

# Radiation Protection Adviser (RPA) Services for Thickness and Level Gauges



Thickness and level gauges are widely used measurement system in a variety of industrial settings. These gauges often use ionising radiation to monitor material thickness, density and fill levels in real time.

Gauges for thickness, density and level measurements are frequently used to maintain product quality in continuous production lines. The non-contact, reliable measurements can be utilised in line conveyors to ensure consistency across products. This has applications in manufacturing processes such as:

- Food and beverage— monitoring fill levels of bottles and other vessels
- Paper and plastics— thickness measurements of materials

Gauges can incorporate either X-ray generators or sealed radioactive sources. Both produce ionising radiation and require appropriate control measures to ensure the safety of operators and other workers who may be in the vicinity.

## Employers' Responsibilities

The use of ionising radiation places employers under the remit of the UK Ionising Radiations Regulations 2017 (IRR17), enforced by the UK Health & Safety Executive (HSE). These regulations apply to any employer carrying out work involving ionising radiation. Gauges containing sealed radioactive sources may require a permit under The Environmental Permitting England and Wales (Amendment) Regulations 2016 (as amended 2019) (EPR16).

Employers are required to fulfil their legal obligations under IRR17 and must

appoint and consult a qualified Radiation Protection Adviser (RPA) who can support with regulatory compliance.

Amentum can support you in meeting the regulatory obligations of IRR17 and EPR16 and implementing effective radiation protection arrangements.

## Our Services

Amentum has a Corporate RPA Body [accredited by the HSE](#) and able to offer expert radiation protection advice to UK organisations. Amentum will help you fulfil your legal responsibility to provide a safe workplace for your employees.

We have a range of services available, these include:

- Annual RPA appointment, with advice available on a call-off basis
- Preparation of local rules and radiation risk assessments for the operation of gauge systems
- Annual radiation safety audit, including a report and recommendations for improvements
- Advice on radiation monitoring instruments, their use and establishing a suitable radiation monitoring programme
- Delivery of training courses relevant to your operations, including Radiation Awareness and Radiation Protection Supervisor training
- Leak testing of sealed radioactive sources

- Development of contingency plans and support for rehearsal exercises
- Advice on personal dosimetry (alongside our [Approved Dosimetry Service](#))

## Our Experience

At Amentum, we have a team of specialists with extensive experience delivering RPA services to a wide variety of clients across all industry sectors.

We have proven experience supporting clients in establishing and maintaining safe and compliant radiation protection practices. Services we have provided to clients include:

- Support for HSE Consent Safety Assessment applications
- Provision of document templates and advice on establishing and maintaining a robust radiation management system
- Critical Examination of systems that use ionising radiation
- Bespoke toolbox talk slide packs

We are committed to delivering high-quality support to every client. All our RPA service agreements are tailored to meet the specific business needs of our clients. This enables us to consistently deliver reliable, bespoke solutions to our customers.

## Contact

To discuss your RPA requirements in confidence or for more information on the applicability to your business or premises, please contact:

Jen Barnes  
Radiation Protection Adviser  
e: [jen.barnes@global.amentum.com](mailto:jen.barnes@global.amentum.com)  
e: [RadProtect@global.amentum.com](mailto:RadProtect@global.amentum.com)  
t: +44 (0)1925 974940

The Amentum UK RPA team is only accredited to provide advice under UK Regulations.



Source: [www.fagus-grecon.com](http://www.fagus-grecon.com)



Source: [www.heuft.com](http://www.heuft.com)



Source: [www.krones.com](http://www.krones.com)