

REF 1

Design and Access Statement

Notes to accompany planning application

Introduction

We manufacture a range of epoxy and phenolic resin coated substrates using both horizontal and vertical coating machines. In 1998, we installed a 50,000 Nm³/h air purification system (Voxidiser) to remove all hazardous substances from entering the atmosphere as part of the new legislation.

Due to expansion we also installed a second a 30,000 Nm³/h air purification system (oxidiser) in 2010.

The main original system installed in 1998 now needs to be replaced with a new oxidiser, as it is too old and becoming more and more difficult to maintain. It is not as energy efficient as the new technology has moved on considerably in the 23 years the older unit has been in operation.

The replacement air purification system will handle a larger air flow at 100,000 Nm³/h to allow more process extraction systems to be installed for safety and health reasons, provide a system that can handle silicone based coatings, thus providing some extra capacity for future expansion.

The replacement air purification system will be sited next to the old system and therefore, be sited in the central area of our site, an area not visible from the road or private houses.

Once the replacement air purification system, the old one, including the stack will be fully decommissioned and removed from site.

The height of the new stack will be the same height as the existing one that will be removed.

The maximum noise level emitted from the plant will be 60dB(A) and therefore we should see no change to the continuous noise levels at our boundaries. However, the new technology will have a lower noise emission at occasional change-over, meaning that the overall noise level emitted from the machine will be lower than the current Voxidiser.

There will be no impact on parking spaces at site.

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Supporting documentation and drawings to highlight the positioning of the new plant

REF 1 – Design and Access Statement

REF 2 – Scaled diagrams to show the location plan and further details of the proposal

REF 3 – Scaled diagrams to show the location plan and further details of the proposal

REF 4 – Photograph of site showing position in relation to existing unit, our site boundary and the local housing.

REF – 5 Technical CAD drawing for the new unit

REF 6 – (a, b & c) Three 3D CAD drawings of the actual system

Key Benefits

- There will be no process fumes or odours from the stack.
- As the oxidiser will be positioned next to the existing one that is such that it cannot easily be seen or heard from any boundary of the site.
- As the process will be more efficient and overall capacity will be increased, the need for weekend working will be significantly reduced, thus reducing the overall impact on local neighbours.
- Whilst the project will offer some opportunity for further expansion internally, the new replacement system will be much more energy efficient and emit an overall lower noise level, thus reducing the overall environmental impact of the site.
- The replacement of such a critical piece of equipment at the company which remains one of the biggest employers in the area, will secure the jobs and future careers for many more years to come.

P. Taberner 18th May 2020