

## **SECTION 7      MAINTENANCE OF SYSTEMS**

### **MAINTENANCE OF SYSTEMS**

Maintenance is a pre-requisite for any pollution control system and it is important that this is impressed upon the user as a non maintained system will fail and may ultimately cause loss of airflow or component failure within the extract system itself. It is important that there is full service back up provided by suppliers of pollution control equipment as without this back up the initial installation is pointless. Maintenance should be kept to a minimum from both a physical and fiscal point of view. A further point that is useful for enforcement is that the maintenance or particularly non-maintenance of a system should be easily identifiable.

Purified Air Limited offer a full maintenance and breakdown operation throughout the UK, we have engineers in most locations who can be readily contacted by mobile telephone, these engineers carry a full range of spares they are also backed up by stock and technical advice at the main works. Those customers who are capable and wish to carry out their own maintenance receive a free of charge helpline back up from our technical staff.

#### **Electrostatic Systems (ESP)**

These units are modular in construction utilising one filter, ioniser and collection cell per 1500 cfm of air treated E.g. A system for 3000 cfm requires one ESP 3000 comprising two pre filters, two ionisers and two collector cells. All components need to be washed regularly in hot water with chemicals or detergent to remove contaminants collected during use. The preferred method of carrying out maintenance is to exchange the component parts with cleaned ones enabling the dirty equipment to be returned to our works for specialist cleaning and checking.

#### **Passive Filter Systems**

These units require intensive maintenance with the first stage filter being changed every one or two days, the second stage every three to four weeks and the final stage every nine to twelve months. The first stage filters can be exchanged by the user and this is preferred due to the labour costs, however, the user must ensure that this is done as if forgotten it can result in ruining the second and third stages in a short space of time. The second stage will be exchanged during a three weekly or monthly visit by our engineer. The third stage is exchanged when necessary and is monitored during the regular service visits.

### **O.N.100 Odour Neutraliser**

This unit needs to be topped up with chemical and all operations require checking at an agreed service cycle between three and eight weeks. It is important to note that nothing detrimental will happen to this unit if the particulate phase maintenance is ignored, although there will be an affect on the efficiency of the odour control.