



Headquarters,
Johnstown Castle Estate,
County Wexford, Ireland

GREENHOUSE GAS EMISSIONS PERMIT

Permit Register Number: IE-GHG203-11125-1

Operator: Amazon Data Services Ireland Limited
One Burlington Plaza
Burlington Road
Dublin 4
D04 RH96

Installation Name: Data Processing Centre - DUB 69

Site Name: Data Processing Centre - DUB 69

Location: Grange Castle South Business Park
Baldonnel
Dublin
D22
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-GHG203-11125.

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):

Status Log

Current Permit

| Permit number | Date application received | Date Permit issued | Comment |
|-------------------|---------------------------|--------------------|---------|
| IE-GHG203-11125-1 | 08 March 2021 | 11 May 2021 | |

Previous Permits

| Permit number | Change Type | Date application received | Date Permit issued | Comment |
|-------------------|------------------------|---------------------------|--------------------|---------|
| IE-GHG203-11125-1 | GHG Permit Application | 08 March 2021 | | |

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) | Amazon Data Services Ireland Limited |
| “operator” | Any person who operates or controls an installation or to whom decisive economic power over the functioning of the installation has been delegated. |
| Person | Any natural or legal person. |
| Reportable emissions | The total releases to the atmosphere of carbon dioxide (expressed in tonnes of carbon dioxide equivalent) from the emission sources specified in Table 2 and arising from the Schedule 1 activities which are specified in Table 1. |
| The Regulations | European Communities (Greenhouse Gas Emissions Trading) Regulations 2012 (S.I. No 490 of 2012) and any amendments or revisions thereto. |
| The Verifier | A legal person or another legal entity carrying out verification activities pursuant to Regulation (EU) No 600/2012 and accredited by a national accreditation body pursuant to Regulation (EC) No 765/2008 and Regulation (EU) No 600/2012 or a natural person otherwise authorised, without prejudice to Article 5(2) of Regulation (EC) No 765/2008, at the time a verification report is issued. |
| The Registry | The Registry as provided for under Article 19 of Directive 2003/87/EC. |

Schedule 1

Schedule 1 to the Regulations.



Reasons for the Decision

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

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:

Amazon Data Services Ireland Limited
One Burlington Plaza
Burlington Road
Dublin 4
D04 RH96

Company Registration Number: 390566

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):

Data Processing Centre - DUB 69 **Installation number:**

located at

Grange Castle South Business Park
Baldonnel
Dublin
D22
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 is the first GHG permit granted to the installation.
- 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.:

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

| Directly Associated Activity Description |
|--|
| N/A |

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

Table 2 Emission Sources and Capacities:

| Emission Source Reference | Emission Source Description | Capacity | Capacity Units |
|---------------------------|---------------------------------------|----------|----------------|
| S1 | Stack 1 (Emergency Back-Up Generator) | <200 | MW |
| S2 | Stack 2 (Emergency Back-Up Generator) | <200 | MW |
| S3 | Stack 3 (Emergency Back-Up Generator) | <200 | MW |
| S4 | Stack 4 (Emergency Back-Up Generator) | <200 | MW |
| S5 | Stack 5 (Emergency Back-Up Generator) | <200 | MW |
| S6 | Stack 6 (Emergency Back-Up Generator) | <200 | MW |
| S7 | Stack 7 (Emergency Back-Up Generator) | <200 | MW |
| S8 | Stack 8 (Emergency Back-Up Generator) | <200 | MW |

| Emission Source Reference | Emission Source Description | Capacity | Capacity Units |
|----------------------------------|--|-----------------|-----------------------|
| S9 | Stack 9 (Emergency Back-Up Generator) | <200 | MW |
| S10 | Stack 10 (Emergency Back-Up Generator) | <200 | MW |
| S11 | Stack 11 (Emergency Back-Up Generator) | <200 | MW |
| S12 | Stack 12 (Emergency Back-Up Generator) | <200 | MW |
| S13 | Stack 13 (Emergency Back-Up Generator) | <200 | MW |
| S14 | Stack 14 (Emergency Back-Up Generator) | <200 | MW |
| S15 | Stack 15 (Emergency Back-Up Generator) | <200 | MW |
| S16 | Stack 16 (Emergency Back-Up Generator) | <200 | MW |
| S17 | Stack 17 (Emergency Back-Up Generator) | <200 | MW |
| S18 | Stack 18 (Emergency Back-Up Generator) | <200 | MW |
| S19 | Stack 19 (Emergency Back-Up Generator) | <200 | MW |
| S20 | Stack 20 (Emergency Back-Up Generator) | <200 | MW |
| S21 | Stack 21 (Emergency Back-Up Generator) | <200 | MW |
| S22 | Stack 22 (Emergency Back-Up Generator) | <200 | MW |
| S23 | Stack 23 (Emergency Back-Up Generator) | <200 | MW |

| Emission Source Reference | Emission Source Description | Capacity | Capacity Units |
|---------------------------|---|----------|----------------|
| S24 | Stack 24 (Emergency Back-Up Generator) | <200 | MW |
| S25 | Stack 25 (Emergency Back-Up Generator) | <200 | MW |
| S26 | Stack 26 (Emergency Back-Up Generator) | <200 | MW |
| S27 | Stack 27 (Emergency Back-Up Admin Building Generator) | <200 | MW |
| S28 | Sprinkler Pump Stack | <200 | MW |
| S29 | Sprinkler Pump Stack | <200 | MW |

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

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

Condition 2. Notification

- 2.1 No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in a change in:
- 2.1.1 the nature or functioning of the installation;
 - 2.1.2 the capacity of the installation as detailed in this permit;
 - 2.1.3 the fuels used at the installation;
 - 2.1.4 the range of activities to be carried out at the installation
- that may require updating of the GHG permit shall be carried out or commenced without prior notice to and without the prior written agreement of the Agency.

- 2.2 The Operator shall notify the Agency in writing of the cessation of all or part of any activity listed in Table 1 of this permit no later than one month from the date of cessation or by 31 December of the year of cessation, whichever is sooner.
- 2.3 The Operator shall apply for an update of this GHG Permit where there is a change to the Operator name and/or registered address of the Operator, within seven days of the change.
- 2.4 For installations or parts of installations which have not come into operation when the application for this permit was made the Operator shall notify the Agency of the date of commencement of the activity within seven days of commencement.
- 2.5 The Operator shall notify the Agency in writing within three days of becoming aware of any factors which may prevent compliance with the conditions of this permit.
- 2.6 The Operator shall submit to the Agency by 21 January of each year a declaration of operability. The declaration submitted shall be in the format required by the Agency.
- 2.7 All notifications required under Condition 2 above shall be made to the address given in the Explanatory Note included with this permit.

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

Condition 3. Monitoring and Reporting

- 3.1 The Operator shall monitor and record greenhouse gas emissions on site in accordance with the M&R Regulation and the approved Monitoring Plan attached at Appendix 1 to this GHG permit and in compliance with any other guidance approved by the Agency for the purposes of implementing the Directive and/or the Regulations.
- 3.2 The Operator shall modify the monitoring plan in any of the following situations:
 - 3.2.1 new emissions occur due to new activities carried out or due to the use of new fuels or materials not yet contained in the monitoring plan;
 - 3.2.2 the change of availability of data, due to the use of new measurement instrument types, sampling methods or analysis methods, or for other reasons, leads to higher accuracy in the determination of emissions;
 - 3.2.3 data resulting from the previously applied monitoring methodology has been found incorrect;
 - 3.2.4 changing the monitoring plan improves the accuracy of the reported data, unless this is technically not feasible or incurs unreasonable costs;
 - 3.2.5 the monitoring plan is not in conformity with the requirements of the M&R Regulation and the Agency requests a change;
 - 3.2.6 it is necessary to respond to the suggestions for improvement of the monitoring plan contained in the verification report.

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

- 3.3 Temporary changes to the monitoring methodology:
 - 3.3.1 Where it is for technical reasons temporarily not feasible to apply the tier in the monitoring plan for the activity data or each calculation factor of a fuel or material stream as approved by the Agency, the Operator shall apply the highest achievable tier

until the conditions for application of the tier approved in the monitoring plan have been restored. The Operator shall take all necessary measures to allow the prompt restoration of the tier in the approved monitoring plan. The Operator shall notify the temporary change to the monitoring methodology without undue delay to the Agency specifying:

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

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

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

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

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

3.7 Where an Operator is applying the Fall-Back methodology, the Operator shall assess and quantify each year the uncertainties of all parameters used for the determination of the annual emissions in accordance with the ISO Guide to the Expression of Uncertainty in Measurement or another equivalent internationally accepted standard and include the verified results in the written report of the verified annual reportable emissions to be submitted to the Agency by 31 March each year.

3.8 An Operator shall submit to the Agency for approval a report containing the information detailed in (i) or (ii) below, where appropriate, by the following deadlines:

- (a) for a category A installation, by 30 June every four years;
- (b) for a category B installation, by 30 June every two years;
- (c) for a category C installation, by 30 June every year.

(i) Where the Operator does not apply at least the tiers required pursuant to the first subparagraph of Article 26(1) and to Article 41(1) of the M&R Regulation, the Operator shall provide a justification as to why it is technically not feasible or would incur unreasonable costs to apply the required tiers. Where evidence is found that measures needed for reaching those tiers have become technically feasible and do not incur unreasonable costs, the Operator shall notify the Agency of appropriate modifications to the monitoring plan and submit proposals for implementing appropriate measures and its timing.

(ii) Where the Operator applies a fall-back monitoring methodology, the Operator shall provide a justification as to why it is technically not feasible or would incur unreasonable costs to apply at least tier 1 for one or more major or minor source streams. Where evidence is found

that measures needed for reaching at least tier 1 for those source streams have become technically feasible and do not incur unreasonable costs, the Operator shall notify the Agency of appropriate modifications to the monitoring plan, submit proposals and a timeframe for implementing appropriate measures.

- 3.9 Where the verification report states outstanding non conformities, misstatements or recommendations for improvements the Operator shall submit a report to the Agency for approval by 30 June of the year in which the verification report is issued. This requirement does not apply to the Operator of an installation with low emissions where the verification report contains recommendations for improvements only. The report shall describe how and when the Operator has rectified or plans to rectify the non-conformities identified and to implement recommended improvements. Where recommended improvements would not lead to an improvement of the monitoring methodology this must be justified by the Operator. Where the recommended improvements would incur unreasonable costs the Operator shall provide evidence of the unreasonable nature of the costs. The Operator shall implement the improvements specified by the Agency in response to the report submitted in accordance with this Condition in accordance with a timeframe set by the Agency.
- 3.10 The Operator shall make available to the Verifier and to the Agency any information and data relating to emissions of carbon dioxide which are required in order to verify the reports referred to in Condition 3.5 above or as required by the Agency to facilitate it in establishing benchmarks and/or best practice guidance.
- 3.11 Provision shall also be made for the transfer of environmental information, in relation to this permit, to the Agency's computer system, as may be requested by the Agency.
- 3.12 The Operator shall retain all information as specified in the M&R Regulation for a period of at least 10 years after the submission of the relevant annual report.
- 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.

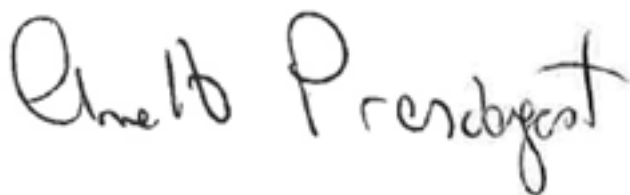
Reason: To provide for the surrendering, holding, transfer and cancellation of allowances in respect of reported emissions.

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 11 May 2021:



Ms. Annette Prendergast
Inspector/ Authorised Person

Appendix 1 to Greenhouse Gas Emissions Permit Number IE-GHG203-11125

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 | Data Processing Centre - DUB 69 |
| Site name | Data Processing Centre - DUB 69 |
| Address | Grange Castle South Business Park Baldonnel Dublin D22 Ireland |

| | |
|---|--------------------------|
| Grid reference of site main entrance | 703135.0156,730825.01565 |
|---|--------------------------|

| | |
|---|----|
| Licence held pursuant to the Environmental Protection Agency Act 1992, as amended. | No |
|---|----|

| | |
|---|----|
| Has the regulated activity commenced at the Installation? | No |
|---|----|

| | |
|-------------------------------|--------------|
| Expected date of commencement | 10 June 2021 |
|-------------------------------|--------------|

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 Amazon Data Services Ireland Limited

Company Registration Number 390566

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 | One Burlington Plaza |
| Address Line 2 | Burlington Road |
| City/Town | Dublin 4 |
| County | N/A |
| Postcode | D04 RH96 |

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 Amazon EU S.á.r.l.

Holding company address

| | |
|-----------------------------|--------------|
| Address Line 1 | 5 Rue Platis |
| Address Line 2 | L-2338 |
| City/Town | Luxembourg |
| County | N/A |
| Postcode | L-2338 |
| Company registration number | na |

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 | Grange Castle South Business Park Baldonnel Dublin D22 Ireland |
|---------|--|

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.

DUB69 is a data processing centre providing information service activities for the storage, management and dissemination of data operated by ADSIL. Most of the equipment used at the ADSIL DUB69 facility is information technology equipment, together with the equipment required to deliver the ancillary services (such as power supply and air conditioning) that are required in order to facilitate the proper operation of the information technology equipment. The installation uses power from the Irish electricity grid, and the installation is equipped with emergency back-up generators for use in the event of a disruption to the supply of electricity from the Irish electricity supply grid. The emergency back-up generators are operated throughout the year for testing and preventative maintenance purposes. The emergency back-up generators burn ultra-low sulphur diesel, stored onsite in above-ground storage tanks, which generates carbon dioxide (CO₂) emissions. Based on the foreseeable operation of the emergency back-up generators, the site is considered a low emissions installation, and the CO₂ emissions in any one year are predicted to be below 25,000 tonnes of CO₂.

The monitoring and reporting of CO2 emissions for this installation will be conducted in accordance with Article 47 of the European Regulations Commission Regulation No. 2018/2066 as amended by 2020/2085. Annual emissions of carbon dioxide from the installation will be estimated based on the generators annual fuel consumption. This will be measured through a combination of (i) a start of year and end of year stock take; together with (ii) the amount of diesel delivered (metered) by the fuel vendor during the year. Both data sets will be used, together with vendor information on the composition of the fuel and the net calorific value and emission factors (as outlined in current EPA guidance), to calculate an estimated figure for emissions of carbon dioxide by the generators. This method is appropriate for the installation as it qualifies under the low emitter threshold as installations which on average emit less than 25,000 CO2(e) per year. Our initial calculations indicate that this data centre as currently designed and operated will typically emit less than 1000 tonnes CO2(e) per year.

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) | <200 | 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 |
|--------------------------------------|--|
| House Gen - Emissions Data Sheet.pdf | DUB69 House Gen - Emissions Data Sheet |
| C3000 D5NS.pdf | DUB69 Emergency Back Up Generator Emissions Data Sheet |
| C3000 D5NS Performance Data.pdf | DUB69 Emergency Backup Generator Performance Data |
| DUB69_CAPACITY CALCS.pdf | DUB69 Capacity Calculations |
| ju6h-ufg8-usa.pdf | DUB69 Sprinkler Pump |
| SD20A0121 Notification.pdf | DUB69 Decision to Grant |
| DUB069- Gens and Fuel Tank.pdf | DUB69 Gens and Fuel Tank |

| Attachment | Description |
|-----------------------------|---|
| DUB069-Site Layout Plan.pdf | DUB69 Site Layout Plan and Emissions Points |

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)}) 500

Justification for the use of a conservative estimate of CO₂ emissions. DUB69 is a new installation therefore no previous verification data available. The estimate is based on similar ADSIL installations in Dublin

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 | Stack 1 (Emergency Back-Up Generator) |
| S2 | Stack 2 (Emergency Back-Up Generator) |
| S3 | Stack 3 (Emergency Back-Up Generator) |
| S4 | Stack 4 (Emergency Back-Up Generator) |
| S5 | Stack 5 (Emergency Back-Up Generator) |
| S6 | Stack 6 (Emergency Back-Up Generator) |
| S7 | Stack 7 (Emergency Back-Up Generator) |
| S8 | Stack 8 (Emergency Back-Up Generator) |

| Emission Source Reference | Emission Source Description |
|----------------------------------|---|
| S9 | Stack 9 (Emergency Back-Up Generator) |
| S10 | Stack 10 (Emergency Back-Up Generator) |
| S11 | Stack 11 (Emergency Back-Up Generator) |
| S12 | Stack 12 (Emergency Back-Up Generator) |
| S13 | Stack 13 (Emergency Back-Up Generator) |
| S14 | Stack 14 (Emergency Back-Up Generator) |
| S15 | Stack 15 (Emergency Back-Up Generator) |
| S16 | Stack 16 (Emergency Back-Up Generator) |
| S17 | Stack 17 (Emergency Back-Up Generator) |
| S18 | Stack 18 (Emergency Back-Up Generator) |
| S19 | Stack 19 (Emergency Back-Up Generator) |
| S20 | Stack 20 (Emergency Back-Up Generator) |
| S21 | Stack 21 (Emergency Back-Up Generator) |
| S22 | Stack 22 (Emergency Back-Up Generator) |
| S23 | Stack 23 (Emergency Back-Up Generator) |
| S24 | Stack 24 (Emergency Back-Up Generator) |
| S25 | Stack 25 (Emergency Back-Up Generator) |
| S26 | Stack 26 (Emergency Back-Up Generator) |
| S27 | Stack 27 (Emergency Back-Up Admin Building Generator) |
| S28 | Sprinkler Pump Stack |
| S29 | Sprinkler Pump Stack |

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

| Emission Source Reference | Emission Source Description |
|----------------------------------|--|
| S1 | Stack 1 (Emergency Back-Up Generator) |
| S2 | Stack 2 (Emergency Back-Up Generator) |
| S3 | Stack 3 (Emergency Back-Up Generator) |
| S4 | Stack 4 (Emergency Back-Up Generator) |
| S5 | Stack 5 (Emergency Back-Up Generator) |
| S6 | Stack 6 (Emergency Back-Up Generator) |
| S7 | Stack 7 (Emergency Back-Up Generator) |
| S8 | Stack 8 (Emergency Back-Up Generator) |
| S9 | Stack 9 (Emergency Back-Up Generator) |
| S10 | Stack 10 (Emergency Back-Up Generator) |
| S11 | Stack 11 (Emergency Back-Up Generator) |

| Emission Source Reference | Emission Source Description |
|----------------------------------|---|
| S12 | Stack 12 (Emergency Back-Up Generator) |
| S13 | Stack 13 (Emergency Back-Up Generator) |
| S14 | Stack 14 (Emergency Back-Up Generator) |
| S15 | Stack 15 (Emergency Back-Up Generator) |
| S16 | Stack 16 (Emergency Back-Up Generator) |
| S17 | Stack 17 (Emergency Back-Up Generator) |
| S18 | Stack 18 (Emergency Back-Up Generator) |
| S19 | Stack 19 (Emergency Back-Up Generator) |
| S20 | Stack 20 (Emergency Back-Up Generator) |
| S21 | Stack 21 (Emergency Back-Up Generator) |
| S22 | Stack 22 (Emergency Back-Up Generator) |
| S23 | Stack 23 (Emergency Back-Up Generator) |
| S24 | Stack 24 (Emergency Back-Up Generator) |
| S25 | Stack 25 (Emergency Back-Up Generator) |
| S26 | Stack 26 (Emergency Back-Up Generator) |
| S27 | Stack 27 (Emergency Back-Up Admin Building Generator) |
| S28 | Sprinkler Pump Stack |
| S29 | Sprinkler Pump Stack |

I. Emission Points

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

| Emission Point Reference | Emission Point Description |
|---------------------------------|-----------------------------------|
| EP1 | Diesel Engine Exhaust for S1 |
| EP2 | Diesel Engine Exhaust for S2 |
| EP3 | Diesel Engine Exhaust for S3 |
| EP4 | Diesel Engine Exhaust for S4 |
| EP5 | Diesel Engine Exhaust for S5 |
| EP6 | Diesel Engine Exhaust for S6 |
| EP7 | Diesel Engine Exhaust for S7 |
| EP8 | Diesel Engine Exhaust for S8 |
| EP9 | Diesel Engine Exhaust for S9 |
| EP10 | Diesel Engine Exhaust for S10 |
| EP11 | Diesel Engine Exhaust for S11 |
| EP12 | Diesel Engine Exhaust for S12 |

| Emission Point Reference | Emission Point Description |
|--------------------------|-------------------------------|
| EP13 | Diesel Engine Exhaust for S13 |
| EP14 | Diesel Engine Exhaust for S14 |
| EP15 | Diesel Engine Exhaust for S15 |
| EP16 | Diesel Engine Exhaust for S16 |
| EP17 | Diesel Engine Exhaust for S17 |
| EP18 | Diesel Engine Exhaust for S18 |
| EP19 | Diesel Engine Exhaust for S19 |
| EP20 | Diesel Engine Exhaust for S20 |
| EP21 | Diesel Engine Exhaust for S21 |
| EP22 | Diesel Engine Exhaust for S22 |
| EP23 | Diesel Engine Exhaust for S23 |
| EP24 | Diesel Engine Exhaust for S24 |
| EP25 | Diesel Engine Exhaust for S25 |
| EP26 | Diesel Engine Exhaust for S26 |
| EP27 | Diesel Engine Exhaust for S27 |
| EP28 | Sprinkler Pump Exhaust |
| EP29 | Sprinkler Pump Exhaust |

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 (Gas Oil) | Combustion: Commercial standard fuels | Gas/Diesel Oil |

n. Emissions Summary

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

| Source streams (Fuel / Material) | Emission Source Refs. | Emission Point Refs. | Annex 1 Activity |
|------------------------------------|--|---|--|
| F1 (Gas Oil) | S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29 | EP1,EP2,EP3,EP4,EP5,EP6,EP7,EP8,EP9,EP10,EP11,EP12,EP13,EP14,EP15,EP16,EP17,EP18,EP19,EP20,EP21,EP22,EP23,EP24,EP25,EP26,EP27,EP28,EP29 | Combustion of fuels in installations with a total rated thermal input exceeding 20 MW (except in installations for the incineration of hazardous or municipal waste) |

o. Excluded Activities

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

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

7. Low Emissions Eligibility

p. Low Emissions Eligibility

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

- (a) the average verified annual emissions of the installation during the previous trading period was less than 25 000 tonnes CO_{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:

The methodology used to monitor CO₂ emission is based on calculation of gas oil consumption. The site comprises one Top Up tank to facilitate diesel deliveries/off loading and a tank local to each generator.

The calculation methodology uses the stock levels in the bulk (Top Up and Generator) tanks which are fitted with level indicators. These level instruments are calibrated according to and at frequencies recommended in the manufacturers specifications. Calibration is undertaken by specialist instrumentation contractors.

STOCK AT START AND END OF YEAR:

The site facility manager shall arrange for the level of the bulk storage gas oil tanks to be checked at the beginning of the year (within the first week of the year) to quantify the initial gas oil stocks. The stock level showing on the Operations Report at the time of the stock survey will be recorded. The difference (if any) will be ascertained. The stock difference between start and end of the year will be determined using the results of these tank level records. An independent external contractor shall be employed annually to confirm the validity of the bulk tank instrumentation.

GAS OIL CONSUMPTION:

Consumption will be based on delivery invoices and difference in stock levels at the start and end of each year. Gas 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 (cubic meters) and converted to Tonnes using a factor of 0.86.

Delivery dockets are cross-checked with the invoices. Data for NCV and EF are taken from the latest National Inventory 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

The calculation is done on an annual basis. The oxidation factor is 1.0, in accordance with Annex II section 2.3 of the Commission Regulation No 2020/2085 which applies from 2021 and amending regulation 2018/2066

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 (Gas Oil) | S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29 | MD1 | Calculated Stock Changes/Purchases and Invoice Records | Variable | Litres | 7.5 | DUB69 Office |
| F1 (Gas Oil) | S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29 | MD2 | Level gauge | 0-1 | BAR (Converted to litres) | 7.5 | Top Up Tank |
| F1 (Gas Oil) | S1 | MD3 | Level gauge | 0-1 | Bar (Converted to Litres) | 7.5 | S1 Belly Tank |
| F1 (Gas Oil) | S2 | MD4 | Level gauge | 0-1 | Bar (Converted to Litres) | 7.5 | Belly Tank S2 |
| F1 (Gas Oil) | S3 | MD5 | Level gauge | 0-1 | Bar (Converted to Litres) | 7.5 | Belly Tank S5 |
| F1 (Gas Oil) | S4 | MD6 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S4 |
| F1 (Gas Oil) | S5 | MD7 | Level gauge | 0-1 | BAR - converted to litres | 7.5 | Belly Tank S5 |

| Source Stream Refs. | Emission Source Refs. | Measurement Device Ref. | Type of Measurement Device | Measurement Range | Metering Range Units | Specified Uncertainty (+/- %) | Location |
|---------------------|-----------------------|-------------------------|----------------------------|-------------------|---------------------------|-------------------------------|-----------------|
| F1 (Gas Oil) | S6 | MD8 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S6 |
| F1 (Gas Oil) | S7 | MD9 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S7 |
| F1 (Gas Oil) | S8 | MD10 | Level gauge | 0-1 | Bar (converted to litres) | 7.5 | Belly Tank (S9) |
| F1 (Gas Oil) | S9 | MD11 | Level gauge | 0-1 | Bar (converted to Litres) | 7.5 | Belly Tank S8 |
| F1 (Gas Oil) | S10 | MD12 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S10 |
| F1 (Gas Oil) | S11 | MD13 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | BELLY Tank S11 |
| F1 (Gas Oil) | S12 | MD14 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S12 |
| F1 (Gas Oil) | S13 | MD15 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S13 |
| F1 (Gas Oil) | S14 | MD16 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S14 |
| F1 (Gas Oil) | S15 | MD17 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S15 |
| F1 (Gas Oil) | S16 | MD18 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S16 |
| F1 (Gas Oil) | S17 | MD19 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S17 |
| F1 (Gas Oil) | S18 | MD20 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S18 |

| Source Stream Refs. | Emission Source Refs. | Measurement Device Ref. | Type of Measurement Device | Measurement Range | Metering Range Units | Specified Uncertainty (+/- %) | Location |
|---------------------|-----------------------|-------------------------|----------------------------|-------------------|---------------------------|-------------------------------|----------------|
| F1 (Gas Oil) | S19 | MD21 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S19 |
| F1 (Gas Oil) | S20 | MD22 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S20 |
| F1 (Gas Oil) | S22 | MD24 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S21 |
| F1 (Gas Oil) | S21 | MD23 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank 21 |
| F1 (Gas Oil) | S23 | MD25 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S23 |
| F1 (Gas Oil) | S24 | MD26 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S24 |
| F1 (Gas Oil) | S25 | MD27 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S25 |
| F1 (Gas Oil) | S26 | MD28 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S26 |
| F1 (Gas Oil) | S27 | MD29 | Level gauge | 0-1 | Bar - converted to litres | 7.5 | Belly Tank S27 |

| Source Stream Refs. | Measurement Device Ref. | Determination Method | Instrument Control Of | Under | Conditions Of Article 29(1) Satisfied | Invoices Used To Determine Amount Of Fuel Or Material | Trade Partner And Operator Independent |
|---------------------|-------------------------|----------------------|-----------------------|-------|---------------------------------------|---|--|
| F1 (Gas Oil) | MD1 | Batch | Trade partner | | Yes | Yes | Yes |
| F1 (Gas Oil) | MD2 | Continual | Operator | | N/A | N/A | N/A |
| F1 (Gas Oil) | MD3 | Continual | Operator | | N/A | N/A | N/A |
| F1 (Gas Oil) | MD4 | Continual | Operator | | N/A | N/A | N/A |

| 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 (Gas Oil) | MD5 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD6 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD7 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD8 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD9 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD10 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD11 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD12 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD13 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD14 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD15 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD16 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD17 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD18 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD19 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD20 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD21 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD22 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD24 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD23 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD25 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD26 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD27 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD28 | Continual | Operator | N/A | N/A | N/A |
| F1 (Gas Oil) | MD29 | Continual | Operator | N/A | N/A | N/A |

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) |
|---------------------|-----------------------|--------------------------|--|-----------------------------|----------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------------|--------------------------------|-------------------------------|---|--------------------------------|-----------------|-----------------------|--|---|
|---------------------|-----------------------|--------------------------|--|-----------------------------|----------------------------|----------------------------------|------------------------------|-----------------------------|-------------------------------|--------------------------------|-------------------------------|---|--------------------------------|-----------------|-----------------------|--|---|

| 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 (Gas Oil) | S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29 | MD1 | <7.5% | Standard | 1 | 2a | 2a | N/A | 1 | N/A | N/A | 500 | 100 | Major | Yes | n/a | n/a |

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

500

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 (Gas Oil) | S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29 | 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 (Gas Oil) | S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29 | NCV | National GHG Inventory | na |
| F1 (Gas Oil) | S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29 | EF | National GHG Inventory | na |
| F1 (Gas Oil) | S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12,S13,S14,S15,S16,S17,S18,S19,S20,S21,S22,S23,S24,S25,S26,S27,S28,S29 | OxF | MRR EU Commission Regulation No. 2018/2066 and amending regulation 2020/2085 as updated. | 1 |

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 |
|-----------------------|--|
| Environmental Manager | <p>Ensures ADSIL is compliant with all applicable GHG regulatory requirements. The Environmental Manager's role includes the identification of source data, validation of data, making the necessary calculations of emissions, forwarding the required information to the Climate Change Unit of the</p> <p>EPA and having the data independently verified by an ISO 14065 accredited Verification Body. The Environmental Manager is supported in this role by the Site Facility Manager (FM). The FM's responsibility includes the management and supervision of site staff and the FM or his /her designee allocated duties involving gas oil offloading operations - including recording of deliveries to a technical member of the site engineering staff. All staff involved in this work are either engineers or technicians. The site IT system also has an automated gas oil stock level usage functionality to ensure ongoing data acquisition and recording.</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 | Procedure for Collection of Fuelling Events and Records |
| Reference for procedure | SOP at Section 4 on Roles and Responsibilities |
| Diagram reference | NA |
| Brief description of procedure. The description should cover the essential parameters and operations performed | Responsibilities for GHG management are assigned by the Environmental Manager. Implementation of GHG related activities on site is under the control of the Site FM. The Environmental Manager ensures that ADSIL is compliant with all applicable GHG regulatory requirements. The Environmental Manager's role includes 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. |
| | The site works related to the recording of GHG data such as fuel delivery activities and gas oil consumption is managed and controlled by the Site Facility Manager. The Facility Manager delegates field operational work to his/her direct reports in a line function. The ADSIL Environmental Manager is a staff position, responsible for providing guidance and regulatory advice to the Facility Manager. Competence is managed by virtue of the education, internal training and experience of the team. Employees participate in annual performance appraisals which include a discussion of the key-role performance indicators - this includes environmental compliance. |
| Post or department responsible for the procedure and for any data generated | Environmental Manager |
| Location where records are kept | On the internal IT system |
| Name of IT system used | NA |
| List of EN or other standards applied | NA |

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:

| | |
|---|---|
| <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>Procedure for Collection of Fuelling Events and Records SOP, Section 3 - Monitoring Plan Appropriateness</p> <p>NA</p> <p>The procedure ensures that a regular evaluation of the monitoring plan's appropriateness is undertaken to assess 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, ensuring that all relevant changes in the nature and functioning of the installation is 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 emissions source, and assessment of potential measures for improvement of the monitoring methodology applied.</p> <p>There shall be specific duties and work plans which specify:-</p> <ul style="list-style-type: none"> - The plan is in conformance with the Monitoring and Reporting Regulations or MRR, - regular inspection of fuel quality and instrument calibrations, process and justification for determining and monitoring organisational 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 processes and tools used for collecting, processing and reporting GHG information; - methods for assessing the effect of changes to other related systems; - procedures for authorising, approving and documenting changes to information systems, and - the information technology system used for data flow activities is tested and controlled, including access control, back-up, recovery and security assessment of potential improvements and optimisation to the quantification and monitoring methodologies. |
| <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>Environmental Manager</p> <p>On the internal IT system</p> <p>NA</p> |

List of EN or other standards applied NA

aa. Data Flow Activities

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

| | |
|--|---|
| <p>Title of procedure Reference for procedure</p> | <p>Procedure for Collection of Fuelling Events and Records SOP Section 4 Subsections 8 through 17 on Data Flow - Flow activities</p> |
| <p>Diagram reference Brief description of procedure. The description should cover the essential parameters and operations performed</p> | <p>N/A This procedures specifies:- 1 - the 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 emissions 4 - relevant electronic data processing and storage systems used as well as the interaction between such IT systems and other inputs including manual input 5 - how outputs of data flow activities are recorded and logged</p> |
| <p>Post or department responsible for the procedure and for any data generated Location where records are kept Name of IT system used List of EN or other standards applied List of primary data sources</p> | <p>Environmental Manager On site internal IT system NA NA 1 - Data generated by the gas oil/diesel fuel supplier metered delivery tankers. 2 - Data from the onsite fuel tank level indicators. 3 - Emission and oxidation factors as issued and updated by the Irish EPA.</p> |
| <p>Description of the relevant processing steps for each specific data flow activity.</p> | <p>Monitoring data is collated with the facility's existing inventory process for budgetary control and fuel purchases. 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 tank meter. A record of each delivery as well as the fuel tank levels is recorded by the Facility Manager or delegate and these data are recorded in the site GHG</p> |
| <p>Identify each step in the data flow and include the formulas and data used to determine emissions from the primary data. Include details of any relevant electronic data processing and storage systems and other inputs (including manual inputs) and confirm how outputs of data flow activities are recorded</p> | <p>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 tank meter. A record of each delivery as well as the fuel tank levels is recorded by the Facility Manager or delegate and these data are recorded in the site GHG</p> |

IMS.

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.

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.

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:

| | |
|---|--|
| <p>Title of procedure Reference for procedure Diagram reference Brief description of procedure. The description should cover the essential parameters and operations performed</p> | <p>Procedure for Collection of Fuelling Events and Records SOP Section 5 and Appendix 3 na The initial risk assessment studied the inherent risk - based on the complexity of the technology. However as these generator sets are common practice and well understood the Inherent Risk is classified as low. The Control Risk (the risk that ADSIL 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 manufacturers recommendations.</p> |
| <p>Post or department responsible for the procedure and for any data generated</p> | <p>Environmental Manager and Site Facility Manager</p> |
| <p>Location where records are kept</p> | <p>On the internal IT system</p> |
| <p>Name of IT system used</p> | <p>na</p> |
| <p>List of EN or other standards applied</p> | <p>na</p> |

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 | Procedure for Collection of Fuelling Events and Records |
| Reference for procedure | SOP Section 4, Subsections 5,6 and 7 |
| 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 by an external instrumentation company. All calibration work shall be carried out by trained and qualified technicians as part of external instrumentation company's quality control scheme. The calibration records shall be examined by the Facility Manager (or designee) as a Quality Assurance measure to cross check that QC procedures are implemented appropriately. The fuel delivery tankers are fitted with flow meters which are subject to national metrological controls. Calibration records are obtained for the gas oil delivery trucks and reviewed upon receipt. |
| Post or department responsible for the procedure and for any data generated | Site Facility Manager or designate |
| Location where records are kept | On the internal IT system |
| Name of IT system used | na |
| List of EN or other standards applied | na |

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 | Procedure for Collection of Fuelling Events and Records |
| Reference for procedure | SOP Section 4, Subsection 27 |
| Diagram reference | na |
| 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: <ul style="list-style-type: none"> a) tested and under management control; b) access to the IT system is controlled through individual unique passwords and log-ins; c) individual log-in control provides complete information security; d) all data is backed up on the company servers and redundant servers and e) methods of identifying measurement technologies and data sources. |

| | |
|---|--------------------|
| Post or department responsible for the procedure and for any data generated | Facility Manager |
| Location where records are kept | Internal IT system |
| Name of IT system used | NA |
| List of EN or other standards applied | NA |

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 | Procedure for Collection of Fuelling Events and Records |
| Reference for procedure | SOP Section 4; Subsection 21 |
| Diagram reference | NA |
| Brief description of procedure. The description should cover the essential parameters and operations performed | The procedure requires that ADSIL 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 for completeness;
- d) methods of identifying measurements differences between current and previous years;
- e) includes a cross check between fuel and delivery invoices and actual consumption rate of combustion units and oil stock levels;
- f) the criteria for identification and addressing anomalous data.

| | |
|---|-----------------------|
| Post or department responsible for the procedure and for any data generated | Environmental Manager |
| Location where records are kept | Internal IT system |
| Name of IT system used | na |
| List of EN or other standards applied | na |

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>Procedure for Collection of Fuelling Events and Records SOP Section 4; Subsections 22 and 23</p> <p>na</p> <p>In accordance with the GHG permit (typically condition 2.5) the Environmental Manager shall notify the Agency in writing within three (3) days of becoming aware of any factors which may prevent compliance with the conditions of this permit, such as any capacity expansion or change to the approved monitoring plan. Where it is, for technical reasons only, 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, ADSIL shall apply the highest achievable tier until the conditions for application of the tier approved in the monitoring plan have been restored. ADSIL shall take all necessary measures to allow the prompt restoration of the tier in the approved monitoring plan. ADSIL shall notify the temporary change to the monitoring methodology without undue delay to the Agency specifying: (i) The reasons for the deviation from the approved tier; (ii) a detailed description of the interim monitoring methodology applied by ADSIL - in order to determine the emissions until the normal or approved conditions for the application of the tier in the monitoring plan have been restored; (iii) the measures ADSIL 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.</p> |
| <p>Post or department responsible for the procedure and for any data generated</p> | <p>Environmental Manager</p> |
| <p>Location where records are kept</p> | <p>Internal IT System</p> |
| <p>Name of IT system used</p> | <p>NA</p> |
| <p>List of EN or other standards applied</p> | <p>NA</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.

| | |
|---|---|
| <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>Procedure for Collection of Fuelling Events and Records SOP Section 4; Subsection 28</p> <p>N/A</p> <p>This procedure defines how the installation's management controls outsourced activities. The prime control mechanism is through a Service Level Agreement which defines precise controls, which the contractor/vendor shall comply with. Each outsourced activity will have a mission specific set of criteria with which the contractor shall comply with. Calibration records are submitted by the vendor for the gas oil delivery trucks and reviewed by ADSIL</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>Environmental Manager. For GHG verification the installation shall only appoint those Verification bodies which are ISO 14065 and accredited in accordance with AVR Regulations and are on the Accreditation Body list of approved verifiers.</p> <p>Environmental Manager</p> <p>Internal IT SYSTEM</p> <p>NA</p> <p>NA</p> |
|--|---|

hh. Record Keeping and Documentation

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

| | |
|---|---|
| <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>Procedure for Collection of Fuelling Events and Records SOP Section 4; Subsections 24,25 and 26</p> <p>NA</p> <p>The installation shall establish and maintain procedures for document retention and record keeping. This 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.</p> |
|---|---|

ADSIL 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 organisations GHG information management procedures for document retention and record keeping.

Controlled documents are:-

- 1 - The monitoring plan approved by the EPA
- 2 - 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
- 3 - 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.
- 4 - All written procedures referred to in this monitoring plan, including the procedures for data flow

activities and the procedures for control activities.

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

6 - Documentation showing the organisation's allocation of responsibilities in connection to the monitoring and reporting of GHG.

7 - The risk assessment performed by the organisation.

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 the organisation and a copy of the annual independent verification report/statement.

| | |
|---|-----------------------|
| Post or department responsible for the procedure and for any data generated | Environmental Manager |
| Location where records are kept | Internal IT System |
| Name of IT system used | NA |
| List of EN or other standards applied | NA |

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? 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.

| | |
|---|---|
| <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>Procedure for Collection of Fuelling Events and Records SOP Section 7</p> <p>NA</p> <p>In compliance with the GHG Permit (typically Condition 2.1) ADSIL shall make 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:</p> <p>1 - the nature or functioning of the installation;</p> <p>2 - the capacity of the installation as detailed in the permit;</p> <p>3 - the fuels used at the installation;</p> <p>4 - the range of activities to be carried out at the installation that may require updating of the GHG permit shall not be carried out or commenced without prior notice to and without prior written agreement of the Environmental Protection Agency. This conditions relates to new generators, fire pumps, oil tanks or other combustion plant. No changes shall be made without prior EPA approval. For any change in operations all related documents for new generators and tanks must be relayed to the Environmental Manager at least 30 days prior to arriving onsite. The Environmental Manager will liaise with the EPA. Drawings of where the tanks or generators are to be located for each site must be forwarded also. It is the responsibility of the Site Principal Engineer to supply these</p> |
|---|---|

items.

The Environmental Manager will meet with Design Engineering and Construction regularly to record and plan for any changes to record and plan for any changes which may impact generator capacity and onsite fuel storage. Activities are not limited to generators and fuel tanks, but may include anything relevant under Emissions Trading Regulations and Monitoring and Reporting Regulation.
Environmental Manager

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

Location where records are kept

Name of IT system used

Internal IT system

NA

13. Abbreviations

II. Abbreviations Acronyms or definitions

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

| Abbreviation | Definition |
|--------------|---|
| EPA | Environmental Protection Agency |
| GHG | Greenhouse Gas |
| EP | Emission Point |
| ADSIL | Amazon Data Services Ireland Limited |
| MRR | (Commission Regulation on) Monitoring and Reporting of Greenhouse Gas Emissions |
| FM | Facilities Manager |

14. Additional Information

Any other information:

| Attachment | Description |
|---------------------------------------|------------------------------|
| Belly Tank Level Gauge.pdf | Metering details Belly Tank |
| DUB069 Offloader Tank Level Gauge.pdf | Metering details Top-up Tank |

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: true

The table below identifies which (if any) sections of the form the operator considers should be treated as commercially confidential and explains why disclosure of this information would cause an adverse effect to commercial interests.

| Section | Justification |
|-------------------------|---|
| Installation Activities | <p>The individual generator specifications and data sheets are not generally known or accessible to parties outside of ADSIL. This includes engineering specifications of the generators. Because this information may be useful to competitors, it has commercial value. Additionally ADSIL request that the enclosed site layout drawings be retained as confidential (primarily for security reasons). Therefore we request that EPA refrain from disclosing this information when making other information presented in this application available to the public.</p> |
| Emissions Details | <p>The individual generator specifications and data sheets are not generally known or accessible to</p> |

| Section | Justification |
|----------------|---|
| | <p>parties outside of ADSIL. This includes engineering specifications of the generators. Because this</p> <p>information may be useful to competitors, it has commercial value. Additionally ADSIL request that the enclosed site layout drawings be retained as confidential (primarily for security reasons). Therefore we request that EPA refrain from disclosing this information when making other information presented in this application available to the public.</p> |

END of Appendix I.