EPA Application Form

7.4.1 - Emissions to Atmosphere - Main and Fugitive

Emissions - Attachment

Organisation Name:

Application I.D.:

LA001661

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Amendments to this Application Form Attachment

Version No.	Date	Amendment since previous version	Reason
V.1.0	July 2017	N/A	Online application form attachment
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EMISSIONS TO ATMOSPHERE

Emissions to air/atmosphere include the following:

Main Emissions

Main emissions include all emissions of environmental significance. Where a **mass emission threshold** is specified in a BAT document (BAT Conclusions, National BAT note or BREF), emissions which exceed this threshold prior to abatement are regarded as significant, i.e., 'main emissions'. (In some cases emissions below the threshold can still be significant and qualify as Main Emissions).

Minor Emissions

Emissions below the mass emission threshold <u>may</u> be considered minor emissions and therefore do not generally need to be specifically controlled by the conditions or schedules of the licence (i.e., setting of ELVs, abatement control measures, or monitoring requirements). Emissions may also be deemed minor by virtue of their source/nature (e.g., laboratory fume hoods, workspace extractions, passive vents from storage tanks, HVAC exhausts), or composition (e.g., water vapour emissions).

For combustion plant such as boilers, these can be considered minor where the sate thermal input is < 1MW where natural gas is the main fuel, and for liquid and solid fuels where its < 250kW.

In completing the separate '*Emissions to Atmosphere - Minor and Potential*' attachment for minor emissions, the applicant should supply sufficient information to justify the determination of the emission as prinor. Notwithstanding this guidance, the Agency may consider any emission to be significant (i.e., a main emission) on the basis of environmental impact.

Fugitive Emissions

Fugitive emissions include emissions from non-point sources and diffuse sources.

Potential Emissions

These are emissions which only operate under abnormal process conditions. Typical examples include bursting discs, pressure relief valves, and emergency generators. Bypasses and flares may also fall within this category, depending on how they are operated or designed to operate. Although the Agency does not normally set controls in licences for potential emissions, it may do so for the purposes of environmental protection.

This attachment collects information on <u>main</u> and <u>fugitive</u> emissions to atmosphere. Waste gas means the final gaseous emission from a stack or abatement equipment.

For minor and potential emissions to atmosphere, complete the separate '*Emissions to Atmosphere - Minor and Potential'* attachment.



Main Emissions to Atmosphere - Waste Gas Emission Point Details - one row per emission point Not Applicable

Complete the following table with summary details for all main emission points to atmosphere.

(Guidance on completing the table is included in Note i at the end of this attachment)

The applicant should address in particular any emissions which may contain the principal polluting substances listed in the First Schedule of Environmental Protection Agency (Integrated Pollution Control) (Licensing) Regulations 2013/ (Industrial Emissions)(Licensing) Regulations 2013.

Please note that the determination of any emission limit values and monitoring requirements in a proposed licence if granted will be based on the information supplied hereunder.

Emission	Emission Point Grid Ref.				Typical Days	Measures to reduce /minimise / prevent emissions (list techniques) ¹	Source of Waste Gases	Minimum Discharge	Reference Conditions			
Point Code	Easting ³	Northing ⁴	Usage/ Year	Where EQS considerations require measures	offy, any off 2	Height Above Ground (m)	Pressure ⁵	Temp. 6	% Oxygen 7	Moisture ⁸		
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¹ Detailed descriptions and schematics of all abatement systems should be included in the Operational Report (Tab 4.8 – '*Reports*').

⁸ Options: Wet <u>or</u> Dry.

² Options: Boiler, Gas Turbine, Incineration, Co-Incineration, CHP, Kiln, Engine, Indirect drying activity (e.g. milk drying), Other Combustion activity (e.g., oven), Distillation/Chemical reaction, Solvent based coating activity, Other coating activity (provide description), Composting Tunnels, General extraction from buildings <u>or</u> Other (provide a description if 'Other' is selected).

³ Six Digit GPS Irish National Grid Reference.

⁴ Six Digit GPS Irish National Grid Reference.

⁵ **Options:** 101.325kPa <u>or</u> No correction.

⁶ **Options:** 273.15K or No correction.

⁷ **Options:** 3%, 6%, 10%, 11%, 15%, 18% <u>or</u> No correction.



Emission	Emission Point Grid Ref.		Typical Days	Measures to reduce /minimise / prevent emissions (list techniques) ¹	Source of Waste Gases	Minimum Discharge		Reference	Conditions	
Point Code	Easting ³	Northing ⁴	Usage/ Year	Jsage/ Where EQS considerations require measures 2		Height Above Ground (m)	Pressure ⁵	Temp. 6	% Oxygen 7	Moisture ⁸
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*add rows to the table as necessary



Emission Points from Combustion, Incineration or Co-incineration Sources Only NOT APPLICABLE

Complete the table below for each emission point to atmosphere from a combustion source, waste incineration or co-incineration plant

Emission Point Code	Primary Fuel Type ⁹ (where applicable)	Secondary Fuel Type ¹⁰ (where applicable)	LCP Plant Reference (where applicable)	Waste incineration or co- incineration plant reference (where applicable)
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⁹ Options: Coal, Lignite, Heavy Fuel Oil, Other Fuel Oil, Peat, Natural Gas, Biogas, Solid Biomass, Waste, Gas Oil, Other or None

¹⁰ **Options:** Coal, Lignite, Heavy Fuel Oil, Other Fuel Oil, Peat, Natural Gas, Biogas, Solid Biomass, Waste, Gas Oil, Other <u>or</u> None



Emission Points with Solvent Emissions Only

Complete the table below for each emission point associated with a solvent activity

Emission Point Code	Are specific Hazardous Substances ¹¹ Emitted?	Mass Flow of Emitted Hazardous Substances (g/hour)	Halogenated VOCs ¹² Emitted?	Mass Flow of Emitted Halogenated VOCs (g/hour)
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¹¹ Emissions of volatile organic compounds referred to in Article 58 (Substances or mixtures which, because of their content of volatile organic compounds classified as carcinogens, mutagens, or toxic to reproduction under Regulation (EC) No. 1272/2008, are assigned or need to carry the hazard statements H340, H350,H350i, H360D or H360F) of the Industrial Emissions Directive.

¹² Halogenated volatile organic compounds which are assigned or need to carry the hazard statements H341 or H351.



Waste Gas Emissions Monitoring Points NOT APPLICABLE

Complete the table below for each emission point, by entering the Emission Point Code, the associated Monitoring Point Code and the grid reference of the Monitoring Point.

Emission Point Code	Monitoring Point Code ¹³	Monitoring Point Grid Reference				
Emission Point Code	Monitoring Point Code	Easting ¹⁴	Northing ¹⁵			
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¹³ To include monitoring and sampling points

¹⁴ Six Digit GPS Irish National Grid Reference

¹⁵ Six Digit GPS Irish National Grid Reference



Waste Gas - Abatement /Treatment Control NOT APPLICABLE

Complete the table below for each emission point with an abatement/treatment system (one table per emission point)

Emission Point Code: _____

Control ¹⁶ parameter	Monitoring to be carried out ¹⁷	Additional notes (where relevant)
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¹⁶ List the operating parameters of the treatment/abatement system which control its function.

¹⁷ List the monitoring of the control parameter to be carried out.



Waste Gas Emissions Not Applicable

Complete the table below for all main emission points to atmosphere (include one row for each identified parameter)

Emission	Parameter	Monitoring Point Code	Proposed Emission Limits ¹⁸				18	BAT Associated	EPA Guidance	Sampling / Monitor	-
Point Code			Max. Hourly	Max. Daily 20	Average Month 21	Average Annual 22	How was the Proposed Emission Limit Derived?	Emission Range (if applicable)	Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ²³	Compliant with BAT Monitoring Requirement?
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* For continuous monitoring 'EN15267 approved CEMS' is the standard method. For periodic monitoring please refer to the EPA guidance document 'AG2 Index of Preferred Methods' linked above *add rows to the table as necessary

- ¹⁹ Specify the proposed limit <u>and the units.</u>
- ²⁰ Specify the proposed limit <u>and the units.</u>
- ²¹ Specify the proposed limit <u>and the units.</u>
- ²² Specify the proposed limit <u>and the units.</u>

¹⁸ For emissions outside the BAT Conclusion, BREF or BAT guidance limit, a full evaluation of the existing abatement/treatment system must be provided. A planned programme of improvement towards meeting upgraded standards is required. This should highlight specific goals and a time scale, together with options for modification, upgrading or replacement as required to bring emissions within the limits set out in the BAT Conclusion(s), BREF(s) or BAT guidance note(s). These notes can be found on the EPA website at <u>www.epa.ie</u>.

²³ For continuous monitoring 'EN15267 approved CEMS' is the standard method. For periodic monitoring please refer to the EPA guidance document <u>'AG2 Index of Preferred</u> <u>Methods'</u>.



Minor and/or Potential Emissions to Atmosphere ²⁴

Are there any minor or potential emission point(s) to atmosphere at the installation/facility?	No
(Yes/No)	

If 'Yes' complete and upload the *Emissions to Atmosphere – Minor and Potential Emissions* template with details of minor and potential emissions (select Document Type: '<u>Minor - Potential Emissions</u>' in the application form)

Emissions to Atmosphere - Minor - Potential Emissions file name:



²⁴ Refer to page 3 for guidance on what constitutes a minor or potential emission.



Fugitive Emission to Atmosphere

Fugitive emissions must be controlled by way of appropriate controls and techniques to minimise emissions. (Additional information on fugitive emission is included in Note ii at the end of this attachment)

Are there any sources of fugitive emissions at the installation/facility?²⁵ (Yes/No)

Yes

Emission Type Type of Maximum Fugitive **Applicable? Description of fugitive emissions source(s) Descriptor/Location** Units Level Emission (Yes/No) Waste processing inside building and vehicle movement on open paved yards $mq/m^2/day$ Dust deposition Dust Yes 350 oses only any **VOC**²⁶ % of solvent input No tion purpt at the nearest European ug/m³ Ammonia No Site at the nearest European kgN/ha/yr Nitrogen No Site Recyclables contaminated with food waste **Odour Units** Odour Yes Consent

If 'Yes' provide summary details of the fugitive emissions in the table below:

²⁵ For waste activities, dust and odour emissions should be considered and described in the table below where applicable.

²⁶ In relation to activities listed in Chapter V (for installations using Organic Solvents) of the Industrial Emissions Directive (2010/75/EU):

⁻ specify how the requirements in relation to fugitive emissions will be met.

Provide details of the techniques to be used to reduce / minimise / prevent fugitive emissions in text bow below

FHR implements the control measures specified in the EPA licence that are designed to ensure waste activities do not give rise either to adverse impacts on air quality, or nuisance and impairment of amenity outside the site boundary.

All waste reception, processing and storage will, with the exception of the external storage of baled metal wastes and the residual waste trailer, continue to be carried out inside the waste processing building. The roller shutter doors are typically only opened to allow vehicles to enter and exit the building. The building floors and the paved open yards are regularly cleaned using the FHR's mechanical road sweeper.

Complete the table for each emission point having regard to the guidance hereunder.

The following convention should be observed when labelling emission points:

Boiler Emissions

Main Emissions

each emission point having regard to the guidance hereunder. on should be observed when labelling emission points: A1-1, A1-2, A1-3,...etc. A2-1, A2-2, A2-3,...etc. A3-1, A3-2, A3-3,...etc. (NOTE: Minor emission points are to be included in the '*Emissions to Atmosphere - Minor and Potential*' Minor Emissions attachment)

Potential Emissions A4-1, A4-2, A4-3,...etc. (NOTE: Potential emission points are to be included in the 'Emissions to Atmosphere - Minor and Potential' attachment)

A National Grid Reference (12 digit, 6E, 6N) must be provided for each emission point.

Measures are usually required to reduce, minimise or prevent emissions from occurring. They may involve the application of a single technique or a combination of techniques including process integrated, recovery, abatement and treatment techniques. List all techniques proposed/employed. Technique(s) employed must comply with BAT. Highlight additional measures required for the purposes of protecting the environment i.e. AQS considerations. The measures or techniques to be taken must be capable of complying with the proposed/known emission level(s).

The measures required shall be informed by the following:

1. BAT techniques with BAT-AEL

2. BAT techniques without BAT-AEL

- 3. Stricter measures/techniques than BAT (due to AQS)
- 4. BAT determined by competent authority in consultation with the applicant
- 5. Measures to minimise pollution over long distances or in the territory of other states.

6. Emerging techniques

7. Less strict measures than BAT (due to derogation)

8. Other measures



Select from the drop down list the source of the emission as it helps explain the nature of the emission. Particular attention should be paid to ensuring that emissions data (volumetric flow and pollutant concentrations) are presented at the required reference conditions for oxygen, temperature, pressure and moisture.

Note ii Fugitive emissions include the following:

- Dust from area sources such as a guarry.
- Odour from volume sources such as a pig unit, waste water treatment plant, waste handling etc.
- VOCs from processes using solvent not captured in waste gases.