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ENDOLYS Ltd

EMERGENCY DIESEL GENERATOR

BAT ASSESSMENT

The following table outlines the BAT assessment for the emergency diesel generator in operation at the Endolys Ltd plastics to oil facility, located at Yarm Road, Darlington. The assessment is in line with the Defra guidance: *Emergency backup diesel engines on installations: best available techniques (BAT)* published 21st August 2023.

BAT	Compliance
Regulatory Requirements	
Where appropriate, as a minimum you must meet the requirements of: • Schedule 25A of the medium combustion plant directive • Schedule 25B of the specified generators regulation	The diesel generator will meet the requirements of the relevant directives.
Build Standards	
Engines must be optimised to reduce emissions ('emissions optimised'). Engines that are optimised to reduce fuel ('fuel optimised') have greater emissions and will not meet BAT unless they have secondary abatement.	The diesel generator will be 'emissions optimised' not 'fuel optimised'.
Combustion plant specification sheets that keep to one or more of the former 2g TA Luft and United States Environment Protection Agency (EPA) Tier 2 (or equivalent) standards are acceptable proof of BAT plant. These do not need on-site exhaust emission monitoring.	Please see the specification sheets provided. Doosan generators are designed to meet EPA Tier 4 emission standards.
If you can show your engine achieves the following guidance level (which is not an ELV compliance requirement), it can be considered emissions optimised. Approximately 750mg per m3 NOx (as NO2) at 15% O2 standard temperature and pressure, dry, 273K and 101.3kPa (equivalent to 2,000mg per m3 at 5% O2 – commonly termed '2g') at a typical emergency load (usually greater than 67% of standby power rating).	Please see the specification sheets provided
Your stack design should ensure good flue gas dispersion. Stacks should be vertical and emissions should not be obstructed by caps or cowls.	The stack will be vertical with no caps or cowls. The stack height is 13m.
Operational Controls	
Minimise how much you test diesel engines. You must test for less than 50 hours a year.	This BAT will be met.
Avoid testing engines when the air quality is poor.	This BAT will be met.
Do not test more than one engine at a time.	There will be only one engine onsite. This BAT will be met.
When using backup diesel generators, you must manage the impacts on air quality to minimise harm to human health and the environment.	This BAT will be met.