

EPA Application Form

7.5 - Noise Emissions - Attachment

Organisation Name: *

Amazon Data Services Ireland Limited

Application I.D.: *

LA015550

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 2018	Identification of required fields	Assist correct completion of attachment

Authorisation Application Form

Noise Emissions (see **Note i** at the end of this attachment)

Note: An assessment of the impacts of noise, where applicable, should be uploaded in Tab 7 – ‘Emissions Overview’ of the application form.

Provide detail of measures to reduce noise emissions (list techniques)

(See **Note ii** at the end of this attachment)

Source	L _{WA} - Octave Band Centre Frequency								dB (A)
	63	125	250	500	1k	2k	4k	8k	
Building A Extract Fans	56	69	73	80	78	78	76	74	85
Building A Condensers	56	69	73	80	78	78	76	74	85
Building A North Louvres ^A	29	51	57	59	61	57	52	43	65
Building A South Louvres ^A	31	54	61	62	64	60	55	47	68
Bldg A Generator Sides	82	97	99	96	94	92	87	85	103
Bldg A Generator Fronts	84	93	92	91	87	87	86	83	98
Bldg A Generator Rears	77	96	96	78	69	67	75	88	99
Bldg A Gen. Roof (Solid)	79	96	99	93	92	89	83	82	102
Bldg A Gen. Vent Discharge	77	91	90	83	78	76	87	94	98
Bldg A Gen. Exhaust Outlet ^B	80	89	77	77	76	70	60	47	90
Building B Extract Fans	56	69	73	80	78	78	76	74	85
Building B Condensers	--	78	74	71	71	68	60	53	81
Building B North Louvres ^A	29	51	57	59	61	57	52	43	65
Building B South Louvres ^A	31	54	61	62	64	60	55	47	68
Bldg A Generator Sides	78	87	83	87	87	88	83	87	95
Bldg A Generator Fronts	78	87	83	87	87	88	83	87	95
Bldg A Generator Rears	69	78	75	82	82	84	77	75	89
Bldg A Gen. Roof (Solid)	74	84	78	69	63	63	69	86	89
Bldg A Gen. Vent Discharge	84	91	91	89	90	90	86	86	98
Bldg A Gen. Exhaust Outlet ^B	84	96	80	66	65	66	66	75	96

Note A Per m²

Note B Additional attenuation due to 20m stack and additional bends assumed.

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Following the *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012 as amended) complete the table below, inputting summary details of noise monitoring points ^(see **Note iii** at the end of this attachment) and proposed noise limit criteria.

Monitoring point code ¹	Easting ²	Northing ³	Monitoring point type ⁴	Proposed Noise Limit Criteria				Proposed monitoring frequency
				Max. noise level daytime dB L _{Ar,T} (30 mins)	Max. noise level evening dB L _{Ar,T} (30 mins)	Max. noise level night dB L _{eq,T} (15-30 mins)	How was the noise limit derived? ⁵	
A	307011	274303	Noise Sensitive Location	55	50	45	BAT / NG4 See Section 4.3 of supporting NG4 report Ref: 237501.0496NR01	Annual
B	307156	274096		55	50	45		
C	306678	273654		55	50	45		
D	306875	274125		55	55	55		
E	307113	273851		55	55	55		

Note: Map(s)/drawing(s) uploaded under ‘Site Plans’ in Tab 3 of the application form should identify the emission and monitoring points.

Was an assessment for tonal and impulsive noise carried out? ⁶ (Yes/No)	Yes
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¹ The following convention should be observed when labelling noise monitoring points:

N1, N2,.....The monitoring locations should be identified on an accompanying site plan drawing(s) uploaded in Tab 3 – ‘Site’ of the application form.

² Six Digit GPS Irish National Grid Reference of Monitoring Point

³ Six Digit GPS Irish National Grid Reference of Monitoring Point

⁴ Monitoring point type options: ‘Boundary’, ‘Noise Sensitive Location’ or ‘Permanent Noise Monitoring’

⁵ Derived noise limit options: ‘BAT’, ‘EQS’, or ‘Derogation’

⁶ Refer to section 5 of the Agency’s *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012 as amended).

* indicates required field

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If 'Yes' was tonal or impulsive noise identified to be present? (Yes/No)	No
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For emissions outside the EPA Noise Guidance Note limit, see the Agency's *Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4)* (2012) (available on www.epa.ie), a full evaluation of the existing abatement/treatment system must be provided. A planned programme of improvement towards meeting upgraded standards is required to be uploaded with this document. This programme should highlight specific goals and a time scale, together with options for modification, upgrading or replacement, as required, to bring the emissions within the limits as set out in the Guidance Note.

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- Note i** This part of the application form collects data on noise emissions namely measures used to reduce noise and noise levels at a reference distance under normal operation. As noise emissions can arise from different sources on a site, the EPA usually considers the total emission from the site. Please note that emission limit values and monitoring requirements in any proposed licence shall be based on the information supplied hereunder.
- Note ii** 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 housing, insulation and appropriate location of equipment. List all techniques proposed/employed. Technique(s) employed must comply with BAT. Highlight additional measures required for the purposes of protecting the environment. 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
 2. Stricter measures/techniques than BAT
 3. BAT determined by competent authority in consultation with the applicant
 4. Other measures
- Note iii** An individual record (i.e. row) is required for each monitoring point. A National Grid Reference (12 digit, 6E, 6N) must be given for each monitoring point. Noise emissions differ from other emissions in that they are generally limited at a reference distance from the source(s). This reference distance should be, where possible, the boundary of the installation but in certain circumstances it is a noise sensitive location outside the boundary of the installation. Noise levels along a boundary will vary due to the location and positioning of noise sources and the 'worst case' should always be selected. Sufficient points should be identified to fully describe the noise levels from the installation. For waste activities, traffic noise emissions should be taken into account especially if it. The Agency's Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4) (2012) and Guidance Note on Noise assessment of Wind Turbine Operations at EPA licensed Sites (NG3)(as appropriate) should be consulted when setting proposed sound limits.