

Newport Fugitive Emissions Report Summary May 2018

Introduction

It is a requirement of our permit to review fugitive emissions. Also, progress on achieving BAT 5 and 6 regarding diffuse emissions are to be reported annually in May in accordance with Improvement Condition 17.

Discussion

Lead stack emission performance

In January and April 2017 there were two lead stack emission breaches on Stack A4 (Grey Oxide blower) of 0.59 and 0.32mg/m³. This was partly due to the extremely low emission limit of 0.25mg/m³ which has historically proved difficult to achieve. Following the introduction of the increased limit of 0.75mg/m³, which is still well below the BAT level of 1.0mg/m³ for lead, there have been no issues on A4 which has an average emission of 0.21mg/m³ for 2017. In fact, following the permit variation in May 2017 there have been no breaches of lead stack emissions

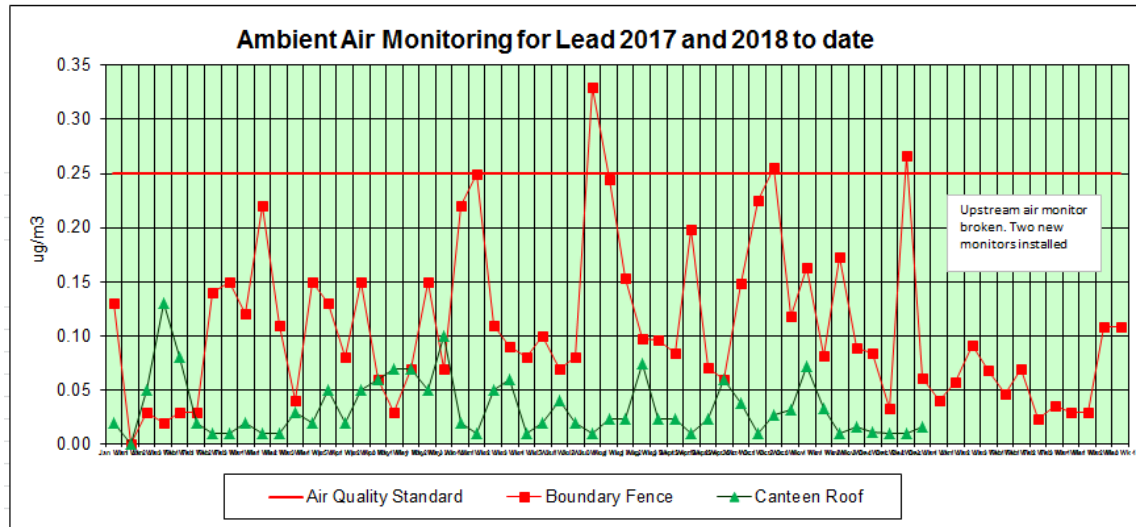
BAT Conclusion Review – BAT 5 and 6 Diffuse emissions

As part of the review against the BAT Conclusions for the Non-ferrous Metals Sector two areas were highlighted as requiring further improvement. These were BAT Conclusions 5 and 6 regarding fugitive/diffuse emissions. A fugitive emissions reduction plan commenced in 2017 which is ongoing in specific areas of the factory – Metallics, Assembly, Maintenance Toolrooms and Waste Management. The key message of the project is containing lead at source. The improvements are evidenced both visually on site and by the lead in air measured quantitatively by the site ambient monitors.

BAT 5 1.1.4.1 Diffuse emissions	In order to prevent or, where this is not practicable, to reduce diffuse emissions to air and water, BAT is to collect diffuse emissions as much as possible nearest to the source and treat them.	BAT 5 - NOT COMPLIANT. February 2017 start of gap analysis on diffuse lead emission for Metallics, Waste Management, Assembly and Maintenance Departments. Creation of an action plan for each area which will be driven through monthly EHS meetings. Focus is to prevent, control and collect diffuse emissions at source and treat before they enter the environment. For example: Prevent oxide leaks, lead paste leaks, transferring of equipment from one building to another, closing of doors and windows.
BAT 6 1.1.4.1 Diffuse emissions	In order to prevent or, where this is not practicable, to reduce diffuse dust emissions to air, BAT is to set up and implement an action plan on diffuse dust emissions, as part of the environmental management system (see BAT 1), that incorporates both of the following measures:	BAT 6 - NOT COMPLIANT. In conjunction with the actions outlined in BAT 5 above EnerSys need to identify the most relevant dust (particulate and lead) emission sources and define and implement appropriate actions and techniques to prevent and reduce diffuse emissions over a given time. Work to commence February 2017.
a	Identify the most relevant diffuse dust emission sources (using e.g. EN 15445);	
b	Define and implement appropriate actions and techniques to prevent or reduce diffuse emissions over a given time frame.	

Lead Ambient Monitor Results

The downstream, ambient monitor, positioned on the eastern boundary of the site had a rolling average reading of 0.12ug/m³ for 2017, well below the 0.25ug/m³ limit. The upstream, western boundary monitor averages 0.03ug/m³ for 2017. The following graph shows the trend in lead emissions over 2017 and 2018 to date.



Both ambient lead monitors are being replaced in May 2018 with Partisol 2025i models which are more up to date than the eleven year old systems that have been in place. Results from these monitors will be available from June.

EnerSys is running a global lean project called EOS (EnerSys Operating System) with the aim of taking waste in all forms out of the business and standardising work practices across factories. Part of the progress being made via EOS is visual management of site, 6S and a focus on Company image amongst others. All of these drivers have helped to improve environmental performance on site and will continue to do so.

The full fugitive emissions report for 2017/2018 to date is attached.

EnerSys remains committed to:

- Protecting the environment,
- Preventing pollution and reducing emissions
- Meeting all compliance obligations as a minimum performance requirement
- Enhancing environmental performance
- Continually improving the environmental management system

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