



systems | services | solutions

Portable Non-Destructive Assay

High Quality Systems and Services

PSC can rapidly deploy its highly trained Portable Non-Destructive Assay (PNDA) teams at customer sites to perform compliant characterization services.

On-site surveying & measurement technology can be utilized for short term or project specific deployment. PSC's customer-focused services and solutions provide rapid and cost effective characterization data without the capital expenditure for a single use item.

PSC provides full technical and operational support, with personnel who have worked for many years within the operating infrastructure of nuclear facilities.

The PNDA services teams utilize multiple detection techniques including gamma spectroscopy (low and high resolution) and neutron counting.

To support technicians and scientists in the field, PSC has developed its own product range of flexible ruggedized detector deployment platforms that have been designed around the specific needs of site project teams.



Features

- Highly trained, highly experienced personnel
- Rapid survey time; high throughput
- Mobile operation - deployable in all terrains
- All data acquisition hardware and analysis software included
- Operating procedures compliant to site safety and rigorous QA protocols
- Expert data analysts can quantify the presence of specific isotopes
- Uranium enrichment and plutonium Isotopic measurement capability
- TechniCART™ and motorized UTV options available
- Factory calibration and maintenance support

Applications

- TRU / LLW Segregation
- Waste Characterization
- Small or Large Campaigns
- Assay of Drums and Crates
- Retrieval and Repackaging
- Nuclear Safeguards & Security
- Uranium and Plutonium Measurements

Benefits

- Best-in-Class Portable NDA Services
- Rapid deployment on-site
- Cost effective characterization

Specifications / Options

- | | |
|---------------------------|---|
| Radiometric Techniques | <ul style="list-style-type: none">• Far Field High Resolution Gamma Spectroscopy (for primary characterization)• Low Resolution Gamma Spectroscopy (used for initial surveying)• Total Neutron Counting (available as option depending on waste stream) |
| Typical Survey Throughput | <ul style="list-style-type: none">• Drums (55- or 85-Gallon): 2-3 per hour• Crates (e.g. B25, SWB): 1 per hour |
| Platform Options | <ul style="list-style-type: none">• TechniCART™ (rugged light weight platform with multi-detector capability)• UTV600™ (all-terrain Utility Vehicle with integrated computer controls in cab) |
| Gamma Detector Options | <ul style="list-style-type: none">• HPGe Detector with liquid nitrogen cooling (ORTEC GEM or equivalent)• Mechanically cooled compact HPGe (Ortec TranSPEC or equivalent)• NaI detectors for low resolution “hot-spot” detection / identification |
| Gamma Imaging | <ul style="list-style-type: none">• RadScan 800 4Pi Gamma Imager – available as option |
| Neutron Detector Options | <ul style="list-style-type: none">• He-3 neutron proportion counters with polyethylene moderator slab |
| Data Analysis Options | <ul style="list-style-type: none">• Ortec Gamma-Vision™/ Isotopic-32™• Eberline Services SNAP™• PC-FRAM• Peak Doctor (where available) |



Contact

USA:

Pajarito Scientific Corporation
2532 Camino Entrada
Santa Fe, NM 87507
USA

Tel: + 1 505 424 6660
Fax: + 1 505 424 1109
www.PajaritoScientific.com
info@PajaritoScientific.com

UK / Europe:

Pajarito Scientific Corporation
Crabtree Hall Business Centre
Little Holtby, Northallerton
North Yorkshire, DL7 9LN
United Kingdom

Mobile: +44 (0) 7522 372 510
Tel +44 (0) 1748 812 262
Fax +44 (0) 1609 748 571
uksales@PajaritoScientific.com

Asia:

PBC Asia
19C, Li Hua Building
Zhong Hai Ya Yuan, Bei Wa Lu
Beijing 100037
China

www.pbcasia.com.cn
mail@pbcasia.com.cn
Tel: + 86 (0) 10 8854 1985
Fax: + 86 (0) 10 8854 1985
Mobile: + 86 13910296557



systems | services | solutions