Envirosol Brownhills Outline Abatement Proposals
Application Enclosure 6

The site will carry our several activities that may generate significant amounts of airborne VOC's:

- Crushing of empty containers that have contained solvent containing materials
- Shredding of empty containers that have contained solvent containing materials
- Manual bulking of materials that contain solvents
- Bulking materials on to tankers that contain solvents

All of the activities shown above can give rise to the emission to atmosphere of VOC's in varying amounts.

The types of materials that will give rise to these emissions are typically paint or resin related and as such will contain Class A or Class B VOC's. It is not proposed that any High Risk VOC containing materials will be subject to any of the above processes.

Each of the above activities will be the subject of a system to collect these emissions and direct them through an abatement system that will reduce the emission of VOC's to atmosphere to < 20mg per cubic meter of exhausted air at a maximum air flow rate of 5,000 cubic metres per hour (100g/hr max).

Crushing &Shredding

These activities will be the main source of airborne VOC emissions from the site's activities and as such will take place within the abated area as shown on drawing CHEM/SAS/20. This room will be a sealed unit accessed via a fast acting roller shutter door from the abatement equipment room, which itself will be sealed and accessed from the main areas of the site via its own fast acting roller shutter door, effectively creating an airlock for the abated area. Each of the crusher and shredder will be connected directly to its own Local Extraction Vent (LEV) that will remove VOC laden air from the process directly to the abatement equipment, thus minimising the levels of VOC within the abated room area.

Manual Bulking

This activity will take place under an LEV situated as shown in drawing CHEM/SAS/20. Manual bulking generates a relatively small amount of emissions, primarily as the air exhausted from the container into which the waste is being bulked. The LEV will remove this VOC saturated air directly to the abatement equipment.

Tanker Bulking

As materials are bulk onto either a pump loaded or vacuum tanker contaminated air is exhausted from the tanker barrel. The abatement equipment ducting will have a connection for a hose (as shown on drawing CHEM/SAS/20) to connect to the barrel exhausting system of any tanker so that this air can be delivered directly to the abatement equipment.

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Abatement Equipment

This equipment will be situated within the abatement room as shown on drawing CHEM/SAS/20. It will be exhausted to atmosphere outside of the building. The abatement method will be one agreed with the Environment Agency, either as currently accepted BAT or more recent technology that provides for the same or better quality of abatement.

Emissions Monitoring

The exhaust to atmosphere post abatement will be continuously monitored, as agreed with the Environment Agency, using detectors in the air flow to ensure that emission standards are maintained.