



"Harnessing the
power of Light"



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The Chairman
Sars Expert Committee
c/o Health, Welfare and Food Bureau
19/F, Murray Building
Garden Road
Hong Kong

8th August 2003

Attention of Professor Sian Griffiths and Sir Cyril Chantler

Dear Sirs,

Re: UVGI Systems Nightingale™ Unit

With the kind assistance of [REDACTED] of Electrical Insulation Systems Limited, we are delighted to have the opportunity to present to you an outline of our company and our product, the UVGI Nightingale Unit, winner of the UK "Air Movement Product of the Year" for 2003.

In doing this I attach the following documents:

- Recent Dstl Porton Down approved Press Release
- (Interim overview) Nightingale product brochure
- PowerPoint with Dstl test data
- Copy of EMC Test certificates and report
- Recent Press Coverage
- Copy of Air Movement Product of the Year Award 2003

Our objective is to find new applications for our products and we have identified your organisation as a possible partner for investigation.

Our Ultra Violet Germicidal Irradiation (UVGI) Nightingale Filtration Unit has been tested thoroughly at Dstl Porton Down, where it captured and destroyed more than 99.9% of *Bacillus subtilis* spores, a simulant for anthrax bacteria.

On the basis of the laboratory testing and available published data, the Dstl report concluded, "With good air circulation, the UVGI Filtration Unit should be capable of significantly diminishing exposure to bacteria which pose a health risk in air, such as TB, MRSA, and anthrax". With Sars and most viruses being 3-5x more susceptible to UV than Anthrax, its efficacy will be far greater.

We believe the UVGI Nightingale Unit will make a significant difference to the business of healthcare, delivering real world benefits which address the key issues of maximising efficacy, efficiency and cost containment.

The UVGI Nightingale Unit has a variety of applications within the medical sector these being:-

- Air sanitisation within areas where airborne infection control is crucial
- Mobile and protective unit against airborne microbial contamination
- Areas where there is a need for a positive pressure room to improve recovery and prevent airborne secondary infection for immune-compromised patients
- Areas where there is a need for a negative pressure room for patients with contagious infections such as TB and SARS
- Decontamination clean up (Aspergillus, NLV, SARS, MRSA, fungi, spores,)
- Micro-climatic bed (patent pending) to provide a localised area of sanitised and deodorised air
- Mobile operating theatre with laminar flow HEPA filters
- Laminar flow hood for biological culture incubators

Features / Benefits

- Flexible in use, independently mobile
- Protects people and equipment from micro-biologically contaminated atmosphere
- Elimination of risks involved in filter handling
- Easy installation and deployed within minutes ("plug & play solution")
- Safe – no UV-C exposure, no ozone – conforms with all statutory regulations, including CE test requirements and all requirements for EMC Testing
- Quiet – unobtrusive in sensitive environment
- Maintain the efficiency of your organisation
- Greater staff and public confidence
- Price/Performance Ratio that is unmatched
- Transports easily between hospital departments (passes through doors as small as 700mm wide)
- Cost reduction through preventative infection control

Applications

- Immunology – Haematology
- Oncology
- Major Burns
- Intensive care
- Transplantation

- Mobile protection during building and reconstruction work

As far as we are aware, the UVGI unit is unique and unrivalled in terms of controlling airborne pathogens and its clean-up efficiency. The unit is easily transportable (about the size of a large fridge at present), and can be used in a wide variety of locations with duct-mounted capability.

Hospital Acquired Infection (HAI) was responsible for 5000 unnecessary deaths last year and cost the UK Health Service just under £1 billion (source: National Audit Office).

We believe that the UVGI unit would greatly reduce risks associated with secondary infection thereby saving lives, whilst at the same time markedly reducing unnecessary NHS expenditure and further eliminating the need to close wards/hospitals.

While we recognise that the key to limiting secondary infection in hospitals is ultimately strict adherence to effective hygiene practices by staff, the UVGI Unit enables better testing of such practices by providing a valuable benchmark to alternative sources of risk. As such, the unit positions itself as an integral part of any complete hospital hygiene solution.

We are currently focussing in the area of positive & negative pressure rooms where we have found the costs for the conventional approach with a central filtration plant to be in the region of £40-£80k per (plus maintenance). Our product lease cost spread over 5 years would approximate to only £8-£10k (plus maintenance) offering enormous savings and flexibility to many hospitals.

We are confident that we can work together to deliver your stipulated requirements in respect of UVGI Systems and technologies and would welcome the opportunity to demonstrate its capabilities to you and your officials.

Should you have any questions or would like to talk further on this matter you can contact me on the following number: 0044 208 783 2949.

Thanking you in anticipation.

Yours Faithfully

Joseph J. Tufo
Managing Director
UVGI Systems Ltd

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