

EPA Application Form

7.4.1 Emissions to Atmosphere - Main and Fugitive Emissions - Attachment

Organisation Name:

RED MILLS

Application I.D.:

LA001443

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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 may 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 rated 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 minor. 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 main and fugitive 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.

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Main Emissions to Atmosphere - Waste Gas Emission Point Details - one row per emission point

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 Point Code	Emission Point Grid Ref.		Typical Days Usage /Year	Measures to reduce /minimise / prevent emissions (list techniques) ¹ <i>Where EQS considerations require measures stricter than BAT, highlight these measures in bold</i>	Source of Waste Gases ²	Minimum Discharge Height Above Ground (m)	Reference Conditions			
	Easting ³	Northing ⁴					Pressure ⁵	Temp. ⁶	% Oxygen ⁷	Moisture ⁸
A1-1	667954	654321	365	Boiler Maintenance Programme to ensure Efficacy	Boiler	25	101.3	273.15	3	Yes
A1-2	667951	654325	When Required	Boiler Maintenance Programme to ensure Efficacy	Back-up Boiler	25	101.3	273.15	3	Yes

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¹ Detailed descriptions and schematics of all abatement systems should be included in the Operational Report (Tab 4.8 – ‘Reports’).

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 **or** 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 **or** No correction.

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

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

⁸ **Options:** Wet **or** Dry.



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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage /Year	Measures to reduce /minimise / prevent emissions (list techniques) ¹ <i>Where EQS considerations require measures stricter than BAT, highlight these measures in bold</i>	Source of Waste Gases ²	Minimum Discharge Height Above Ground (m)	Reference Conditions			
	Easting ³	Northing ⁴					Pressure ⁵	Temp. ⁶	% Oxygen ⁷	Moisture ⁸
A2-1	667960	654238	365	Cyclone	Cuber 1	20	N/A	N/A	N/A	N/A
A2-2	667967	654243	365	Cyclone	Cuber 2	20	N/A	N/A	N/A	N/A
A2-3	667975	654247	365	Cyclone	Cuber 3	17	N/A	N/A	N/A	N/A
A2-4	667948	654266	365	Cyclone & Socks	Flaker 1	22	N/A	N/A	N/A	N/A
A2-5	667954	654273	365	Cyclone & Socks	Flaker 1	20	N/A	N/A	N/A	N/A
A2-6	667951	654259	365	Cyclone & Socks	Flaker 2	20	N/A	N/A	N/A	N/A
A2-7	667961	654262	365	Cyclone& Socks	Flaker 2	25	N/A	N/A	N/A	N/A
A2-8	667944	654254	365	Cyclone	Flaker Cyclone	25	N/A	N/A	N/A	N/A
A2-9	667954	654243	365	Cyclone	Flaker Cyclone	25	N/A	N/A	N/A	N/A
A2-10	667919	654292	365	Cyclone	Soya Grinder Emission	5	N/A	N/A	N/A	N/A
A2-11	667929	654271	365	Cyclone	Soya Extruder Emission	25	N/A	N/A	N/A	N/A
A2-12	667943	654277	365	Cyclone	Soya Cyclone – Bin Filling	25	N/A	N/A	N/A	N/A
A2-13	667949	654280	365	Sock Filter	Grinder 4 Dust Extraction	15	N/A	N/A	N/A	N/A
A2-14	667950	654213	365	Sock Filter	Main Grain Intake	15	N/A	N/A	N/A	N/A
A2-15	667962	654306	365	Cyclone	Extruder Vent	15	N/A	N/A	N/A	N/A
A2-16	667899	654288	365	Cyclone	Dryer 2	20	N/A	N/A	N/A	N/A
A2-17	667902	654299	365	Cyclone	Dryer 2	18	N/A	N/A	N/A	N/A
A2-18	667964	654288	365	Cyclone	Dryer 5	15	N/A	N/A	N/A	N/A
A2-19	667975	654441	365	Cyclone	Seed Plant	15	N/A	N/A	N/A	N/A

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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage /Year	Measures to reduce /minimise / prevent emissions (list techniques) ¹ <i>Where EQS considerations require measures stricter than BAT, highlight these measures in bold</i>	Source of Waste Gases ²	Minimum Discharge Height Above Ground (m)	Reference Conditions			
	Easting ³	Northing ⁴					Pressure ⁵	Temp. ⁶	% Oxygen ⁷	Moisture ⁸
A2-20	667983	654435	365	Cyclone	Seed Plant	15	N/A	N/A	N/A	N/A
A2-21	667969	654419	365	Cyclone	Seed Plant	15	N/A	N/A	N/A	N/A
A2-22	667977	654415	365	Cyclone	Seed Plant	15	N/A	N/A	N/A	N/A
A2-23	667991	654259	365	Cyclone	Packer 2	5	N/A	N/A	N/A	N/A

*add rows to the table as necessary

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Emission Points from Combustion, Incineration or Co-incineration Sources Only

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)
A1-1	Fuel Oil	N/A	N/A	N/A
A1-2	Fuel Oil	N/A	N/A	N/A

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*add rows to the table as necessary

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 or None



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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)
<div style="border: 2px solid black; padding: 10px; display: inline-block;">N/A</div>				

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*add rows to the table as necessary

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.

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Waste Gas Emissions Monitoring Points

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	
		Easting ¹⁴	Northing ¹⁵
A1-1	A1-1	667954	654321
A1-2	A1-2	667951	654325

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*add rows to the table as necessary

¹³ To include monitoring and sampling points
¹⁴ Six Digit GPS Irish National Grid Reference
¹⁵ Six Digit GPS Irish National Grid Reference

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Waste Gas - Abatement /Treatment Control

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

Emission Point Code: A2-1

Control ¹⁶ parameter	Monitoring to be carried out ¹⁷	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-2

Control ¹⁸ parameter	Monitoring to be carried out ¹⁹	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-3

Control ²⁰ parameter	Monitoring to be carried out ²¹	Additional notes (where relevant)
Cyclone	Particulates	

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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.

¹⁸ List the operating parameters of the treatment/abatement system which control its function.

¹⁹ List the monitoring of the control parameter to be carried out.

²⁰ List the operating parameters of the treatment/abatement system which control its function.

²¹ List the monitoring of the control parameter to be carried out.

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Emission Point Code: A2-4

Control ²² parameter	Monitoring to be carried out ²³	Additional notes (where relevant)
Cyclone Socks	Particulates	

Emission Point Code: A2-5

Control ²⁴ parameter	Monitoring to be carried out ²⁵	Additional notes (where relevant)
Cyclone Socks	Particulates	

Emission Point Code: A2-6

Control ²⁶ parameter	Monitoring to be carried out ²⁷	Additional notes (where relevant)
Cyclone Socks	Particulates	

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²² List the operating parameters of the treatment/abatement system which control its function.

²³ List the monitoring of the control parameter to be carried out.

²⁴ List the operating parameters of the treatment/abatement system which control its function.

²⁵ List the monitoring of the control parameter to be carried out.

²⁶ List the operating parameters of the treatment/abatement system which control its function.

²⁷ List the monitoring of the control parameter to be carried out.

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Emission Point Code: A2-7

Control ²⁸ parameter	Monitoring to be carried out ²⁹	Additional notes (where relevant)
Cyclone Socks	Particulates	

Emission Point Code: A2-8

Control ³⁰ parameter	Monitoring to be carried out ³¹	Additional notes (where relevant)
Cyclone	Particulates	

*add rows to the table as necessary

Emission Point Code: A2-9

Control ³² parameter	Monitoring to be carried out ³³	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-10

Control ³⁴ parameter	Monitoring to be carried out ³⁵	Additional notes (where relevant)
Cyclone	Particulates	

²⁸ List the operating parameters of the treatment/abatement system which control its function.

²⁹ List the monitoring of the control parameter to be carried out.

³⁰ List the operating parameters of the treatment/abatement system which control its function.

³¹ List the monitoring of the control parameter to be carried out.

³² List the operating parameters of the treatment/abatement system which control its function.

³³ List the monitoring of the control parameter to be carried out.

³⁴ List the operating parameters of the treatment/abatement system which control its function.

³⁵ List the monitoring of the control parameter to be carried out.

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Emission Point Code: A2-11

Control ³⁶ parameter	Monitoring to be carried out ³⁷	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-12

Control ³⁸ parameter	Monitoring to be carried out ³⁹	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-13

Control ⁴⁰ parameter	Monitoring to be carried out ⁴¹	Additional notes (where relevant)
Sock Filter	Particulates	

Emission Point Code: A2-14

Control ⁴² parameter	Monitoring to be carried out ⁴³	Additional notes (where relevant)
Sock Filter	Particulates	

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³⁶ List the operating parameters of the treatment/abatement system which control its function.

³⁷ List the monitoring of the control parameter to be carried out.

³⁸ List the operating parameters of the treatment/abatement system which control its function.

³⁹ List the monitoring of the control parameter to be carried out.

⁴⁰ List the operating parameters of the treatment/abatement system which control its function.

⁴¹ List the monitoring of the control parameter to be carried out.

⁴² List the operating parameters of the treatment/abatement system which control its function.

⁴³ List the monitoring of the control parameter to be carried out.



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Emission Point Code: A2-15

Control ⁴⁴ parameter	Monitoring to be carried out ⁴⁵	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-16

Control ⁴⁶ parameter	Monitoring to be carried out ⁴⁷	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-17

Control ⁴⁸ parameter	Monitoring to be carried out ⁴⁹	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-18

Control ⁵⁰ parameter	Monitoring to be carried out ⁵¹	Additional notes (where relevant)
Cyclone	Particulates	

⁴⁴ List the operating parameters of the treatment/abatement system which control its function.

⁴⁵ List the monitoring of the control parameter to be carried out.

⁴⁶ List the operating parameters of the treatment/abatement system which control its function.

⁴⁷ List the monitoring of the control parameter to be carried out.

⁴⁸ List the operating parameters of the treatment/abatement system which control its function.

⁴⁹ List the monitoring of the control parameter to be carried out.

⁵⁰ List the operating parameters of the treatment/abatement system which control its function.

⁵¹ List the monitoring of the control parameter to be carried out.

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Emission Point Code: A2-19

Control ⁵² parameter	Monitoring to be carried out ⁵³	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-20

Control ⁵⁴ parameter	Monitoring to be carried out ⁵⁵	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-21

Control ⁵⁶ parameter	Monitoring to be carried out ⁵⁷	Additional notes (where relevant)
Cyclone	Particulates	

Emission Point Code: A2-22

Control ⁵⁸ parameter	Monitoring to be carried out ⁵⁹	Additional notes (where relevant)
Cyclone	Particulates	

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⁵² List the operating parameters of the treatment/abatement system which control its function.

⁵³ List the monitoring of the control parameter to be carried out.

⁵⁴ List the operating parameters of the treatment/abatement system which control its function.

⁵⁵ List the monitoring of the control parameter to be carried out.

⁵⁶ List the operating parameters of the treatment/abatement system which control its function.

⁵⁷ List the monitoring of the control parameter to be carried out.

⁵⁸ List the operating parameters of the treatment/abatement system which control its function.

⁵⁹ List the monitoring of the control parameter to be carried out.

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Emission Point Code: A2-23

Control ⁶⁰ parameter	Monitoring to be carried out ⁶¹	Additional notes (where relevant)
Cyclone	Particulates	

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⁶⁰ List the operating parameters of the treatment/abatement system which control its function.

⁶¹ List the monitoring of the control parameter to be carried out.

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Waste Gas Emissions

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

Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ⁶²					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ⁶³	Max. Daily ⁶⁴	Average Month ⁶⁵	Average Annual ⁶⁶	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ⁶⁷	Compliant with BAT Monitoring Requirement?
A1-1	NOx	A1-1							Annually	Annually	Yes
	SOx										
A1-2	NOx	A1-2							Annually	Annually	Yes
	SOx										
A2-1	Particulates	A2-1	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-2	Particulates	A2-2	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-3	Particulates	A2-3	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-4	Particulates	A2-4	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-5	Particulates	A2-5	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-6	Particulates	A2-6	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-7	Particulates	A2-7	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-8	Particulates	A2-8	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-9	Particulates	A2-9	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes

⁶² 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 www.epa.ie.

⁶³ Specify the proposed limit **and the units.**

⁶⁴ Specify the proposed limit **and the units.**

⁶⁵ Specify the proposed limit **and the units.**

⁶⁶ Specify the proposed limit **and the units.**

⁶⁷ 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](#)'.

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Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ⁶²					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ⁶³	Max. Daily ⁶⁴	Average Month ⁶⁵	Average Annual ⁶⁶	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ⁶⁷	Compliant with BAT Monitoring Requirement?
A2-10	Particulates	A2-10	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-11	Particulates	A2-11	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-12	Particulates	A2-12	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-13	Particulates	A2-13	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-14	Particulates	A2-14	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-15	Particulates	A2-15	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-16	Particulates	A2-16	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-17	Particulates	A2-17	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-18	Particulates	A2-18	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-19	Particulates	A2-19	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-20	Particulates	A2-20	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-21	Particulates	A2-21	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes
A2-22	Particulates	A2-22	50 mg/m ³	-	-	-	Similar EPA Licences		Annually	Annually	Yes

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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



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Minor and/or Potential Emissions to Atmosphere ⁶⁸

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

Yes

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

Emissions to Atmosphere - Minor - Potential Emissions file name:

7.4-2-Air-Minor-Potential

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⁶⁸ Refer to page 3 for guidance on what constitutes a minor or potential emission.

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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?⁶⁹ (Yes/No)

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

Type of Fugitive Emission	Emission Type Applicable? (Yes/No)	Description of fugitive emissions source(s)	Maximum Level	Units	Descriptor/Location
Dust	Yes	Dust on Site Concrete Surfaces in Dry Weather	350	mg/m ² /day	Dust deposition
VOC ⁷⁰	No			%	of solvent input
Ammonia	No			ug/m ³	at the nearest European Site
Nitrogen	No			kgN/ha/yr	at the nearest European Site
Odour	No			Odour Units	at boundary of installation

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⁶⁹ For waste activities, dust and odour emissions should be considered and described in the table below where applicable.

⁷⁰ 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.

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

Dampening site yard surfaces during dry weather.

Note i 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	A1-1, A1-2, A1-3,...etc.
Main Emissions	A2-1, A2-2, A2-3,...etc.
Minor Emissions	A3-1, A3-2, A3-3,...etc. (NOTE: Minor emission points are to be included in the 'Emissions to Atmosphere - Minor and Potential' 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 quarry.
- 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.
- Ammonia and nitrogen from pig and poultry units.

Processes that can give rise to fugitive emissions include:

- o Leaks from valve seals, pump seals and flanges;

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- o Breathing and working losses from liquid storage facilities;
- o Dust emissions from solids stored in the open;
- o Loading and unloading operations;
- o Cleaning operations; and,
- o Emissions from waste water treatment (e.g. volatile organics).

The measures taken to reduce/ prevent fugitive emissions to atmosphere must be addressed, and the facilities and operations required to control emissions must be detailed.

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