

Local rules for use of Ionising Radiation: Glossary and Bibliography

Glossary

RPA The University's Ionising Radiation Protection Adviser

RWA The University's Radioactive Waste Adviser. (NB As the RPA also undertakes this role, reference to RPA throughout the Local Rules includes RWA)

UIPRO The University's Ionising Radiation Protection Officer

DIRPS Departmental Ionising Radiation Protection Supervisor

DHSO Departmental Health and Safety Officer

HSLO Health and Safety Liaison Officer

WHSW Workplace Health, Safety and Wellbeing

OH Occupational Health

HSE Health & Safety Executive

EA Environment Agency

BAT Best Available Techniques: under the Environmental Permitting Regulations (EPR). Permit holders are required to demonstrate that they use best available techniques (BAT), which means the most effective and advanced techniques to reduce emissions and the impact on the environment as a whole.

- "Technique" means the technology used by which the installation is designed, built, maintained, operated and decommissioned,
- "Available technique" mean those developed to allow relevant industrial implementation in the sector, taking into consideration the costs and advantages, used or produced inside the Member state in question, as long as reasonably accessible to the operator.

ALARP As Low as Reasonably Practicable: This involves weighing a risk against the trouble, time and money needed to control it. To avoid having to implement a control, the duty-holder must be able to show that the time, trouble and expense would be grossly disproportionate to the benefits of the risk reduction that would be achieved. In deciding whether the risks are ALARP an enforcing body would make a comparison between the control measures a duty-holder has in place and the measures they would normally expect to see in such circumstances (i.e. relevant good practice, such as HSE Approved Codes of Practice, HSE and industry guidance).

HPA Health Protection Agency

ACoP Approved Code of Practice

IRR17 Ionising Radiations Regulations 2017

EPR16 Environmental Permitting Regulations 2016

UUK Universities UK (was CVCP, Committee of Vice Chancellors and Principals)

AURPO Association of University Radiation Protection Officers

BSI British Standards Institution

SRCL Company used by University to dispose of radioactive materials

Permit Generic term to describe the range of licences, certificates and authorisations held by the University allowing the holding, use and disposal of radioactive substances.

CDG Carriage of Dangerous Goods Regulations

TLD Thermoluminescent dosimeters

GCs Gas chromatographs

Radioisotopes: Generic term covering radionuclides, isotopes etc.

Open Source: Generic term covering unsealed sources, isotopes etc.

Closed Source: Generic term covering sealed sources etc.

MBq	Megabecquerels
KBq	Kilobecquerels
mCi	Millicuries
mSv	Millisieverts
μCi	Microcuries
ml	Millilitres
mg	Milligrams
mm	Millimetres
cm	Centimetres

Bibliography and Useful Publications

University of Essex Ionising Radiation website (documents are restricted): [Ionising radiation safety | University of Essex](#)

Ionising Radiation Regulations 2017 ([IRR 17](#)) See HSE website and search for a free downloadable copy of L121.

Environmental Permitting Regulations 2016 ([EPR 2016](#))

Scope of and Exemptions from the Radioactive Substances Legislation in England, Wales and Northern Ireland - Guidance Document -August 2018-free to download from the Government web site. Search for 'Environment Agency'; RSR, Guidance'

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 ([SI 2009 No 1348](#))

Health and Safety Executive (HSE) Guidance

- [Approved Code of Practice: Work with Ionising Radiation](#) (The UIRPO also has a copy of this)
- Website: www.hse.gov.uk/radiation/ionising/index.htm

AURPO Guidance (WWW.aurpo.org)

Laboratory Workers handbook

Notes for Training Radiation workers in Universities

- Transport of Radioactive materials by Road
- Periodic Testing of Contamination Monitoring Instruments
- Working with Ionising Radiations in Research and Teaching

British Standards (BSI)

- ISO 9978:1992(E) Sealed radioactive sources: Leakage test methods
- BS5288: 1976 Sealed radioactive sources: Specification

Other guidance

- Radionuclide and Radiation Protection Data Handbook 2002” D Delacroix et al (The DHSO has a copy of this).