



Decommissioning Nuclear Sites

Removes workers from hazardous environment while saving £5M p.a.

AT A GLANCE DETAILS

Company: Sellafield Nuclear Site
Location: United Kingdom
Industry: Nuclear Management
Activity Type: Mapping

BENEFITS

- Using UAVs over traditional methods help save around **£5 million** per year.
- Over 200 flights conducted, removing the need to put workers at risk.

ISSUE

Taking apart the old nuclear site at Sellafield is tricky because traditional inspection methods pose significant risks to personnel. There was a critical need for a safer and more efficient way to conduct inspections and map areas, especially where there might be lots of harmful radiation, to ensure safety and accuracy without exposing workers to danger.

SOLUTION

Sellafield Ltd has embraced the future of safety and efficiency by deploying cutting-edge drone technology. Engineers plan routes, allowing the drone to zip around obstacles and gather high-resolution images, which are then transformed into precise 3D models. Equipped with radiation sensors, these drones detect hazardous hotspots, ensuring employees are deployed only when necessary, significantly reducing exposure to danger. This innovative approach saves time and money, streamlining inspections that traditionally required extensive preparations and higher costs. Each successful flight not only enhances safety but sets a new standard for efficiency in the industry, showcasing Sellafield's commitment to pioneering advancements in nuclear site management.

BENEFITS



Cost Savings

Using UAVs over traditional methods help save around £5 million per year.



Improved Efficiency

Equipped with advanced sensors, drones provide high-resolution images and precise 3D models. This enables engineers to make informed decisions quickly, improving overall efficiency and setting a new standard for the industry.



Enhanced Safety

Drones navigate hazardous areas, capturing data without putting human lives at risk. This reduces the need for employees to enter dangerous environments, ensuring their safety.



Sellafield Ltd



*According to Sellafield representative Via Flyability.com