



CBRN systems: supporting business continuity

As the world security situation has changed, so has the business of Portsmouth Aviation Limited. For many years the company has provided a wide range of products for the defence market and has specialised in the design and manufacture of Chemical Biological Radiological and Nuclear (CBRN) Collective Protection Systems.

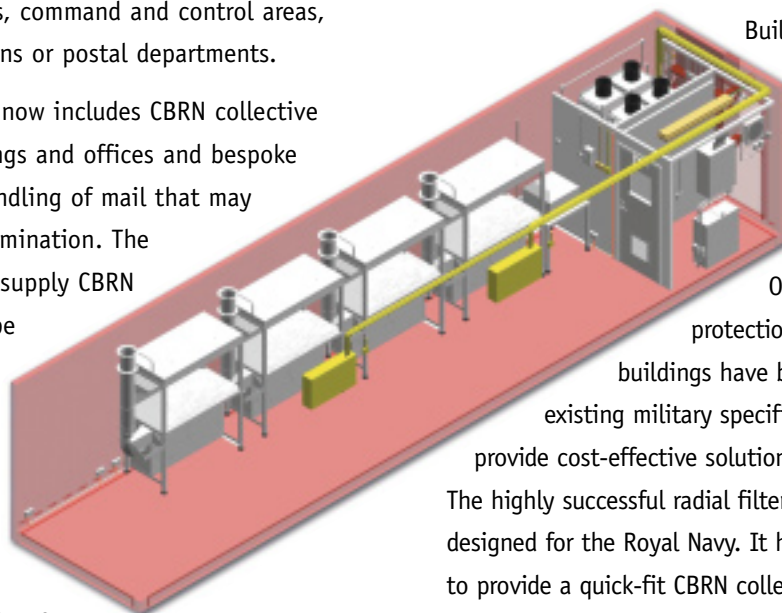
This specialisation has been expanded to provide essential products and capability for the Resilience and Homeland Security sectors. The Company has focused on providing CBRN systems that support business continuity for command, control and management functions in the event of a terrorist incident or where a significant risk has been identified. These products have been delivered to, and are suitable for, Government organisations, the emergency services, command and control areas, financial institutions or postal departments.

The product range now includes CBRN collective systems for buildings and offices and bespoke designs for the handling of mail that may be at risk of contamination. The Company can also supply CBRN systems that can be fitted into emergency response vehicles as well as a range of flexible shelters equipped with CBRN protection for emergency situations.

Portsmouth Aviation has expanded its role as a system solution provider in two ways – firstly, adapting its own CBRN systems for new



applications; secondly, by teaming with a US partner, with significant CBRN experience, to offer a broader range of established and demonstrated products.



Buildings and their occupants can be vulnerable to CBRN attacks, which directly impact on business continuity.

Our collective protection systems for buildings have been developed from existing military specification equipment to provide cost-effective solutions to security issues. The highly successful radial filter system was originally designed for the Royal Navy. It has been re-configured to provide a quick-fit CBRN collective protection system for buildings or discrete office areas. Using our extensive technical knowledge, we have teamed with the facility management and security departments of several buildings to identify the most effective method of installing the radial filter system.

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The design concept phase is a very quick process, which can be completed in a matter of days. A survey of the building is undertaken including a review of the existing security arrangements and essential facilities. This is completed with the support of the appropriate building officers. Upon completion of this process, the installation points for the equipment are identified and agreed.

When the units are supplied to the building, Portsmouth Aviation works with the building facilities management team to install and commission the equipment.



Mail solutions

The company was contacted to identify a solution to the problem of dealing with potentially contaminated mail, which puts mail handling operators at risk and threatens the business continuity of the buildings. Operators were working in difficult, tiring circumstances that made the process extremely inefficient.

Portsmouth Aviation's team proposed a modular system that was qualified at Porton Down. This solution allowed the operators to work in improved conditions, provided significantly increased levels of protection, while still ensuring that they could handle several thousand letters a shift. The system is designed to be fitted with blast protection, screening equipment and detection systems. Several containerised systems have been delivered, as well as a modular unit that can be installed into mail rooms within buildings.



Emergency vehicle systems

Portsmouth Aviation is working with its US partners to provide CBRN collective protection systems for the international emergency response services and military vehicle market. Two types of Collective Protection Systems can be provided – Individual Distribution Systems and Overpressure Systems. Both systems contain filters for the removal of biological aerosols and chemical vapours. A High Efficiency Particulate Arrestance (HEPA) is included



for removing aerosols and microbiological agents. The chemical gas or vapour removal components of the filter sets and canisters remove 99.999% of CBRN agents in gaseous or vapour form.

The latest vehicle system offers a compact design with minimal power requirements, while providing positive pressure, toxic free collective protection to personnel and equipment.

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