



Headquarters,
Johnstown Castle Estate,
County Wexford, Ireland

GREENHOUSE GAS EMISSIONS PERMIT

Permit Register Number:	IE-GHG198-10525-2
Operator:	Swords Laboratories Cruiserath Road Mulhuddart Dublin 15 D15 H6EF
Installation Name:	Bristol Myers Squibb Cruiserath Biologics
Site Name:	Bristol Myers Squibb Cruiserath Biologics
Location:	Cruiserath Road Mulhuddart Dublin 15 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-GHG198-10525.

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
P0552-03

Status Log

Current Permit

Permit number	Date application received	Date Permit issued	Comment
IE-GHG198-10525-2	09 December 2020	02 June 2021	Addition of the De-minimis source streams F3 (Acetylene) and F4 (LPG). Addition of the emission source S26 combustion of acetylene from maintenance activities 0.01 MW thermal input capacity.

Previous Permits

Permit number	Change Type	Date application received	Date Permit issued	Comment
IE-GHG198-10525-1	GHG Permit Application	24 June 2020	10 July 2020	

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)	Swords Laboratories
“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:

Swords Laboratories
Cruiserath Road
Mulhuddart
Dublin 15
D15 H6EF

Company Registration Number: 60709

to carry out the following

Categories of activity:

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

at the following installation(s):

Bristol Myers Squibb Cruiserath Biologics **Installation number:** 213340

located at

Cruiserath Road
Mulhuddart
Dublin 15
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.: 213340

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
(S27) Fermentation and Cell Culture

- 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	Steam Boiler 1 (Dual Fuel)	9.8	MW
S2	Steam Boiler 2 (Dual Fuel)	9.8	MW
S3	Steam Boiler 3 (Dual Fuel)	9.8	MW
S4	P2500-1 701 Genset	5.47	MW
S5	P2500-1 701 Genset	5.47	MW
S6	Diesel Fire pump 1	0.76	MW
S7	Diesel Fire pump 2	0.76	MW

Emission Source Reference	Emission Source Description	Capacity	Capacity Units
S8	Diesel Fire pump 3	0.98	MW
S9	Diesel Fire pump 4	0.98	MW
S10	P135 Storm water Genset	0.3	MW
S11	P135 Storm water Genset	0.3	MW
S12	50 Gen 001	2.25	MW
S13	40 Gen 001	2.95	MW
S14	30 Gen 001.01	2.95	MW
S15	Old Canteen Boiler 1	0.19	MW
S16	Old Canteen Boiler 2	0.19	MW
S17	Old Canteen Calorifier 1	0.14	MW
S18	Old Canteen Calorifier 2	0.14	MW
S19	Laboratory Boiler 1	0.48	MW
S20	Laboratory Boiler 2	0.48	MW
S21	Eng. Stores Boiler 1	0.19	MW
S22	Eng. Stores Boiler 2	0.19	MW

Emission Source Reference	Emission Source Description	Capacity	Capacity Units
S23	Admin Building Boiler 1	0.15	MW
S24	Admin Building Boiler 2 stack	0.15	MW
S25	LOC Building Canteen Cookers	0.04	MW
S26	Combustion of acetylene from maintenance activities	0.01	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.

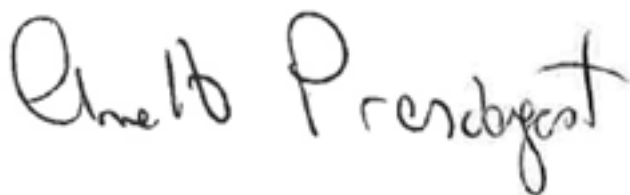
Reason: To provide for the surrendering, holding, transfer and cancellation of allowances in respect of reported emissions.

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.

Signed by the Authorised Person on this the 02 June 2021:



Ms. Annette Prendergast
Inspector/ Authorised Person

Appendix 1 to Greenhouse Gas Emissions Permit Number IE-GHG198-10525

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	Bristol Myers Squibb Cruiserath Biologics
Site name	Bristol Myers Squibb Cruiserath Biologics
Address	Cruiserath Road Mulhuddart Dublin 15 Ireland

Grid reference of site main entrance	E 308200, N 241831
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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
P0552-03	Swords Laboratories (T/A Bristol Myers Squibb Cruiserath Biologics)	EPA

Has the regulated activity commenced at the Installation? Yes

Date of Regulated Activity commencement	04 September 2017
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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 Swords Laboratories

Company Registration Number 60709

Operator Legal status

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

(c) Company / Corporate Body

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

Registered office address

Address Line 1	Cruiserath Road
Address Line 2	Mulhuddart
City/Town	Dublin 15
County	N/A
Postcode	D15 H6EF

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? Yes

Holding company name Bristol-Myers Squibb Company

Holding company address

Address Line 1	430 E 29th Street, New York, NY 10016
Address Line 2	N/A
City/Town	New York
County	N/A
Postcode	NY 10016
Company registration number	7979565

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

(d) Operator Authority

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

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

4. Service Contact

e. Service Contact

Address	Cruiserath Road Mulhuddart Dublin 15 Ireland
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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 site is engaged in the production of pharmaceutical products, including intermediates. The site is a biologics drug substance facility, which means that no solvents are used in the production operations. There are a number of buildings on the site, the main areas which house combustion units are listed below:

1- Multi-product cell culture (MPCC) building (Building 110) which manufactures the drug-substance. This building contains various production vessels, pumps, fans and productions lines.

2 - Central utilities building (CUB, Building 140) which is an engineering building housing site utilities such as boilers and other engineering infrastructure. This building houses steam boilers; numbers 1 through 3. All three units are normally fired using natural gas. These three boilers are "dual fuel" in that they can also be fired using gas-oil/diesel. These boilers are test-fired using gas-oil four times per annum for test purposes only. the consumption quantity of gas-oil during these test firing events is captured by reference to the opening, closing and gas-oil delivery records from the main gas-oil tank stock takes.

The CUB also houses two generators, both are types P2500-1 and these are fired using diesel/gas-oil.

3 - Global Biologics Laboratory (GBL) (Building 311) which is responsible for the testing and release of Biologics Drug Product for the Bristol-Myers Squibb network. This building houses Laboratory Boiler 1 and Laboratory Boiler 2, both fired on natural gas.

4 - Warehouse, Cryogenics & Logistics (WCL) building which is a multi-functional building providing storage, raw material sampling and logistical support to the MPCC manufacturing area.

5 - Laboratory, Office & Cafeteria (LOC) (Building 131) which contains three laboratories for the Cruiserath site as well as office spaces for supporting departments. This building natural gas fired canteen equipment.

6 - The canteen building (Building 351) houses Old Canteen Boiler 1, Old Canteen Boiler 2, Old Canteen Calorifier 1 and Old Calorifier 2, all four units are fired on natural gas.

7 - The Engineering building (Building 301) houses Engineering Stores Boilers 1 and 2, both fired on natural gas.

8 - The Admin Building/Data Centre (Building 341) houses Admin Building Boilers 1 and 2, both fired on natural gas.

9 - Fire Water Tank building (Building 632) houses Diesel Fire Pump Engines 3 and 4. There are two further Diesel Fire Pump engines (Engines 1 and 2) which are located at Building 152. All four Diesel Fire Pump Engines are fired on diesel.

10 - The Deluge Valve House (Building 635) houses two P 135 Storm Water Generator sets, both fired on diesel.

11 - The Environmental Control System (Building 502) houses one electrical generator (50 Gen 001) powered by a diesel engine.

12 - An electrical substation (Building 701) houses one one electrical generator (40 Gen 001) powered by a diesel engine.

13 - A Facilities Substation (Building 702) houses one one electrical generator (30 Gen 001.01) powered by a diesel engine.

The Cruiserath facility is the capable of manufacturing multiple products produced at one time.

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
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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)	54.92	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
SK-143 GHG Emissions Map Rev 2.pdf	SK-143 GHG Emissions Map

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)}) 8220

Justification for the use of a conservative estimate of CO₂ emissions. We have made the following conservative assumptions in arriving at our calculated CO_{2e} emissions.

To be conservative assume all Nat gas units in 24 hr/day use for 50 weeks per annum and we assume the diesel driven combustion units are run for 4 hours each per for 50 weeks per annum (this is an overestimate to ensure conservativeness).

Then using this activity data (based on operating experience) and using EPA specified Emission Factors and Oxidation Factors as published by the Agency in December 2019 (Rev 18 of the Country Specific Net Calorific Values and CO₂ Emission Factors for use in the Annual Installation Emissions Report- 2019) we have calculated the following emissions:-

From Natural Gas fired combustion plant = 7316.95 t CO_{2e}

approximately.

From Diesel fired combustion plant = 902.23 t CO₂e approximately.

Total estimated GHG = 8219.18

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	Steam Boiler 1 (Dual Fuel)
S2	Steam Boiler 2 (Dual Fuel)
S3	Steam Boiler 3 (Dual Fuel)
S4	P2500-1 701 Genset
S5	P2500-1 701 Genset
S6	Diesel Fire pump 1
S7	Diesel Fire pump 2
S8	Diesel Fire pump 3
S9	Diesel Fire pump 4
S10	P135 Storm water Genset
S11	P135 Storm water Genset

Emission Source Reference	Emission Source Description
S12	50 Gen 001
S13	40 Gen 001
S14	30 Gen 001.01
S15	Old Canteen Boiler 1
S16	Old Canteen Boiler 2
S17	Old Canteen Calorifier 1
S18	Old Canteen Calorifier 2
S19	Laboratory Boiler 1
S20	Laboratory Boiler 2
S21	Eng. Stores Boiler 1
S22	Eng. Stores Boiler 2
S23	Admin Building Boiler 1
S25	LOC Building Canteen Cookers
S24	Admin Building Boiler 2 stack
S27	Fermentation and Cell Culture
S26	Combustion of acetylene from maintenance activities

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

Emission Source Reference	Emission Source Description
S1	Steam Boiler 1 (Dual Fuel)
S2	Steam Boiler 2 (Dual Fuel)
S3	Steam Boiler 3 (Dual Fuel)
S4	P2500-1 701 Genset
S5	P2500-1 701 Genset
S6	Diesel Fire pump 1
S7	Diesel Fire pump 2
S8	Diesel Fire pump 3
S9	Diesel Fire pump 4
S10	P135 Storm water Genset
S11	P135 Storm water Genset
S12	50 Gen 001
S13	40 Gen 001
S14	30 Gen 001.01
S15	Old Canteen Boiler 1
S16	Old Canteen Boiler 2

Emission Source Reference	Emission Source Description
S17	Old Canteen Calorifier 1
S18	Old Canteen Calorifier 2
S19	Laboratory Boiler 1
S20	Laboratory Boiler 2
S21	Eng. Stores Boiler 1
S22	Eng. Stores Boiler 2
S23	Admin Building Boiler 1
S24	Admin Building Boiler 2 stack
S25	LOC Building Canteen Cookers
S26	Combustion of acetylene from maintenance activities

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
EP1	Steam boiler 1 Stack
EP2	Steam boiler 2 stack
EP3	Steam boiler 3 stack
EP4	P2500-1 701 Genset stack
EP5	P2500-1 701 Genset stack
EP6	Diesel Fire pump 1 exhaust
EP7	Diesel Fire pump 2 exhaust
EP8	Diesel Fire pump 3 exhaust
EP9	Diesel Fire pump 4 exhaust
EP10	P135 Storm water Genset exhaust
EP11	P135 Storm water Genset exhaust
EP12	50 Gen 001 exhaust
EP13	40 Gen 001 exhaust
EP14	30 Gen 001.01 exhaust
EP15	Old Canteen Boiler 1 stack
EP16	Old Canteen Boiler 2 stack
EP17	Old Canteen Calorifier 1 stack
EP18	Old Canteen Calorifier 2 stack
EP19	Laboratory Boiler 1 stack
EP20	Laboratory Boiler 2 stack

Emission Point Reference	Emission Point Description
EP21	Eng. Stores Boiler 1 stack
EP22	Eng. Stores Boiler 2 stack
EP23	Admin Building Boiler 1 stack
EP24	Admin Boiler 2 stack
EP25	LOC Canteen Cookers stacks
N/A	Fermentation and Cell Culture
EP26	Workshop acetylene gases

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 (Natural Gas)	Combustion: Other gaseous & liquid fuels	Natural Gas
F2 (Gas Oil) (a potential major source should the boilers run on F2 for extended periods)	Combustion: Commercial standard fuels	Gas/Diesel Oil
F4 (LPG)	Combustion: Commercial standard fuels	Liquefied Petroleum Gases
F3 (Acetylene)	Combustion: Other gaseous & liquid fuels	Acetylene

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 (Natural Gas)	S1,S15,S16,S17,S18,S19,S2,S20,S21,S22,S23,S24,S25,S3	EP1,EP2,EP3,EP15,EP16,EP17,EP18,EP19,EP20,EP21,EP22,EP23,EP24,EP25	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)
F2 (Gas Oil) (a potential major source should the boilers run on F2 for extended periods)	S1,S10,S11,S12,S13,S14,S2,S3,S4,S5,S6,S7,S8,S9	EP1,EP2,EP3,EP4,EP5,EP6,EP7,EP8,EP9,EP10,EP11,EP12,EP13,EP14	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)

Source streams (Fuel / Material)	Emission Source Refs.	Emission Point Refs.	Annex 1 Activity
			or municipal waste)
F3 (Acetylene)	S26	EP26	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 (LPG)	S1,S2,S3	EP1,EP2,EP3	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
n/a	S27	N/A

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 Yes

with low emissions (as defined by Article 47 of the MRR)?

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:

For Source Stream F1 (Natural Gas [NG]), the following is the calculation approach proposed:-

a) Monthly NG invoices from utility company are recorded in either kWh Gross Calorific Value (GCV) or kWh Net Calorific Value (NCV), if in GCV, this is converted to NCV (kWh (Gross) to kWh (net): Multiply by the appropriate years gross to net conversion factor on the EPA website (Country Specific Net Calorific Values and Carbon Dioxide Emission Factors for use in the Annual Installation Emissions Report).

b) The NCV figure in kWh is then converted to Terra Joules (TJ) net by multiplication of kWh by 0.0000036 (Data from EPA Document Version 18 December 2019).

c) The net TJ value is then converted to tonnes CO₂ by multiplying the Activity Data in TJ by the Emission Factor and the Oxidation factor (Both supplied by EPA annually, in the example shown we have used EPA factors from December 2019). Example shown below:-

Bristol Myers Squibb

Gas Consumption: kWh (Based on Natural Gas Energy Invoices) Example only to show methodology

	Activity data		Emission Factor		Oxidation Factor	CO2 Emissions (tonnes)
	2019 kWh (Gross)	2019 kWh (Net)	2019 TJ (Net)	2019 (t CO2/TJ)	OF	t COe
Jan	4,207,402	3,793,814	13.66	55.738	1	761
Feb	2,056,312	1,854,177	6.68	55.738	1	372
Mar	2,217,884	1,999,866	7.20	55.738	1	401
Apr	3,018,771	2,722,026	9.80	55.738	1	546
May	3,345,824	3,016,930	10.86	55.738	1	605
Jun	1,552,935	1,400,281	5.04	55.738	1	281
Jul	2,278,462	2,054,489	7.40	55.738	1	412
Aug	4,793,247	4,322,071	15.56	55.738	1	867
Sep	5,051,673	4,555,094	16.40	55.738	1	914
Oct	4,769,061	4,300,262	15.48	55.738	1	863
Nov	1,433,006	1,292,142	4.65	55.738	1	259
Dec	2,622,810	2,364,988	8.51	55.738	1	475
Total:	37,347,387	33,676,139	121.23			6,757.35

Conversion Factors: kWh (Gross) to kWh (net): Multiply by 0.9017 (Data from EPA Document Version 18 December 2019)

kWh (net) to TJ: Multiply by 0.0000036 (Data from EPA Document Version 18 December 2019)

Emission Factor 55.738 t CO₂/TJ for Natural Gas (Data from EPA Document Version 18 December 2019)

Oxidation Factor: 1 (Data from EPA Document Version 18 December 2019)

For Source Stream F2 (Diesel/gas oil), the following is the calculation approach proposed:-

The methodology used to monitor CO₂ emission is based on calculation by the means of gas oil consumption. The site consists of scheduled activities only.

STOCK AT START AND END OF YEAR The Site Operations Manager shall arrange for the level of the oil tanks to be checked at the beginning of the year (within the first week of the year) and this shall be recorded as the initial gas oil stock. The stock level showing on the Operations Report at the time of the stock survey will be recorded. If any difference is observed its cause will be ascertained. The stock level showing on the Operations Report will be corrected by this difference. The stock difference between start and end of the year will be determined using the results of these independently witnessed meter readings. **GAS OIL CONSUMPTION** Consumption will be based on delivery invoices and difference in stock levels at the start and end of each year. Oil is delivered by road tankers which are loaded through fiscal meters. The delivery dockets and invoices are based on the fiscal meters. The fiscal meters are calibrated and certified annually. Deliveries are determined from the delivery dockets (litres) and converted to m³ and then to tonnes using a factor of 0.86 (this factor is updated regularly). Delivery dockets are cross-checked with the invoices. Data for NCV and EF are taken from the latest National Inventory data as submitted to the UNFCCC. An oxidation factor of unity is used.

CALCULATION FOR ANNUAL CO₂ EMISSIONS CO₂ emissions (tonnes) = Fuel consumed (tonnes) x Emission factor x NCV x Oxidation factor

For Deminimis Source Streams F3 (Acetylene) and F4 (LPG) the following is the calculation approach proposed:-

The methodology used to monitor CO₂ emission is based on calculation by the means of fuel consumption. The site consists of scheduled activities only. Consumption will be based on delivery invoices for F3 (Acetylene) and F4 (LPG).

Data for NCV and EF are taken from the current version of the EPA Country Specific Net Calorific Values and Carbon Dioxide Emission Factors for use in the Annual Installation Emissions Report. An oxidation factor of unity is used.

CALCULATION FOR ANNUAL CO₂ EMISSIONS CO₂ emissions (tonnes) = Fuel consumed (tonnes) x Emission factor x NCV x Oxidation factor

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 (Natural Gas)	S1,S15,S16,S17,S18, S19,S2,S20,S21,S22, S23,S24,S25,S3	MD1 (natural gas meter)	Turbine meter	0 to 8000	Sm ³ /h	5	South West perimeter fence along the Cruiserath Road
F2 (Gas Oil) (a potential major source should the boilers run on F2 for extended periods)	S1,S10,S11,S12,S13, S14,S2,S3,S4,S5,S6, S7,S8,S9	MD2 (Onsite Main Tank oil level meter); MD3 Gas oil invoices	tank dip and gas oil invoices	0 30 m ³	m ³	2.5	Site Main oil tank location.
F4 (LPG)	S1,S2,S3	MD4: Propane Delivery invoices	Delivery invoices	N/a	N/a	N/a	Utility yard north of Central Utility Building
F3 (Acetylene)	S26	MD5: Acetylene delivery invoices	Acetylene delivery invoices	N/a	N/a	N/a	Contractor 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 (Natural Gas)	MD1 (natural gas meter)	Continual	Trade partner	Yes	Yes	Yes
F2 (Gas Oil) (a)	MD2 (Onsite Main)	Batch	Trade partner	Yes	Yes	Yes

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
potential major source should the boilers run on F2 for extended periods)	Tank oil level meter); MD3 Gas oil invoices					
F4 (LPG)	MD4: Propane Delivery invoices	Batch	Trade partner	Yes	Yes	Yes
F3 (Acetylene)	MD5: Acetylene delivery invoices	Batch	Trade partner	Yes	Yes	Yes

t. Applied Tiers

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

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

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

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

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

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

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

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

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

Source Stream Refs.	Emission Source Refs.	Measurement Device Refs.	Overall Metering Uncertainty (less than +/- %)	Applied Monitoring Approach	Activity Data Tier Applied	Net Calorific Value Tier Applied	Emission Factor Tier Applied	Carbon Content Tier Applied	Oxidation Factor Tier Applied	Conversion Factor Tier Applied	Biomass Fraction Tier Applied	Estimated Emissions tCO _{2(e)}	% of Total Estimated Emissions	Source Category	Highest Tiers Applied	Justification for not applying the highest tiers	Improvement Plan Reference (where applicable)
F1 (Natural Gas)	S1,S15,S16,S17,S18,S19,S2,S20,S21,S22,S23,S24,S25,S3	MD1 (natural gas meter)	<5.0%	Standard	2	2b	2a	N/A	1	N/A	N/A	7317	88.99	Major	Yes	n/a	n/a
F2 (Gas Oil) (a potential major source should the	S1,S10,S11,S12,S13,S14,S2,S3,S4,S5,S6,S7,S8,S9	MD2 (Onsite Main Tank oil level meter) ; MD3	<2.5%	Standard	2	2a	2a	N/A	1	N/A	N/A	905	11.01	Major	Yes	n/a	n/a

Source Stream Refs.	Emission Source Refs.	Measurement Device Refs.	Overall Metering Uncertainty (less than +/- %)	Applied Monitoring Approach	Activity Data Tier Applied	Net Calorific Value Tier Applied	Emission Factor Tier Applied	Carbon Content Tier Applied	Oxidation Factor Tier Applied	Conversion Factor Tier Applied	Biomass Fraction Tier Applied	Estimated Emissions tCO _{2(e)}	% of Total Estimated Emissions	Source Category	Highest Tiers Applied	Justification for not applying the highest tiers	Improvement Plan Reference (where applicable)
boilers run on F2 for extended periods)		Gas oil invoices															
F4 (LPG)	S1,S2,S3	MD4: Propane Delivery invoices	N/A	Standard	No tier	2a	2a	N/A	1	N/A	N/A	0.01	0	De-minimis	N/A	n/a	n/a
F3 (Acetylene)	S26	MD5: Acetylene delivery invoices	N/A	Standard	No tier	1	1	N/A	1	N/A	N/A	0.01	0	De-minimis	N/A	n/a	n/a

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

8222.02

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 (Natural Gas)	S1,S15,S16,S17,S18,S19,S2,S20,S21,S22,S23,S24,S25,S3	2	2b	2a	N/A	1	N/A	N/A
F2 (Gas Oil) (a potential major source should the boilers run on F2 for extended periods)	S1,S10,S11,S12,S13,S14,S2,S3,S4,S5,S6,S7,S8,S9	2	2a	2a	N/A	1	N/A	N/A
F4 (LPG)	S1,S2,S3	No tier	2a	2a	N/A	1	N/A	N/A
F3 (Acetylene)	S26	No tier	1	1	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 (Natural Gas)	S1,S2,S3,S15,S16,S17,S18,S19,S20,S21,S22,S23,S25,S24	NCV	Gas Bills and NCV from National GHG Inventory	n/a
F1 (Natural Gas)	S1,S2,S3,S15,S16,S17,S18,S19,S20,S21,S22,S23,S25,S24	EF	National GHG Inventory	n/a
F1 (Natural Gas)	S1,S2,S3,S15,S16,S17,S18,S19,S20,S21,S22,S23,S25,S24	OxF	MRR EU Commission Regulation No. 2018/2066 and amending Regulation 2020/2085 as updated.	n/a
F2 (Gas Oil) (a potential major source should the boilers run on F2 for extended periods)	S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14	NCV and EF	National GHG Inventory	n/a
F2 (Gas Oil) (a potential major source should the boilers run on F2 for extended periods)	S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14	OxF	MRR EU Commission Regulation No. 2018/2066 and amending Regulation 2020/2085 as updated.	n/a
F4 (LPG),F3 (Acetylene)	S1,S2,S3,S26	NCV, EF, Oxidation Factor	Ireland's National Greenhouse Gas Inventory	n/a

Sampling and Analysis

Do you undertake sampling and analysis of any of the parameters used in the calculation of your CO₂ emissions? No

11. Management

x. Monitoring and Reporting Responsibilities

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

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

Job Title / Post	Responsibilities
EHS Management Representative	<p>To Ensure that all the requirements of the GHG Emissions Permit are implemented on site, including all notification requirements.</p> <p>To act as ETS Account Representative and to liaise with the Emissions Trading Registry (ETR) section of the Environmental Protection Agency (EPA) on behalf of BMS.</p> <p>To prepare the Annual GHG Emissions spreadsheet for the Verifier.</p> <p>To forward all emissions data and reports as required in the GHG permit to the Verifier and and the EPA and as required by Corporate BMS in required formats, within required time-frames.</p> <p>To retain copies of all GHG related correspondence to the EPA and to Corporate BMS</p> <p>These responsibilities are specified in SOP 01001 - Greenhouse Gas Management.</p>
Senior Engineer, Process & Utility Systems	<p>Maintain, track and determine the natural gas and electrical consumption for on site.</p> <p>Assist in the implementation of the GHG Emission Permit conditions and inform EHS of any changes that may</p>

Job Title / Post	Responsibilities
	<p>impact on GHG emissions.</p> <p>To manage and forward the relevant information to EHS for completion of the Annual GHG Emissions spreadsheet for the Verifier.</p> <p>To inform the EHS dept immediately in the event of the breakdown, malfunction or non-calibration as planned (on the software maintenance system) of critical GHG flow meters</p> <p>This role is specified in SOP 01001 - GHG Management.</p>
Stores Service Provider	<p>Request all gas oil deliveries with fuel supplier and record delivery details on BMS computerised maintenance system.</p> <p>Ensure retention of dockets for all gas oil, propane, acetylene deliveries and forward to the EHS dept as requested</p>
Utilities Service Provider (USP) - an On site contact engineering firm	<p>To manage, maintain and forward the relevant information to the EHS Dept for completion of the Annual GHG Emissions spreadsheet for the Verifier.</p> <p>To manage the deliveries of diesel to site. To ensure retention of a docket for each delivery and forward to EHS as requested. To ensure transfer of diesel from transportation tank to other site diesel tanks (GHG Tanks).</p> <p>Develop and maintenance calibration routines for GHG critical instruments and ensure they are carried out in accordance with BMS maintenance procedures</p> <p>To inform the EHS Dept. immediately in the event of the breakdown, malfunction, out of tolerance calibration or non-calibration as planned on BMS's computerized maintenance system, of any site GHG equipment.</p>

Attachment	Description
N/A	N/A

y. Assignment of Responsibilities

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

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

Title of procedure	Assignment of GHG roles and responsibilities - Part of SOP 01001
Reference for procedure	SOP 01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	Responsibilities for GHG Management are assigned by the BMS EHS Director who is responsible for guiding and directing the staff on implementation of GHG activities on site with the EHS Manager acting as a second in command. The EHS Director ensures the site is compliant with all applicable regulatory requirements and other Environmental standards to which BMS conforms. The Site Environmental Lead reports directly to the EHS Director and is responsible for the identification of source data, validation of this data, making the necessary calculations of emissions, forwarding the required information to the Climate Change Unit of the EPA and having the data independently verified annually. The site works involving recording of GHG data such as fuel delivery activities and fuel oil consumption data is managed and controlled by the Environmental Lead. The Environmental Lead reports to the EHS Director in a line function. Competence is managed by virtue of the education, training and experience of this management team. Training on the GHG procedures including SOP01001 is completed by all relevant site staff. All employees participate in annual performance appraisals which include a discussion of the key performance indicators - this includes environmental compliance.
Post or department responsible for the procedure and for any data generated	EHS Director
Location where records are kept	BMS SharePoint system
Name of IT system used	SharePoint
List of EN or other standards applied	N/A

z. Monitoring Plan Appropriateness

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

Title of procedure	Quality assurance of GHG Monitoring Plan
Reference for procedure	SOP - 01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The procedure ensures that a regular evaluation (at least annually) of the monitoring plan's appropriateness is undertaken, covering in particular any potential measures for the improvement of the monitoring methodology. This includes; checking the list of emissions sources and source streams, ensuring completeness of the emissions and source streams and that all relevant changes in the nature and functioning of the installation will be included in the monitoring plan; assessing compliance with the uncertainty thresholds for activity data and other parameters (where applicable) for the applied tiers for each source stream and emission source; and assessment of potential measures for improvement of the monitoring methodology applied. There shall be specific duties and work plans which specify: That the plan is conformant with the MRR, regular inspection of fuel quality and instrument calibrations - process and justification for determining and monitoring organizational boundaries methods to identify and monitor GHG programme requirements by regular consultation of the MRR and updates thereto, methods of identifying measurement technologies and data sources, selection and application of the processes and tools used for collecting, processing and reporting GHG information, methods for assessing the effect of changes to other related systems, procedures for authorizing, approving and documenting changes to information systems, the information technology systems used for dataflow activities are tested and controlled, including access control - back up, recovery and security, annual assessment of potential measures for improvement of the monitoring methodology at the site
Post or department responsible for the procedure and for any data generated	EHS Director
Location where records are kept	BMS SharePoint
Name of IT system used	SharePoint
List of EN or other standards applied	N/A

aa. Data Flow Activities

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

Title of procedure	GHG Management
Reference for procedure	SOP-01001

<p>Diagram reference</p> <p>Brief description of procedure. The description should cover the essential parameters and operations performed</p>	<p>N/A</p> <p>This procedure shall specify:</p> <ol style="list-style-type: none"> 1 - identification of the primary data sources. 2 - each step in the data flow from primary data to annual emissions. 3 - the relevant processing steps related to each specific data flow activity including the formulas and data used to determine the emissions. 4 - relevant electronic data processing and storage systems used as well as the interaction between such IT systems and other inputs including manual inputs. 5 - it shall specify how outputs of data flow activities are recorded and logged
<p>Post or department responsible for the procedure and for any data generated</p> <p>Location where records are kept</p> <p>Name of IT system used</p> <p>List of EN or other standards applied</p> <p>List of primary data sources</p>	<p>EHS Director</p> <p>BMS SharePoint</p> <p>SharePoint</p> <p>N/A</p> <ol style="list-style-type: none"> 1 - Data generated by the gas utility company from the main site gas meter.
<p>Description of the relevant processing steps for each</p>	<ol style="list-style-type: none"> 2 - Data generated by the gas oil/diesel, fuel supplier metered delivery tankers. 3- Data generated by the LPG and Acetylene fuel supplier invoiced deliveries. 3 - Data from the onsite Main Fuel/oil tank level indicator. 3 - Data from the on-board engine / generator set shall be recorded to indicate fuel use, run hours, electrical output. 4 - Emission and oxidation factors as issued and updated by the Irish EPA. <p>Monitoring data is collated with the facility's existing</p>

specific data flow activity.

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

inventorisation process for budgetary control and fuel (natural gas and oil) purchases. This consists of producing monthly reports, which feed into quarterly reports where appropriate and also into annual reports. The delivery of gas oil/diesel is subject to on-site supervision and includes a level check of the fuel tank before and after loading to ensure that tank level changes correspond to the metered quantity as displayed on the fuel delivery truck meter. A record of each delivery as well as the oil tank levels is recorded by the Utilities Service Provider and these data are recorded in the site GHG Sharepoint system. A standard manual check sheet is completed and stored for each delivery in order to comply with existing legislation under the ADR regulations as transposed into national regulations. On each occasion that an engine is run on test - the tank fuel level prior to and following each such run shall be recorded manually and on the site GHG SharePoint system. The run hour meter on the engine shall also be recorded at each run to allow for cross-checking of engine fuel use with tank level changes. Based on the fuel consumption for each run and the level drop in the fuel tank a reconciliation shall be carried out to ensure that instrument accuracy is maintained and any anomalies are immediately detected and corrected.

For annual reporting purposes, Diesel / Gas oil consumption is calculated by reference to deliveries (invoices) and stock difference (the activity data). CO₂ emissions are based on the product of the Activity Data *NCV*EF*OF. Data for NCV and EF are taken from the latest National tables submitted to the UNFCCC.

Natural gas consumption and consequent GHG emissions shall be quantified based on official invoices from the gas utility company. This is the NG activity data and the GHG shall be a function of Activity Data *NCV*EF*OF. Data for NCV and EF are taken from the latest National tables submitted to the UNFCCC.

Consumption will be based on delivery invoices for F3 (Acetylene) and F4 (LPG).

Data for NCV and EF are taken from the current version of the EPA Country Specific Net Calorific Values and Carbon Dioxide Emission Factors for use in the Annual Installation Emissions Report. An oxidation factor of unity is used.

CALCULATION FOR ANNUAL CO₂ EMISSIONS
 CO₂ emissions (tonnes) = Fuel consumed (tonnes) x Emission factor x NCV x Oxidation factor

Submit relevant documents to record data flow activities

Attachment	Description
N/A	N/A

bb. Assessing and Controlling Risks

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

Title of procedure	GHG Management
Reference for procedure	SOP-01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The initial risk assessment studied the inherent risk, based on the complexity of the technology. However as these generator sets are common practice and the natural gas meter and both are well understood the Inherent Risk is classified as low. The Control Risk (the risk that BMS will not detect a material error or misstatement concerning GHG emissions) is regarded as low as the engine management systems are fully automated and are regularly maintained in accordance with the manufacturer's recommendations. The main gas meter is under the control of the Utility company and as this is a fiscal meter (for invoice generation) the inherent and control risks are deemed to be low.
Post or department responsible for the procedure and for any data generated	EHS Director
Location where records are kept	BMS SharePoint system
Name of IT system used	SharePoint
List of EN or other standards applied	ISO 14064 Part 1:2018 may be followed (Note this is not a accreditation standard but a method showing good practice in GHG management).

cc. Quality Assurance of Metering / Measuring Equipment

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

Title of procedure	Calibration of on-site fuel tank level instruments
Reference for procedure	SOP-01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	The fuel tank level indicators shall be calibrated and maintained strictly in accordance with the manufacturers recommendations. All calibration work shall be carried out by trained and qualified technicians as part of BMS's

Quality Control procedures. The Calibration records shall be examined by the the Lead Instrument Engineer as a Quality Assurance measure at least annually.

Natural Gas main meter calibration is carried out by Gas Networks Ireland (GNI) and the calibration records and certificates are issued to BMS for inspection and record keeping purposes. Should GNI find this meter to have drifted out of the acceptable calibration – it shall be corrected and restored to appropriate calibration standard.

All natural gas and gas-oil/diesel calibration records shall be obtained and reviewed annually on-site and appropriate corrective action taken where issues are identified, with appropriate corrective actions taken and recorded.

The gas-oil/diesel on-site level indication instruments are based on differential pressure level measurement. This technology infers liquid level by measuring the pressure generated by the liquid in the vessel relative to atmospheric pressure (as the tanks are vented). These units shall be calibrated in accordance with the latest version of the manufacturers’ technical manuals.

Post or department responsible for the procedure and for any data generated	Engineering
Location where records are kept	BMS SharePoint
Name of IT system used	SharePoint
List of EN or other standards applied	Instrument manufacturer's procedures for calibration.

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

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

Title of procedure	GHG Management
Reference for procedure	SOP_01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	This SOP specifies how information technology used for data flow and monitoring is:-
	a) tested and under management control
	b) access to the BMS IT Domain is controlled through individual logins with unique passwords

	c) The individual log-in control provides complete information security
Post or department responsible for the procedure and for any data generated	EHS Director
Location where records are kept	BMS SharePoint
Name of IT system used	SharePoint
List of EN or other standards applied	N/A

ee. Review and Validation of Data

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

Title of procedure	GHG Management
Reference for procedure	SOP_01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	BMS shall internally review, at least annually, the data and data system and this review includes the following aspects:
	a) regularly review all GHG data and records
	b) methods to identify errors in the data if discovered
	c) methods checking data for completeness,
	d) methods of identifying measurement differences between current and previous years
	e) includes a cross-check between fuel delivery invoices and actual consumption, rates of combustion, units and oil stock levels
	f) monthly review of natural gas invoices to seek out any anomalous data in the invoiced NG figures.
	f) the criteria for rejecting anomalous data.
Post or department responsible for the procedure and for any data generated	EHS Director
Location where records are kept	BMS SharePoint
Name of IT system used	SharePoint
List of EN or other standards applied	N/A

ff. Corrections and Corrective Actions

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

<p>Title of procedure</p> <p>Reference for procedure</p> <p>Diagram reference</p> <p>Brief description of procedure. The description should cover the essential parameters and operations performed</p>	<p>GHG Management</p> <p>SOP-01001</p> <p>N/A</p> <p>In the event of non-conformance, BMS shall investigate the non-conformance to:</p> <ul style="list-style-type: none"> i. determine what caused the non-conformance. ii. determine what correction is required for the non-conformance. iii. ensure if preventative measures implemented are effective. iv. ensure procedures affected by the corrective actions taken are revised accordingly. This procedure defines the person(s) responsible for, and the authority they have, for investigating, correcting, mitigating, and preventing non-conformances. This procedure ensures that any corrective, mitigating, or preventative actions are appropriate to the nature and scale of the associated environmental impact or potential for environmental impact of that non-conformance. BMS shall document and maintain a record of non-conformances. <p>BMS shall ensure that the Environmental Protection Agency is notified in writing - within three days of BMS becoming aware - of any factors which may prevent compliance with the conditions of the permit and any temporary change to the monitoring methodology is notified without undue delay to the Agency.</p>
<p>Post or department responsible for the procedure and for any data generated</p> <p>Location where records are kept</p> <p>Name of IT system used</p> <p>List of EN or other standards applied</p>	<p>EHS Director</p> <p>BMS SharePoint</p> <p>SharePoint</p> <p>N/A</p>

gg. Control of Outsourced Activities

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

Title of procedure	GHG Management
Reference for procedure	SOP-01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	This procedure defines how BMS's management controls any outsourced activities. The prime control mechanism is through a commercial contract which defines precise controls which the contractor shall have to comply with. Each outsourced activity will have a mission specific set of criteria with which the contractor shall comply with. Calibration records are obtained for the gas oil delivery trucks and reviewed upon receipt. For GHG Verification the installation shall appoint only those Verification bodies which are ISO 14065 accredited and accredited in accordance with AVR Regulation and are on the Accreditation Body list of approved verifiers.
Post or department responsible for the procedure and for any data generated	EHS Director
Location where records are kept	BMS SharePoint
Name of IT system used	SharePoint
List of EN or other standards applied	N/A

hh. Record Keeping and Documentation

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

Title of procedure	GHG Management
Reference for procedure	SOP-01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	BMS shall establish and maintain procedures for document retention and record keeping. We shall retain and maintain documentation supporting the design, development and maintenance of the GHG inventory to enable verification. The documentation, whether in paper, electronic or other format, shall be handled in accordance with the organization's GHG information management procedures for document retention and record keeping. All data and information stipulated in Annex IX of the MRR of relevance to the installation in accordance with the requirements of Article 66 of the Regulation is maintained on site for ten years. Controlled documents are:

- 1 - The risk assessment performed by the organisation.

- 2 - The monitoring plan approved by the EPA.

- 3 - Documents justifying the selection of the monitoring methodology and the documents justifying temporal or non-temporal changes of monitoring methodologies and tiers approved by the EPA .

- 4 - All relevant updates of monitoring plans notified to the competent authority in accordance with Article 15 of the MRR, and any correspondence from the EPA.

- 5 - All written procedures referred to in this monitoring plan, including the procedures for data flow activities and the procedures for control activities.

- 6 - A list of all versions used of the monitoring plan and all related procedures.

- 7 - Documentation showing the organisation's allocation of responsibilities in connection to the monitoring and reporting of GHG. 7 - The risk assessment performed by BMS.

- 8 - The improvement reports in accordance with Article 69 of MRR - where relevant to a "low emissions" site.

- 9 - The verified annual emission report issued by BMS and a copy of the annual independent verification report/statement.

26) BMS shall retain and maintain documentation supporting the design, development and maintenance of the GHG inventory to enable verification. The documentation, whether in paper, electronic or other format, shall be handled in accordance with this GHG information management procedure for document retention and record keeping.

The procedure details that in accordance with Article 66 of the MRR data and information stipulated in Annex IX of relevance to the installation is stored on site for 10 years and made readily available upon request of the EPA or Verifier.

Post or department responsible for the procedure and for any data generated EHS Director
 Location where records are kept BMS SharePoint
 Name of IT system used SharePoint
 List of EN or other standards applied N/A

ii. Risk Assessment

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

Attachment	Description
N/A	N/A

jj. Environmental Management System

Does your organisation have a documented Environmental Management System? Yes

Is the Environmental Management System certified by an accredited organisation? No

12. Changes in Operation

kk. Changes in Operation

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

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

The procedure specified below cover the following:

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

Title of procedure	GHG Management
Reference for procedure	SOP-01001
Diagram reference	N/A
Brief description of procedure. The description should cover the essential parameters and operations performed	Should any increase or decrease in thermal input to combustion installations be planned or anticipated at BMS, a prior notification shall be submitted to the EPA. This procedure shall be invoked at the planning stage of any such increase or decrease. In order to ensure this the site development and planning guidelines shall include a provision to refer to this SOP-01001.
Post or department responsible for the procedure and for any data generated	EHS Director
Location where records are kept	BMS SharePoint
Name of IT system used	SharePoint

13. Abbreviations

II. Abbreviations Acronyms or definitions

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

Abbreviation	Definition
BMS	Bristol Myers Squib

Abbreviation	Definition
GHG	Greenhouse Gas
ISO	International Standards Organisation
EPA	Environmental Protection Agency
NG	Natural Gas
EHS	Environment, Health and safety (the internal environmental management branch of BMS)
NCV	Net Calorific Value
GCV	Gross Calorific Value
EF	Emission Factor
OF	Oxidation Factor

14. Additional Information

Any other information:

Attachment	Description
epa 619 revised date for licenced activities.pdf	Letter from EPA confirming revised start date of activities on site
JS50 Calibration Cert.pdf	Tanker Oil delivery meter calibration certificate
BMS Cruiserath GPRN 2139220 NOV'19_Cal cert.pdf	Nat Gas site meter calibration certificate (1/2)
Bristol Myers Squib Gas Metering System Summary 2020.pdf	Nat gas Meter calibration summary info
EM3 SOC 030320 BMSC002 EUETS Assessment rev0.pdf	Independent third party engineering report on RTI' of each combustion unit
FG Wilson 701gen.pdf	Diesel gen-set Technical Specification sheets
Generator data sheets p910 (50gen) p1250 (30 40 gen).pdf	Gen-set technical specification sheets
Dual Fuel Main Steam Boilers.docx	Comment on Main Boiler dual fuel capability
Boiler bluetag handover cert _.pdf	Signed off handover cert by commissioning/construction team to operations Department
steam distribution bluetag handover cert.pdf	Site Steam and Condensate systems handover date
RTI of engine_Clarke Doosan S6 and S7.xlsx	Calculated RTI of S6 and S7, based on Clarke engine specification sheet.
Clarke; Detroit Diesel-Alison; DDFP 06 FA_ Specifications_S8 and S9.xlsx	Engine specs_ S8 and S9 Fire p/ps

Attachment	Description
Fire p_p engines_1, 2, 3 and 4.xlsx	List of and engine types for f/w p/ps 1, 2, 3 and 4.
RTI of engine_S12_TJ and MJ approaches..xlsx	Capacity S12
RTI of engine_S13_TJ and MJ approaches..xlsx	Capacity S13
RTI of engine_S14_TJ and MJ approaches..xlsx	Capacity S14
eclipse-705-hygienic-gwr-level-transmitter-datasheet_ex Magnatrol website.pdf	accuracy details gas oil tank dip
SOP-01001 - GHG Management_rev2.pdf	SOP-01001 GHG Management rev 2
FORM-04724 Diesel tank delivery log.docx	FORM-04724 Diesel tank delivery log

15. Confidentiality

mm. Confidentiality Statement

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

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

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

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

END of Appendix I.