

Tradebe Inutec: Innovative Solutions for Tritium



Tritium Handling

Tradebe Inutec is a leading provider of specialist radioactive waste management services. We have successfully undertaken hundreds of projects to treat complex wastes on our secure site at Winfrith.

Tradebe Inutec's Winfrith site is unique in terms of its technology, facilities and its radioactive discharge authorisations for Tritium decontamination and disposal.

We have developed innovative technology solutions for the treatment of most tritium waste types, including desiccants and tritium storage beds (TSBs).

Tradebe Inutec has successfully treated large volumes of desiccant waste from UK nuclear sites. We have disposed ILW desiccant as VLLW having removed a high proportion of the tritium as an aqueous waste and subsequently incinerating it. This is supported by in-house tritium measurement and analysis.

We have in-house capabilities for tritium measurement by scintillation counting of liquid samples, on-line ionisation chamber measurement of gas and airborne tritium, radiographical measurement of tritium distribution over surfaces, mass spectrometry, and dedicated in-plant equipment associated with tritium recycling.

Providing Customers with Flexibility & Value Through:

- Dealing with LLW and Borderline ILW Waste Streams
- Taking Title to Wastes and Reducing Risk
- Delivering a Fast, Responsive Service for Removing & Treating Wastes
- Offering a Low-Risk & Cost Effective Alternative to Customers Self-Performing.



Contact Details

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Tradebe Inutec

Tradebe Inutec provides innovative solutions across the waste management cycle and has established strong long-term relationships with all of the leading nuclear operators including Nuclear Power Utilities, Defence and Government organisations.

Over 30 Years, Our Projects Have Included:

- **LLW & ILW Sampling, Analysis & Characterisation** – providing timely information to enable efficient waste stream treatment of materials such as Sands, Resins and Desiccants
- **Waste Sorting, Segregation & Buffer Storage** – to allow use of extensive network of additional treatment and disposal routes
- **Co-disposal of items within the ILW/LLW Boundary** – combining inventories with wastes from multiple Customers, enabling LLW final disposal
- **Detritiation of TSBs & other Tritiated Items** – incineration and washing technologies for a wide variety of complex tritiated wastes
- **Supercompaction, including Asbestos & Beryllium** – including management of secondary liquids. The only mobile UK Supercompaction facility
- **AETP Sludge Retrieval, Encapsulation & Disposal** - using innovative mixing, retrieval and cement direct pouring techniques
- **Size-reduction & Decontamination of Metallic Items** – projects including 50Te items for smelting and out of scope release
- **Mercury Decontamination** – advanced clean up of contaminated mercury for recycling
- **Provision of Transport Packages and Services** – for movement of LLW & ILW materials.

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