported by car to Eurofins Laboratories in Dundalk, Co. Louth.

6. Eurofins do not carry out the Calorific Value analysis themselves, they send it to their sister lab DAR in Hamburg Germany.

Frequency of Sampling:

4 samples should be taken every year and sent for calorific value analysis.

Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2003
List of EN or other standards applied	ISO 14,0001

z. Sampling Plan Appropriateness

The procedure to be used to revise the appropriateness of the sampling plan.

Title of procedure	Sampling Plan Appropriateness
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	<p>1. The container: The container used is a 500 ml plastic container. This size of container is used as it is the required volume of sample.</p> <p>2. Frequency of sampling: The sampling is done daily to ensure a representative sample over a week.</p> <p>3. Sampling Point: The point of sampling id from the ring main this is the best place for sampling as it is what is circulating in the lines feeding the boilers & TEAP units.</p> <p>4. Sampling method: 3-4 litres of Tallow are allowed to flow into a bucket before the sample is taken this is to ensure that no old tallow residue is trapped in the valve line before</p>

sampling.

Frequency of Sampling:

4 samples should be taken every year and sent for calorific value analysis.

This sample plan will be reviewed each year and the results presented at the management review for sign off by senior management.

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

Location where records are kept

Laboratory

Name of IT system used

Windows server 2003

List of EN or other standards applied

ISO 14,0001

Are stock estimates carried out as part of the emission calculations? Yes

aa. Year-end reconciliations

The procedure to be used to estimate stocks at the beginning/end of a reporting period where applicable. This should include any source streams monitored using batch metering e.g. where invoices are used.

Title of procedure

Proceedure for Estimating Fuel Stocks

Reference for procedure

CP GHG 01 (Revision No. 5)

Diagram reference

N/A

Brief description of procedure.

1. A stock take of the fuel storage tanks is carried out in early January each year.

2. An independent witness (our auditor) is present for this to verify the stock quantities.

3. A record of this stock take is retained on file and can be verified by our auditors.

4. There is an Independent Audit carried out in early January each year to verify fuel stocks.

5. The stocks are checked by dipping the tanks.

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

Location where records are kept

Laboratory

Name of IT system used

Windows server 2003

List of EN or other standards applied

ISO 14,0001

bb. Tracking Instruments

The procedure used to keep track of instruments installed in the installation used for determining activity data.

Title of procedure	Procedure for instrument Calibration
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure.	The Precia Molen weigh bridge 14F705847 to the side of the Transport Office is used to weigh all fuel entering and leaving the site. This weighbridge is calibrated annually (February of each year.) The load cells to the Tallow fuel oil tank T680 are also calibrated annually also in February of each year.
Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2003
List of EN or other standards applied	ISO 14,0001

11. Management

cc. 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 Technical Project Manager	Implementing Green House Gas Procedures Traning staff on monitoring & recording Getting machines & monitoring equipment maintained & calibrated e.g. boilers & weighbridge Assisting the financial Manager in calculating the overall fuel usage & carbon emissions. Ensuring that the information and documentation is in place for the verifiers Getting the fuel analysed and checked and getting certs of the fuel suppliers.
Financial Manager	Keeping records of all the fuel invoices. Recording all the weekly fuel usage figures in the KPI document Calculating the annual fuel usage & Carbon emissions.

Attachment	Description
Organisational Chart.pdf	2014 organisational Chart

dd. 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	Procedure for Assignment of responsibilities
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	Identification of Responsibilities so as to manage 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.
	The GHG monitoring and reporting responsibilities are identified as follows:
	1. Fuel Quantities incoming and used need to be recorded and monitored.
	2. Annual stock takes of the storage tanks needs to be done at the beginning of each year.
	3. Record keeping of all invoices and delivery dockets for all fuel coming on site to be kept.
	4. Cross checking the weights on the delivery dockets with our own weighbridge needs to be done.
	5. Get the boilers & Thermal Oxidisers checked and calibrated on a regular basis to ensure fuel efficiency.
	6. Weighbridge and load cells need to be checked & calibrated annually.
	7. Calculation of annual emissions needs to be done
	8. Training on Procedures needs to be carried out.
	Assignment of Responsibilities
	The responsibilities are assigned to the most relevant

people to the task. For example the person whose work relates to the task most i.e. Financial director has all the fuel usage reports & invoices available to him so he keeps records of these.

Training on Responsibilities:

All employees are fully briefed on the Standard Operating Procedure for all their duties. All records of training and briefs carried out on site are the responsibility of Ilona Nowicka (Lean Specialist/ H&S Coordinator) and Ramona Rozlapa (Human Resource manager).

Reviews: All procedures are reviewed annually or if any major changes are made.

Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008
List of EN or other standards applied	ISO 14,001

ee. 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	Procedure for Monitoring Plan Appropriateness.
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	<p>Appropriateness in terms of changes:</p> <p>Consideration must be given to changes in the process in terms of throughput, technology and process methods as this could all have an effect on the emissions produced by the factory.</p> <p>If any drastic changes are introduced e.g. new fuel type they must be considered and monitored as part of the GHG work. For example if a new fuel type was introduced the fuel record sheets must be updated to incorporate this into the system.</p> <p>Assessing compliance with the uncertainty thresholds:</p> <p>The emissions for the site must be estimated at the end of each year if the site is falling into the low emissions category (<25,000 t CO₂/annum) then the lower tier</p>

methodology can be used. However if the site falls into the high emissions category then the higher tier methodology must be used as described in the, The Monitoring and Reporting Regulation – General guidance for installations, MRR Guidance document No. 1, Version of 16 July 2012

Assessment for improvement of monitoring methodology:

The procedures are reviewed annually for changes and improvements that can be made. The method of monitoring is run by the management of the company to see if they are happy to continue with the monitoring process as it is or if they can suggest new and improved methods for monitoring.

Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008
List of EN or other standards applied	ISO 14,001

ff. Data Flow Activities

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

Title of procedure	Procedure for Data Flow activities
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	Environmental Management System: Fig 1
Brief description of procedure. The description should cover the essential parameters and operations performed	<p>(a) identification of the primary data sources;</p> <p>(b) each step in the data flow from primary data to annual emissions data which shall reflect the sequence and interaction between the data flow activities;</p> <p>(c) the relevant processing steps related to each specific data flow activity including the formulas and data used to determine the emissions.</p> <p>(d) relevant electronic data processing and storage systems used as well as the interaction between such systems and other inputs including manual input;</p> <p>(e) the way outputs of data flow activities are recorded.</p> <p>so as to manage data flow activities in accordance with Article 57 of the MRR.</p>

Please see procedure attached for risk matrix.

Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008
List of EN or other standards applied	ISO 14,001
List of primary data sources	All primary data sources are identified as per our Monitoring and reporting plan.

These include the following:

- Calibration records & Certification
- Fuel usage records on the Weekly KPI (Key process Indicator's) of Tallow, Heavy Fuel Oil, Kerosene, Bio Heating Oil (BHO) and natural gas.
- Fuel usage trends are reviewed at the management meetings.
- Annual reporting of the fuel usage & CO2 emissions.
- Verification of the emissions by SGS the verifiers.

Description of the relevant processing steps for each specific data flow activity.

Sequence and interaction between data flow activities:

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

A monitoring procedure is set up for all greenhouse gas emissions. This will be recorded and reported as part of the AIER and the AER. Relevant processing steps related to each specific data flow activity including the formulas and data used to determine the emissions

Methods of Calculations:

$\text{CO}_2 \text{ Emissions (tonnes)} = \text{Activity Data} * \text{Emission Factor} * \text{Oxidation Factor}$

Certificates of Analysis for all fuels used on site are kept on the GHG Emissions file in the Laboratory.

Methods of calculations/measurements used:

A meter (matrix below) will be used as a way of presenting and updating meter data. This will show the location, manufacturer, type, model number, serial number, calibration status etc of all meters used on site relevant to

GHG reporting.

The Precia Molen weigh bridge 14F705847 to the side of the Transport Office is used to weigh all fuel entering and leaving the site. This weighbridge is calibrated annually (February of each year.)

The load cells to the Tallow fuel oil tank T680 are also calibrated annually also in February of each year.

Relevant electronic data processing and storage systems used as well as the interaction between such systems and other inputs including manual input

Reporting and records:

All fuel quantities are recorded at intake and their usage recorded on a weekly basis, recording opening and closing stocks for which will have current density conversation factors. All delivery dockets will be checked and verified for authenticity and approval and matched with relevant invoices. Fuel Delivery Invoices will be kept in the Accounts Department.

A stock take of the fuel storage tanks is carried out in early January each year. An independent witness (our auditor) is present for this to verify the stock quantities. A record of this stock take is retained on file and can be verified by our auditors. There is an Independent Audit carried out on the 31st January each year to verify fuel stocks. All fuel delivered from Sean McEntee Oils is weighed in to verify stocks.

BHO delivered to site is weighed, and subsequently mixed with tallow in Tank 1 and burned in the Boilers/Thermal Oxidisers.

Fuel analysis certificates for BHO are kept on file at the Lab.

The way outputs of data flow activities are recorded:
Records and Documentation:

Records of all Calibrations are kept on file (Calibration Records and Certification) Records of Fuel usage are kept on file (Weekly KPI Report).

The total fuel usage is reviewed (for unusual trends) weekly at the Management Meeting. Fuel Usage is also reviewed annually. Annual reporting and calculation of CO₂ Emissions and report are verified by the approved verifier

and recorded as the AIER.

Responsibility Financial Manager (David Devine): All spreadsheets are also stored on computer. The computer system is backed up each night. We have more than adequate storage for all documentation involved. Details of all Environmental Records kept are shown on the environmental Record List EC 21. Environmental Records are retained for a minimum of 10 years. College Proteins can make available at any time relevant records for evaluation by the public or other interested parties. All Environmental related documents not on the Environmental Record list shall be retained for a sufficient time to provide evidence that the documented environmental system is being followed.

Step 1: Natural Gas Invoice Issued to College

Step 2: Gas Meter (G650) is read on a monthly basis

Step 3: Input gas meter (G650) reading into Emissions File

Step 4: Compare the Gas Invoice with the Natural Gas

Meter Reading. If these do not match, initiate the non conformance procedure. If they do match, proceed to Step 5.

Step 5: File Invoice with Accounts records

Step 6: File Copy of invoice in Emissions File

Step 7: Calculate CO2 Emissions using the following

calculation $Em = AD \times EF \times OF$, where Em = Emissions tCO₂, AD = Activity Data TJ, EF = Emissions Factor tCO₂/TJ, OF = Oxidation Factor. EF and OF figures are obtained from the website.

AD is calculated using the formula, $AD = \text{kWhr (from Gas Bill)} \times \text{EPA conversion factor} \times (3.6 \times 10^{-6})$

Submit relevant documents to record data flow activities

Attachment	Description
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Attachment	Description
College Proteins Preliminary CO2 2012.xls	College Proteins fuel records & Carbon calculations

gg. 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	Procedure for assessing & controlling risks
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	<p>College Proteins maintain a procedure for identifying training needs in relation to all personnel whose work may create a significant impact or risk to the correct monitoring & reporting of the green house gas emissions. The company training policy is to ensure that all employees are suitably trained to enable them to carry out their assigned duties in an efficient, safe and environmentally responsible manner so as to assess inherent risks and control risks in accordance with Article 58 of the MRR.</p> <p>College Proteins carry out all the necessary training to ensure that employees are aware of all environmental aspects and the risks to the environment. We train our staff to ensure that they understand the importance of conforming with our IPPC license and to the requirements of our Environmental Management system. We insure that the staff understand that the correct operation of all equipment which is vital to ensuring that the fuel is used efficiently and recorded correctly.</p> <p>We have established and will maintain training procedures for each operation relevant to the environment and will maintain records of all training given.</p> <p>All delivery dockets will be checked and verified for authenticity and approval and matched with relevant invoices. Fuel Delivery Invoices will be kept in the Accounts Department and are cross checked with the weights of the fuel tankers coming in to site.</p> <p>The Precia Molen weigh bridge 14F705847 to the side of the Transport Office is used to weigh all fuel entering and leaving the site.</p> <p>This weighbridge is calibrated annually (February of each year.)</p>

Assessing & Controlling IT risks:

We use windows server 2003. We keep the server in key locked room and the server is backed up daily on a tape. We have a Nord 32 antivirus system and firewall on all the PC's. The KPI system for the fuel usage and carbon emissions recording and calculations has a password which only management have access to.

Assessment of Inherent & Control risks

The recording of all fuel usage invoices on each site is carried out by the Financial director and his team. The list of fuels used on site are ticked off a list annually and invoices are segregated for each fuel type and a record is kept. This list is reviewed at the end of the year again to ensure that all fuels used on site during the year are listed and recorded. See list below for fuels used on each site.

Fuels Used on

1. Kerosene
2. HFO
3. Natural Gas
4. Tallow
5. BHO
6. Propane.

The emission points are also checked at the end of each year. If a new emission point is added or removed from the site it must be noted and changed in the monitoring and reporting plan. A site tour is done annually to ensure that all emission points are accounted for the emission points are then marked on a site map.

Please see procedure attached for the risk matrix.

Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008
List of EN or other standards applied	ISO 14,001

hh. 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	Procedure for Quality Assurance of Metering/ Measuring Equipment
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	<p>Quality assurance of the measurement equipment;</p> <p>The Precia Molen weigh bridge 14F705847 to the side of the Transport Office is used to weigh all fuel entering and leaving the site.</p> <p>This weighbridge is calibrated annually (February of each year.) The load cells to the Tallow fuel oil tank T680 are also calibrated annually also in February of each year.</p> <p>Boilers are serviced twice year by Saacke and any maintenance required is carried out.</p> <p>The Thermal Exhaust Air Purification Systems are also serviced twice a year and any maintenance work required is carried out.</p> <p>The boiler which heats the water to the Office Block is serviced annually by a local Plumber.</p> <p>If the results of any of the surveys indicate that emissions exceed the statutory limits or a piece of equipment is reading out of specification then a Corrective Action Request (EC4) is raised so as to ensure quality assurance of any measuring equipment in accordance with Article 58 and 59 of the MRR.</p>
Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008
List of EN or other standards applied	ISO 14,001

ii. 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	Procedure for Quality Assurance of Information Technology
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Reference for procedure	used for Data Flow Activities
Diagram reference	CP GHG 01 (Revision No. 5)
Brief description of procedure. The description should cover the essential parameters and operations performed	N/A
	The IT administrator must ensure that the IT systems used for the dataflow activities are secure and failure safe.
	College Proteins operates a windows Server 2003, and is currently in the process of up grading to a Windows server 2008 (64 bits). This system must be checked and maintained by the in house IT administrator.
	The server is stored in its own room and is kept locked. The CEO & IT administrator are the only people with keys. The server must be backed up on tape every night. Each computer must be kept up to date with latest Nord 32 antivirus and firewall. Each PC & server has different passwords and user names for security. There is an in house IT administrator whom looks after all the IT quality assurance and security of the system so as to ensure quality assurance of information technology used for data flow activities in accordance with Article 58 and 60 of the MRR.
Post or department responsible for the procedure and for any data generated	IT Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008
List of EN or other standards applied	ISO 14,001

jj. 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	Proceedure for review & validation of data
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The Environmental Officer is responsible for scheduling and conducting a minimum of two Management Review meetings during each 12 month period and for ensuring that necessary data is collected prior to the meetings.
	At a minimum each review meeting will consider the following;
	The usage of energy & carbon emission production;
	The suitability, adequacy and effectiveness of the

environmental policy;

The suitability, adequacy and effectiveness of the environmental objectives;

The suitability, adequacy and effectiveness of the EMS;

The status of corrective and preventative actions;

The results of any EMS audits since previous review meeting;

General Policy:

To establish and maintain a procedure and programme for internal audits to be carried out these Audits ensure that College Proteins are compliant with the E.M.S. and are compliant with the IPPC License. To ensure that corrective actions are effective.

Responsibility: The Environmental Officer

Purpose: To determine whether or not the environmental management system:

- Conforms to planned arrangements for environmental management including the requirements of this International Standard

- Has been properly implemented and maintained.

This will include.

- details of areas to be audited

- methods of communicating the results to the appropriate personnel

- frequency of audits

- competence of auditor. So as to ensure regular internal reviews and validation of data in accordance with Articles 58 and 62 of the MRR.

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

Financial department

Location where records are kept

Financial Directors office

Name of IT system used

Windows server 2008

List of EN or other standards applied

ISO 14,001

kk. 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	Procedure for Corrections & Corrective actions
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	Each year the data flow activities and steps carried must be questioned and assessed for validity. This is carried out by the environmental officer who assess each piece of monitoring equipment and recording process to determine if there is a better way of doing it. If any malfunctioning occurs in terms of monitoring and reporting data it must be investigated thoroughly and the cause found and addressed so as to handle corrections and corrective actions in accordance with Articles 58 and 63 of the MRR.
	Corrective action is initiated in CPL using the Corrective Action Notice (CAN) document for communication purposes. The Environmental Officer is responsible for reviewing issues affecting the EMS, for logging the CAN and tracking and recording submission of solutions in the CPL database (Corrective Action Status Log EC5). The Environmental Officer raises and completes a Corrective Action Notice (EC4) then meets with the relevant manager to initiate the corrective action. The corrective action will correspond to the risks encountered. The corrective action request is left with the relevant manager with details recorded in the Corrective Action Status Log (EC5).
Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008
List of EN or other standards applied	ISO 14,001

ll. 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	Procedure for Control of out sourced activities
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should	The Procedure to Approve and Monitor Contractors

cover the essential parameters and operations performed (E.P.10) is in place to ensure that contractors (including hauliers) are familiar with and adhere to College Proteins Safety, Health and Environmental Rules and Conditions for Contractors. An Approved Contractor List (EC33) is maintained which contractors may be removed from for continual breaches of the College Proteins rules and regulations.

The outsourced data flow activities are the fuel invoices and weighbridge weights of fuel suppliers. College Proteins requests the weighbridge calibration certs from these companies to ensure they are correct. College Proteins also double checks the fuel weights on the weigh bridge on site. The college Proteins is calibrated annually also by Precia Molen.

The load cells to the Tallow fuel oil tank T680 are also calibrated annually also in February of each year by an external electrical contractor.

The external contractors used in relation to the data flow activities are certified and checked to ensure that their calibration processes are correct so as to control outsourced processes in accordance with Articles 59 and 64 of the MRR.

Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008
List of EN or other standards applied	ISO 14,001

mm. Record Keeping and Documentation

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

Title of procedure	Procedure for Record keeping & documentation
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	<p>Reporting and records:</p> <p>All fuel quantities are recorded at intake and their usage recorded on a weekly basis, recording opening and closing stocks for which will have current density conversation factors. All delivery dockets will be checked and verified for authenticity and approval and matched with relevant invoices. Fuel Delivery Invoices will be kept in the Accounts</p>

Department.

A stock take of the fuel storage tanks is carried out in early January each year. An independent witness (our auditor) is present for this to verify the stock quantities. A record of this stock take is retained on file and can be verified by our auditors. There is an Independent Audit carried out in early January each year to verify fuel stocks. All fuel delivered from Sean Mcentee Oils is weighed in to verify stocks.

BHO delivered to site is weighed, and subsequently mixed with tallow in Tank 1 and burned in the Boilers/Thermal Oxidisers.

Fuel analysis certificates for BHO are kept on file at the Lab.

Internal reviews of both reported data and the quality system

All delivery dockets will be checked and verified for authenticity and approval and matched with relevant invoices which will be checked for calculation of units used and charged. Responsibility (David Devine).

Corrective and preventative action:

All boilers and oxidisers are checked and calibrated on a regular basis to ensure fuel efficiency and are maintained in good condition. Furthermore, all documentation will be kept for 10 years in accordance with Annex IX of the MRR.

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

Financial Department

Location where records are kept

Financial managers office

Name of IT system used

Windows server 2008

List of EN or other standards applied

ISO 14,001

nn. 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

oo. 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**pp. 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	Procedure to monitor changes in the operation
Reference for procedure	CP GHG 01 (Revision No. 5)
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	All changes or planned changes in terms of production throughput, processes and fuel types must be notified by the environmental officer in the company to the Environmental Protection Agency no later than 31 December each year if they have an impact on the capacity activity level and the HAL.

Post or department responsible for the procedure and for any data generated	Environmental Department
Location where records are kept	Laboratory
Name of IT system used	Windows server 2008

13. Abbreviations

qq. Abbreviations Acronyms or definitions

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

Abbreviation	Definition
N/A	N/A

14. Additional Information

Any other information:

Attachment	Description
College Proteins Metering System Summary 25-10-2013.pdf	BGE Meter information
College Proteins.pdf	BGE Meter data
Metering Uncertainty Calculations College.docx	BGE metering uncertainty
Data Flow Activities College Proteins.pdf	Data Flow Activities Schematic
ISCC EU 2014 certificate College Proteins.pdf	Tallow Sustainability certificate
Tank 5 Calibration certificate 081014.pdf	Calibration Certificate for Tank 5 Tallow tank
Tallow Analysis (Density).pdf	Tallow analysis - Density
AR-14-AH-009459-012014827155326-Logo-merged.pdf	Tallow Analysis - Calorific Value
AR-14-AH-011622-022014102492852-Logo-merged.pdf	Tallow Analysis - Calorific Value
AR-14-AH-013729-0120141212155027-Logo-merged.pdf	Tallow Analysis - Calorific Value
Tallow Analysis calorific value.pdf	Tallow Analysis - Calorific Value
Emo-PS-Kerosene1 2014.pdf	Kerosene- Density
Emo PS Low Sulphur Residue Heavy Fuel Oil updated.doc	HFO - Density
Green House Gas Procedure 01 CP.doc	Green House gas Proceedure Revision No. 5

15. Confidentiality

rr. 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.