



Technical Paper (ref 2.1)

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PROBE INDUSTRIES/GRAMPIAN FOODS GROUP

ODOUR REMOVAL PROJECT

In response to our telephone conversation this morning, we can provide the expertise and equipment requested for odour removal and also ensure that use of our equipment and chemical formulations complies with statutory regulations.

- Probe Industries has many years of experience of dealing with malodour problems in the UK, Europe, Hong Kong and USA. **We custom design, manufacture, supply and install odour removal technology** (equipment and appropriate chemical formulations) in all locations. We do **not** use masking agent systems and our odour-removing AiroNaut™ technology has been thoroughly tried and tested over many years. We have more than 500 PROBE Rotary Atomisers in operation throughout UK alone and this year we have installed our equipment in the Far East and in the United States
- The locations where odours are a problem, at least in the UK, include waste treatment plants, landfill sites, waste transfer stations, composting operations, food rendering plants, sewage treatment works etc. In these locations Probe Industries technology has provided odour-removal solutions over many years.
- Probe AiroNaut™ misting systems and odour-removing chemical formulations are based on sound science and quality engineering. Our systems deal with a wide range of problematical malodourous chemical compounds including hydrogen sulphide, mercaptans, amines, aldehydes, ketones and other compounds which produce foul odours. Micron sized mists and sprays interact with, encapsulate and modify the chemical structures of the compounds which are the cause of bad smells and thus eliminate the sources of foul odours.
- We use only food-grade products in our systems and ensure that they comply with local and national environmental regulations and requirements.



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- We installed an odour-removing filter system at a rendering plant for McIntosh Donald, Aberdeen, some time ago and have very recently updated and improved the efficiency and operation of this system. The original filter system used clay media, saturated with our AiroNaut™ odour-removing formulation. On the experience gained at McIntosh Donald, we have redesigned this filter system and now incorporate microdroplet spray nozzles and use an improved formula for trapping and oxidising the malodourous molecules. A device based on these developments was installed at a sewage treatment works in Lincolnshire and within half an hour of starting the fan, hydrogen sulphide levels of 180 ppm!! were reduced by more than 90%. Since then, odour complaints from local residents living near the plant have stopped and hydrogen sulphide and other foul-smelling compounds have been removed.
 - We are confident that we can provide the expertise and equipment to satisfy the needs which Grampian Foods require and comply with SEPA/IPPC regulations.

Dr Peter Carty-Technical Director Probe Industries
18th October 2005



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