



There have been multiple cases where contaminated scrap metal was unwillingly recycled into newly manufactured products. Beyond the radiological risks and potential consequences in health and economical losses along the supply chain, this type of event could have repercussions with nuclear safety authorities and possibly the media. The systematic detection of potential contamination in scrap metal therefore became an essential step for the recycling sector, as well as for the third parties processing the materials further down the recycling chain. To help monitor incoming materials that should not be processed, NUVIATech Instruments developed a modular set of cost-effective solutions to protect scrapyards operators, workers, equipment and processing sites

Benefits

- Avoid radioactive sources from entering the premises
- Protect the employees and environment
- Avoid widespread radioactive contamination along the supply chain
- A cost effective NuClearance Lite solution for smaller sites
- A high performance NuClearance solution to comply with the IEC 62022:2004 standard
- Easy and continuous monitoring of trucks and cars transporting scrap metal with user friendly software
- In case of alarm, all-inclusive and flexible action kit to search for the contaminated materials
- A wide range of options are available to provide the best fit for each scenario

Characteristics

A scalable solution: from cost-effective highly reliable light version adapted to smaller sites to a high performance detection gate equipped with two large scintillation detectors.

A user friendly kit to refine the radioactive search when the portal monitor's alarm is set off.

Three tailor-made solutions for contamination detection



NuCLEARANCE - high performance modular portal monitor. **Compliant with IEC regulations.** Provides effective radioactive material detection in vehicles. The possibility to add detectors to enhance the performance of the system. Optional accessories are available, such as the reading of vehicle registration plates or gate control systems.



NuCLEARANCE Lite - cost effective portal monitoring system providing essential monitoring to detect radioactive material accidentally hidden in the scrap metal.



NuSEARCH Kit - A choice of detectors designed to easily search for the contaminated material and provide essential information to the nuclear authorities. The combination of the easy-to-use handheld device DoMo and a highly sensitive probe allows the user to **confirm the presence of radioactivity and trigger the adequate response.**