

EPA Application Form

7.4.1 - Emissions to Atmosphere - Main and Fugitive Emissions - Attachment

Organisation Name: *

William Connolly & Sons Unlimited Company

Application I.D.: *

P1069-01

Authorisation Application Form

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
As above	Mar 2017	Identification of required fields	Assist correct completion of 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.

The following Section indicates current emissions at the Site.

Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year Note 1	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. (K) ₆	% Oxygen ₇	Moisture ₈
BOILERS										
A1-1	268010	154241	365 days	None	Duty Boiler	18	101.325k Pa	273.15K	3%	dry

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 <i>Note 1</i>	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. (K) ₆	% Oxygen ₇	Moisture ₈
A1-2	268009	154242	6 hours a week	none	Stand-by Boiler	18	101.325k Pa	273.15K	3%	dry
FEED MILL										
A2-1	268040	154205	12 months	Cyclone	Cuber 1	21	101.325k Pa	273.15K	3%	dry
A2-2	268038	154203	12 months	Cyclone	Cuber 2	21	101.325k Pa	273.15K	3%	dry
A2-3	268035	154164	12 months	Cyclone	Cuber 3	21	101.325k Pa	273.15K	No correction	Wet
A2-4	268041	154208	12 months	Cyclone	Cuber 4	19	101.325k Pa	273.15K	No correction	Wet
A2-6	268001	154208	12months	Cyclone and Fabric Filter	Flaker 1	29	101.325k Pa	273.15K	No correction	Wet
A2-7	268000	154208	12months	Cyclone and Fabric Filter	Flaker 1	29	101.325k Pa	273.15K	No correction	Wet
A2-8	268006	154206	12months	Cyclone and Fabric Filter	Flaker 2	23.5	101.325k Pa	273.15K	No correction	Wet

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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year Note 1	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. (K) ₆	% Oxygen ₇	Moisture ₈
A2-9	267998	154206	12months	Cyclone and Fabric Filter	Flaker 2	30	101.325k Pa	273.15K	No correction	Wet
A2-10	268005	154207	12months	Cyclone	Flaker Cyclone	20	101.325k Pa	273.15K	No correction	Wet
A2-11	268010	154209	12months	Cyclone	Flaker Dryer	32	101.325k Pa	273.15K	No correction	Wet
A2-12	268007	154224	12months	Cyclone	Cyclone GVRSA and GVRSB	25	101.325k Pa	273.15K	No correction	Wet
A2-13	268002	154226	12months	None	Flaker Cleaner	23	101.325k Pa	273.15K	No correction	Wet
A2-15	267993	154239	12months	Cyclone	Soya Grinder	3	101.325k Pa	273.15K	No correction	Wet
A2-16	268003	154221	12months	Cyclone	Soya Extruder	24	101.325k Pa	273.15K	No correction	Wet
A2-17	267985	154209	12months	Cyclone	Soya Cyclone - Bin Filling	30.5	101.325k Pa	273.15K	No correction	Wet

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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year <i>Note 1</i>	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. (K) ₆	% Oxygen ₇	Moisture ₈
A2-18	268008	154203	12months	Fabric Filter	Grinder 1	3	101.325k Pa	273.15K	No correction	Wet
A2-19	268007	154205	12months	Fabric Filter	Grinder 3	3	101.325k Pa	273.15K	No correction	Wet
A2-20	268006	154203	12months	Fabric Filter	Grinder 4	3	101.325k Pa	273.15K	No correction	Wet
A2-21	268025	154164	12months	Fabric Filter	Main Intake Grain	15.9	101.325k Pa	273.15K	No correction	Wet
A2-22	268002	154209	12months	Cyclone	Extruder Vent	13.5	101.325k Pa	273.15K	No correction	Wet
A2-23	268002	154238	12months	None	Extruder Dryer/ Cooler Vent	23	101.325k Pa	273.15K	No correction	Wet
A2-26	268009	154204	12months	Cyclone	Flaker Cleaner	23	101.325k Pa	273.15K	No correction	Wet

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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year <i>Note 1</i>	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. (K) ₆	% Oxygen ₇	Moisture ₈
DRYERS										
A2-30A	267972	154247	2 months	None	Dryer 2	8	101.325k Pa	273.15K	No correction	Wet
A2-30B	267972	154246	2 months	None	Dryer 2	8	101.325k Pa	273.15K	No correction	Wet
A2-31	268019	154252	2 months	Cyclone	Dryer 2 – pre-cleaner	9	101.325k Pa	273.15K	No correction	Wet
A2-32	268028	154447	2 months	Cyclone	Dryer 5 – pre-cleaner	13	101.325k Pa	273.15K	No correction	Wet
A2-33	268042	154460	2 months	Cyclone	Dryer 5	21.5	101.325k Pa	273.15K	No correction	Wet
A2-34	268040	154461	2 months	Cyclone	Dryer 5	21.5	101.325k Pa	273.15K	No correction	Wet
A2-35	268038	154459	2 months	Cyclone	Dryer 5	21.5	101.325k Pa	273.15K	No correction	Wet

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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year <i>Note 1</i>	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. (K) ₆	% Oxygen ₇	Moisture ₈
A2-36	268038	154462	2 months	Cyclone	Dryer 5	21.5	101.325k Pa	273.15K	No correction	Wet
A2-37	268037	154463	2 months	Cyclone	Dryer 5	21.5	101.325k Pa	273.15K	No correction	Wet
A2-38	268022	154417	2 months	Cyclo-dust separator	Dryer 4A2	11	101.325k Pa	273.15K	No correction	Wet
A2-39	268030	154418	2 months	Cyclo-dust separator	Dryer 4A1	11	101.325k Pa	273.15K	No correction	Wet
A2-40	268005	154443	2 months	Cyclone	Dryer 4A/B - pre-cleaner	10.5	101.325k Pa	273.15K	No correction	Wet
A2-41	268013	154424	2 months	Cyclo-dust separator	Dryer 4B	19.5	101.325k Pa	273.15K	No correction	Wet
A2-42	268016	154422	2 months	Cyclo-dust separator	Dryer 4B	19.5	101.325k Pa	273.15K	No correction	Wet
A2-45A	268045	154531	2 months	none	Replacement Dryer 6	24.5	101.325k Pa	273.15K	No correction	Wet

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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year Note 1	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. (K) ₆	% Oxygen ₇	Moisture ₈
A2-45B	268047	154535	2 months	none	Replacement Dryer 6	24.5	101.325k Pa	273.15K	No correction	Wet
A2-46A	268049	154539	2 months	none	Replacement Dryer 6	24.5	101.325k Pa	273.15K	No correction	Wet
A2-46B	268051	154543	2 months	none	Replacement Dryer 6	24.5	101.325k Pa	273.15K	No correction	Wet
A2-46C	268042	154549	2 months	Fabric Filter	Replacement Dryer 6	20	101.325k Pa	273.15K	No correction	Wet
SEED PLANT										
A2-48	268022	154392	2 months	Cyclone	Seed Plant	12	101.325k Pa	273.15K	No correction	Wet
A2-49	268019	154292	2 months	Cyclone	Seed Plant	12	101.325k Pa	273.15K	No correction	Wet

Note 1: Except for Dryers, all other emission points operate throughout the year; however not continuously, or in a pattern, therefore must be licensed to operate year-round. Detailed information on operating hours and typical vs. average operating regime for Dryers, Feed Mill and Seed Plant is provided in RFI response submitted on 7th January 2022 and in Air Dispersion Modelling Report.

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THE FOLLOWING SECTION INDICATES CHANGES AFTER MITIGATION MEASURES

No changes to Dryers and Seed Plant currently proposed. Changes are indicated in red in table below. For emission points not listed, no changes proposed.

Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year <i>Note 1</i>	Measures to reduce /minimise / prevent emissions (list techniques) ⁹ <i>Where EQS considerations require measures stricter than BAT, highlight these measures in bold</i>	Source of Waste Gases ¹⁰	Minimum Discharge Height Above Ground (m)	Reference Conditions			
	Easting ¹¹	Northing ¹²					Pressure ¹³	Temp. (K) ¹⁴	% Oxygen ¹⁵	Moisture ¹⁶
FEED MILL										
A2-1	268040	154208	12 months	Cyclone	Cuber 1	27	101.325k Pa	273.15K	3%	dry
A2-2	268028	154207	12 months	Cyclone	Cuber 2	27	101.325k Pa	273.15K	3%	dry
A2-3	268035	154206	12 months	Cyclone	Cuber 3	27	101.325k Pa	273.15K	No correction	Wet

⁹ Detailed descriptions and schematics of all abatement systems should be included in the Operational Report (Tab 4.8 – ‘Reports’).

¹⁰ **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).

¹¹ **Six Digit GPS Irish National Grid Reference.**

¹² **Six Digit GPS Irish National Grid Reference.**

¹³ **Options:** 101.325kPa or No correction.

¹⁴ **Options:** 273.15K or No correction.

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

¹⁶ **Options:** Wet or Dry.

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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year Note 1	Measures to reduce /minimise / prevent emissions (list techniques) ⁹ <i>Where EQS considerations require measures stricter than BAT, highlight these measures in bold</i>	Source of Waste Gases ¹⁰	Minimum Discharge Height Above Ground (m)	Reference Conditions				
	Easting ¹¹	Northing ¹²					Pressure ¹³	Temp. (K) ¹⁴	% Oxygen ¹⁵	Moisture ¹⁶	
A2-4	268041	154221	12 months	Cyclone	Cuber 4	29	101.325k Pa	273.15K	No correction	Wet	
A2-6	267995	154208	12 months	Fabric Filter	Flaker 1	34	101.325k Pa	273.15K	No correction	Wet	
A2-7			A2-6A	12 months	Fabric Filter		Flaker 1	101.325k Pa	273.15K	No correction	Wet
A2-8			All waste gases routed into one emission point. Each of these will have own filter and fan, prior to merging	12 months	Fabric Filter		Flaker 2	101.325k Pa	273.15K	No correction	Wet
A2-9				12 months	Fabric Filter		Flaker 2	101.325k Pa	273.15K	No correction	Wet
A2-13				12 months	Fabric Filter		Flaker Cleaner	101.325k Pa	273.15K	No correction	Wet
A2-26				12 months	Fabric Filter		Flaker Cleaner	101.325k Pa	273.15K	No correction	Wet
A2-18				A2-18A	12 months		Fabric Filter	Grinder 1	34	101.325k Pa	273.15K

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Emission Point Code	Emission Point Grid Ref.		Typical Days Usage/Year Note 1	Measures to reduce /minimise / prevent emissions (list techniques) ⁹ <i>Where EQS considerations require measures stricter than BAT, highlight these measures in bold</i>	Source of Waste Gases ¹⁰	Minimum Discharge Height Above Ground (m)	Reference Conditions			
	Easting ₁₁	Northing ₁₂					Pressure ₁₃	Temp. (K) ₁₄	% Oxygen ₁₅	Moisture ₁₆
A2-19	All waste gases routed into one emission point. Each of these will have own filter and fan, prior to merging		12month hs	Fabric Filter	Grinder 3		101.325k Pa	273.15K	No correction	Wet
A2-20			12month hs	Fabric Filter	Grinder 4		101.325k Pa	273.15K	No correction	Wet
A2-10	268004	154209	12month hs	Fabric Filter	Flaker Cyclone	25.5	101.325k Pa	273.15K	No correction	Wet
A2-21	268025.5	154164	12month hs	Fabric Filter	Main Intake Grain	32	101.325k Pa	273.15K	No correction	Wet



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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 ¹⁷ (where applicable)	Secondary Fuel Type ¹⁸ (where applicable)	LCP Plant Reference (where applicable)	Waste incineration or co-incineration plant reference (where applicable)
A1-1	LPG	None	n/a	n/a
A1-2	LPG	None	n/a	n/a

*add rows to the table as necessary

¹⁷ **Options:** Coal, Lignite, Heavy Fuel Oil, Other Fuel Oil, Peat, Natural Gas, Biogas, Solid Biomass, Waste, Gas Oil, Other or None

¹⁸ **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 ¹⁹ Emitted?	Mass Flow of Emitted Hazardous Substances (g/hour)	Halogenated VOCs ²⁰ Emitted?	Mass Flow of Emitted Halogenated VOCs (g/hour)
n/a				

*add rows to the table as necessary

¹⁹ 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.

²⁰ Halogenated volatile organic compounds which are assigned or need to carry the hazard statements H341 or H351.

Waste Gas Emission 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 ²¹	Monitoring Point Grid Reference	
		Easting ²²	Northing ²³
All emission points are the same as in main emission points table above.	All monitoring points codes are the same as Emission Point Codes.	All co-ordinates are the same as for the emission points, listed in the table above.	

*add rows to the table as necessary

²¹ To include monitoring and sampling points

²² Six Digit GPS Irish National Grid Reference

²³ 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: All points

Control ²⁴ parameter	Monitoring to be carried out ²⁵	Additional notes (where relevant)
Air flow	Flow meter/ pitot tube	For all emission points that have cyclone
Differential pressure	Differential pressure	For all emission points that have fabric filters

*add rows to the table as necessary

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.

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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) *

The following Section indicates current emissions at the Site.

Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ²⁶					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ²⁷	Max. Daily ²⁸	Average Month ²⁹	Average Annual ³⁰	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³¹	Compliant with BAT Monitoring Requirement?
Boilers											
A1-1	NOx	A1-1	200mg/Nm3	n/a	n/a	n/a	Monitoring and MCPD	Medium Combustion Plant Directive	Annual	Flue Gas Analyser	Yes
A1-1	SO2	A1-1	35mg/Nm3	n/a	n/a	n/a	MCPD	Medium Combustion Plant Directive	Annual	Flue Gas Analyser	Yes

²⁶ 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.

²⁷ Specify the proposed limit **and the units.**

²⁸ Specify the proposed limit **and the units.**

²⁹ Specify the proposed limit **and the units.**

³⁰ Specify the proposed limit **and the units.**

³¹ 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 ²⁶					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ²⁷	Max. Daily ²⁸	Average Month ²⁹	Average Annual ³⁰	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³¹	Compliant with BAT Monitoring Requirement?
A1-1	Volumetric Flow	A1-1	5,000 Nm3/hr	n/a	n/a	n/a	Calculation	n/a	Annual	Analyser	Yes
A1-2	NOx	A1-2	200mg/Nm3	n/a	n/a	n/a	Monitoring and MCPD	Medium Combustion Plant Directive	Annual	Flue Gas Analyser	Yes
A1-2	SO2	A1-2	35mg/Nm3	n/a	n/a	n/a	MCPD	Medium Combustion Plant Directive	Annual	Flue Gas Analyser	Yes
A1-2	Volumetric Flow	A1-2	3,000 Nm3/hr	n/a	n/a	n/a	Calculation	n/a	Annual	Analyser	Yes

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Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ³²				BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods			
			Max. Hourly ³³	Max. Daily ³⁴	Average Month ³⁵	Average Annual ³⁶		How was the Proposed Emission Limit Derived?	Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³⁷	Compliant with BAT Monitoring Requirement?
Feed Mill – Total Particulates											
A2-1	Total Particulates	A2-1	0.260 kg/hr	n/a	n/a	n/a	Monitoring & modelling	<2-20	Annual	EN 13284-1	Yes
A2-2	Total Particulates	A2-2	0.240 kg/hr	n/a	n/a	n/a	Monitoring & modelling	<2-20	Annual	EN 13284-1	Yes
A2-3	Total Particulates	A2-3	0.280 kg/hr	n/a	n/a	n/a	Monitoring & modelling	<2-20	Annual	EN 13284-1	Yes
A2-4	Total Particulates	A2-4	0.280 kg/hr	n/a	n/a	n/a	Based on Cubers 1 – 3	<2-20	Annual	EN 13284-1	Yes
A2-6	Total Particulates	A2-6	0.080 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes

³² 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.

³³ Specify the proposed limit **and the units.**

³⁴ Specify the proposed limit **and the units.**

³⁵ Specify the proposed limit **and the units.**

³⁶ Specify the proposed limit **and the units.**

³⁷ 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 ³²					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ³³	Max. Daily ³⁴	Average Month ³⁵	Average Annual ³⁶	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³⁷	Compliant with BAT Monitoring Requirement?
A2-7	Total Particulates	A2-7	0.100 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-8	Total Particulates	A2-8	0.060 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-9	Total Particulates	A2-9	0.030 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-10	Total Particulates	A2-10	0.150 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-11	Total Particulates	A2-11	0.050 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-12	Total Particulates	A2-12	0.260 kg/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 13284-1	Yes
A2-13	Total Particulates	A2-13	0.110 kg/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 13284-1	Yes
A2-15	Total Particulates	A2-15	0.050 kg/hr	n/a	n/a	n/a	Monitoring & modelling	<2-10	Annual	EN 13284-1	Yes
A2-16	Total Particulates	A2-16	0.040 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-17	Total Particulates	A2-17	0.030 kg/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 13284-1	Yes
A2-18	Total Particulates	A2-18	0.035 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-19	Total Particulates	A2-19	0.033 kg/hr	n/a	n/a	n/a	Based on A-17 ad A-18	<2-10	Annual	EN 13284-1	Yes



Authorisation Application Form

Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ³²					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ³³	Max. Daily ³⁴	Average Month ³⁵	Average Annual ³⁶	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³⁷	Compliant with BAT Monitoring Requirement?
A2-20	Total Particulates	A2-20	0.040 kg/hr	n/a	n/a	n/a	Monitoring & modelling	<2-10	Annual	EN 13284-1	Yes
A2-21	Total Particulates	A2-21	0.033 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-22	Total Particulates	A2-22	0.070 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-23	Total Particulates	A2-23	0.140 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-26	Total Particulates	A2-26	0.030 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
Dryers – total Particulates											
A2-30A	Total Particulates	A2-30A	0.295 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-30B	Total Particulates	A2-30B	0.295 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-31	Total Particulates	A2-31	0.020 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-32	Total Particulates	A2-32	0.100 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-33	Total Particulates	A2-33	0.210 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-34	Total Particulates	A2-34	0.195 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-35	Total Particulates	A2-35	0.160 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes



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Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ³²					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ³³	Max. Daily ³⁴	Average Month ³⁵	Average Annual ³⁶	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³⁷	Compliant with BAT Monitoring Requirement?
A2-36	Total Particulates	A2-36	0.195 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-37	Total Particulates	A2-37	0.195 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-38	Total Particulates	A2-38	0.265 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-39	Total Particulates	A2-39	0.415 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-40	Total Particulates	A2-40	0.100 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-41	Total Particulates	A2-41	0.295 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-42	Total Particulates	A2-42	0.390 kg/hr	n/a	n/a	n/a	Monitoring & modelling	n/a	Annual	EN 13284-1	Yes
A2-45A	Total Particulates	A2-45A	1.360 kg/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 13284-1	Yes
A2-45B	Total Particulates	A2-45B	1.360 kg/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 13284-1	Yes
A2-46A	Total Particulates	A2-46A	1.360 kg/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 13284-1	Yes
A2-46B	Total Particulates	A2-46B	1.360 kg/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 13284-1	Yes
A2-46C	Total Particulates	A2-46C	0.200 kg/hr	n/a	n/a	n/a	Calculation	n/a	Annual	EN 13284-1	Yes



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Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ³²					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ³³	Max. Daily ³⁴	Average Month ³⁵	Average Annual ³⁶	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³⁷	Compliant with BAT Monitoring Requirement?
Seed Plant – Total Particulates											
A2-48	Total Particulates	A2-48	0.200 kg/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 13284-1	Yes
A2-49	Total Particulates	A2-49	0.100 kg/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 13284-1	Yes
Feed Mill – Volumetric Flow											
A2-1	Volumetric Flow	A2-1	26,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-2	Volumetric Flow	A2-2	24,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-3	Volumetric Flow	A2-3	28,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-4	Volumetric Flow	A2-4	28,000 Nm3/hr	n/a	n/a	n/a	Based on Cubers 1 – 3	n/a	Annual	EN 16911-1	Yes
A2-6	Volumetric Flow	A2-6	8,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-7	Volumetric Flow	A2-7	10,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-8	Volumetric Flow	A2-8	12,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-9	Volumetric Flow	A2-9	3,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-10	Volumetric Flow	A2-10	30,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-11	Volumetric Flow	A2-11	10,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-12	Volumetric Flow	A2-12	26,000 Nm3/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 16911-1	Yes
A2-13	Volumetric Flow	A2-13	11,000 Nm3/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 16911-1	Yes
A2-15	Volumetric Flow	A2-15	5,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-16	Volumetric Flow	A2-16	8,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes



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Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ³²					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ³³	Max. Daily ³⁴	Average Month ³⁵	Average Annual ³⁶	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³⁷	Compliant with BAT Monitoring Requirement?
A2-17	Volumetric Flow	A2-17	3,000 Nm3/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 16911-1	Yes
A2-18	Volumetric Flow	A2-18	7,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-19	Volumetric Flow	A2-19	6,500 Nm3/hr	n/a	n/a	n/a	Based on A-17 and A-18	n/a	Annual	EN 16911-1	Yes
A2-20	Volumetric Flow	A2-20	8,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-21	Volumetric Flow	A2-21	6,500 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-22	Volumetric Flow	A2-22	14,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-23	Volumetric Flow	A2-23	28,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-26	Volumetric Flow	A2-26	6,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
DRYERS – Volumetric Flow											
A2-30A	Volumetric Flow	A2-30A	59,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-30B	Volumetric Flow	A2-30B	59,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-31	Volumetric Flow	A2-31	2,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-32	Volumetric Flow	A2-32	10,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-33	Volumetric Flow	A2-33	42,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-34	Volumetric Flow	A2-34	39,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-35	Volumetric Flow	A2-35	32,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-36	Volumetric Flow	A2-36	39,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-37	Volumetric Flow	A2-37	39,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-38	Volumetric Flow	A2-38	53,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-39	Volumetric Flow	A2-39	83,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-40	Volumetric Flow	A2-40	10,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes



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Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ³²					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods		
			Max. Hourly ³³	Max. Daily ³⁴	Average Month ³⁵	Average Annual ³⁶	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ³⁷	Compliant with BAT Monitoring Requirement?
A2-41	Volumetric Flow	A2-41	59,000 Nm3/hr	n/a	n/a	n/a	Monitoring	n/a	Annual	EN 16911-1	Yes
A2-42	Volumetric Flow	A2-42	78,000 Nm3/hr	n/a	n/a	n/a	Manufacturer specification	n/a	Annual	EN 16911-1	Yes
A2-45A	Volumetric Flow	A2-45A	136,000 Nm3/hr	n/a	n/a	n/a	Manufacturer specification	n/a	Annual	EN 16911-1	Yes
A2-45B	Volumetric Flow	A2-45B	136,000 Nm3/hr	n/a	n/a	n/a	Manufacturer specification	n/a	Annual	EN 16911-1	Yes
A2-46A	Volumetric Flow	A2-46A	136,000 Nm3/hr	n/a	n/a	n/a	Manufacturer specification	n/a	Annual	EN 16911-1	Yes
A2-46B	Volumetric Flow	A2-46B	136,000 Nm3/hr	n/a	n/a	n/a	Manufacturer specification	n/a	Annual	EN 16911-1	Yes
A2-46C	Volumetric Flow	A2-46C	20,000 Nm3/hr	n/a	n/a	n/a	Manufacturer specification	n/a	Annual	EN 16911-1	Yes
SEED PLANT - Volumetric Flow											
A2-48	Volumetric Flow	A2-48	20,000 Nm3/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 16911-1	Yes
A2-49	Volumetric Flow	A2-49	10,000 Nm3/hr	n/a	n/a	n/a	Estimate	n/a	Annual	EN 16911-1	Yes

* 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

THE FOLLOWING SECTION INDICATES CHANGES AFTER MITIGATION MEASURES

No changes to Dryers and Seed Plant currently proposed. Changes are indicated in red in table below. For emission points not listed, no changes to vol. flow or mass emissions are proposed.

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Emission Point Code	Parameter	Monitoring Point Code	Proposed Emission Limits ³⁸					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods			
			Max. Hourly ³⁹	Max. Daily ⁴⁰	Average Month ⁴¹	Average Annual ⁴²	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ⁴³	Compliant with BAT Monitoring Requirement?	
Feed Mill – Total Particulates												
A2-6	A2-6A	Total Particulates	A2-6A	0.250 kg/hr	n/a	n/a	n/a	Calculation	n/a	Annual	EN 13284-1	Yes
A2-7					n/a	n/a	n/a		n/a			
A2-8					n/a	n/a	n/a		n/a			
A2-9					n/a	n/a	n/a		n/a			
A2-13					n/a	n/a	n/a		n/a			
A2-26					n/a	n/a	n/a		n/a			
A2-18	A2-18A	Total Particulates	A2-18A	0.150 kg/hr	n/a	n/a	n/a	Calculation	<2-10	Annual	EN 13284-1	Yes
A2-19					n/a	n/a	n/a					
A2-20					n/a	n/a	n/a					

³⁸ 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.

³⁹ Specify the proposed limit **and** the units.

⁴⁰ Specify the proposed limit **and** the units.

⁴¹ Specify the proposed limit **and** the units.

⁴² Specify the proposed limit **and** the units.

⁴³ 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 ³⁸					BAT Associated Emission Range (if applicable)	Sampling / Monitoring EPA Guidance for Monitoring - AG2 Index of Preferred Methods			
			Max. Hourly ³⁹	Max. Daily ⁴⁰	Average Month ⁴¹	Average Annual ⁴²	How was the Proposed Emission Limit Derived?		Proposed Monitoring Frequency	Proposed Monitoring and Analysis Method ⁴³	Compliant with BAT Monitoring Requirement?	
Feed Mill – Volumetric Flow												
A2-6	A2-6A	Volumetric Flow	A2-6A	50,000 Nm3/hr	n/a	n/a	n/a	Calculation	n/a	Annual	EN 16911-1	Yes
A2-7					n/a	n/a	n/a		n/a			
A2-8					n/a	n/a	n/a		n/a			
A2-9					n/a	n/a	n/a		n/a			
A2-13					n/a	n/a	n/a		n/a			
A2-26					n/a	n/a	n/a		n/a			
A2-18	A2-18A	Volumetric Flow	A2-18A	30,000 Nm3/hr	n/a	n/a	n/a	Calculation	n/a	Annual	EN 16911-1	Yes
A2-19					n/a	n/a	n/a		n/a			
A2-20					n/a	n/a	n/a		n/a			

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Minor and/or Potential Emissions to Atmosphere⁴⁴

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:

Previously submitted with the IE application:
"18 03 16 EPA Application Emissions to Air- Minor and Potential Section
7.2.pdf"

⁴⁴ 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?⁴⁵ **(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	During harvest season, deliveries of grain, as well as stockpiles of grain in the yards and fields around the plant are key sources of fugitive emissions.	350	mg/m ² /day	Dust deposition
VOC ⁴⁶	No	n/a	n/a	%	of solvent input
Ammonia	No	n/a	n/a	ug/m ³	at the nearest European Site
Nitrogen	No	n/a	n/a	kgN/ha/yr	at the nearest European Site
Odour	Yes	Feed Mill sources, in particular Cubers, and any steam processes.	3 OUE/m ³	Odour Units	At sensitive receptors

⁴⁵ For waste activities, dust and odour emissions should be considered and described in the table below where applicable.

⁴⁶ 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

- Dust Management Plan will be prepared for the Site and implemented before the Harvest Season 2022.
- Although currently, odour is not an issue, and no complaints were ever received, Odour Management Plan will also be prepared within 1 year of IEL being issued.

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;
- 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.