

CHALLENGES

Radioactive waste and material characterization obligations in a facility encourage operators to **implement measurement stations comprising of multiple instruments**. Station design depends on container composition and on the targeted characterization information. Complex stations require specific efforts to ensure the safety of container handling, and data traceability.

SOLUTION

Our engineering, measurement and automation skills are all applied in the design of characterization stations.

We have for instance designed and manufactured, for one of the biggest actors in the nuclear field, a station including:

- Two automated gamma spectrometry instruments for control
- One manual gamma spectrometry instrument for expertise
- Three gamma spectrometers for screening
- Two calorimeters to complement gamma spectrometry and quantify radioactive materials with a higher accuracy
- Mechanical systems and their automation
- Electronics, control-command
- Manufacturing, tests, qualification and installation

BENEFITS

Multiple characterizations

- Measurement stations employ diverse technologies and propose various functions: detect the presence of specific isotopes inside a container, determine the mass of radioactive materials and their isotopic distribution, etc

Safety and traceability

- Automation limits operators' exposure to radiation, handling errors, the carriage of heavy loads
- Recording and processing of measurement data

ENGINEERING & CONSULTANCY



STUDIES AND EXPERTISE

Pre-studies based on your needs

CUSTOM DEVELOPMENTS

Let's Innovate together

AUTOMATION CAPABILITIES

Mechanical and Handling Systems

NUCLEAR SAFETY

Coverage of your Operational Constraints

MULTI-DISCIPLINARY TEAM

A specialist for all your needs