

Radiation Protection Adviser (RPA) Services for X-ray Fluorescence (XRF) Equipment

XRF analysis is a technique for the analysis of materials, it utilises ionising radiation to determine material composition in a fast, non-destructive way across a wide range of industries.



The use of XRF equipment for quality assurance and analysis is widespread across a number of industries. For example in:

- Manufacturing – quality assurance and composition analysis
- Research and development – laboratory based analysis
- Metal and scrap industries – identification of alloys for sorting
- Jewellery, art and heritage – verification of materials and artefact composition

All XRF systems produce ionising radiation and require appropriate control measures to ensure safe operation for operators and other workers who may be in the vicinity.

Employers' Responsibilities

The use of X-ray generators 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.

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.

Failure to comply with the requirements of IRR17 can lead to enforcement action

by the HSE, as well as posing a risk to operators and other workers.

Amentum can support you in meeting these obligations and implementing effective, practical 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
- Provision of Radiation Awareness and Radiation Protection Supervisor training
- 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
- Advice on designation of areas and appropriate signage
- Personal dosimetry advice, as per the [sector guidance](#), and alongside our [Approved Dosimetry Service](#)

- Development of contingency plans and support for rehearsal exercises

Our Experience

At Amentum, we have a team of specialists with extensive experience of 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, ensuring radiation exposures are kept as low as reasonably practicable (ALARP). Services we have provided to clients include:

- Support for HSE Consent Safety Assessment applications
- Critical examination of X-ray systems
- Provision of document templates and advice on establishing and maintaining a robust radiation management system
- 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:

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



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