



Ionactive Consulting Limited,

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↗ ionactive.co.uk

Mark Ramsay BEng MSc MSRP, CRadP

Radiation Protection Adviser

Chartered Radiation Protection Professional

Qualified Expert in Radiation Protection

Radioactive Waste Adviser

Personal Information	<ul style="list-style-type: none">▪ Nationality: British▪ Age: 48
Profile	<p>Mark Ramsay is a keen and dedicated safety professional practicing as a Radiation Protection Adviser (RPA), certificated by RPA2000. His practical and advisory experience has been gained within the nuclear and non-nuclear (industrial / medical / security) sectors. Mark has utilised this experience with relevant qualifications, accreditations, and professional memberships to ensure delivery of radiological protection advice. This advice is administered to clients through his company Ionactive Consulting Limited. The scope of the advice given spans many different areas including a nuclear research reactor, irradiators, accelerators, a synchrotron, x-ray radiography (medical and industrial), oncology systems, x-ray security systems NORM & geological specimens, radioactive waste management, oil and gas, sealed source security, radiation protection management and training. Whilst most of the clients are UK based Mark has also provided advice to companies in Qatar, UAE, Bahrain, New Zealand, Ireland, Libya and Angola. Mark is also a recognised trainer of UK Emergency Services (CBRN / HAZMAT / DIM) – Radiation Protection Supervisor courses. Mark is also a certificated Radioactive Waste Adviser (RWA).</p> <p>RPA2000 is the UK National Body, recognised by the UK Health & Safety Executive (HSE) which assesses core competency of individuals who practice as a Radiation Protection Adviser. Renewed every 5 years by 'continual professional development' with peer review.</p>
Summary of Qualifications	<ul style="list-style-type: none">• RPA2000 Certification (Latest No. 00001672, dated 1/11/2016)• RWA Certification (Latest No. 0000200, valid until 31/5/2022)• MSc Radiation and Environmental Protection• BEng Environmental Engineering and Resource Management

	<ul style="list-style-type: none"> • NEBOSH Diploma in Occupational Safety and Health (Part 1) • NEBOSH Certificate in Occupational Safety and Health • National Radiological Protection Board (NRPB) Emergency Planning (Now HPA) • HPA Radiation Protection Update Courses
Full-Time Professional Experience as an Employee	<p>▪ <i>Imperial College London (1997-2004)</i></p> <p>Mark was principal RPA for Imperial College London and enjoyed the variety and depth of work across its 12 sites. He offered the full range of RPA services regulated under <i>IRR99</i>, <i>RSA93</i> and <i>IRMER2000</i> (which are derived from international standards such as ICRP and IAEA). He worked with sealed and unsealed sources, x-rays, accelerators, a nuclear reactor, radioactive waste and decommissioning. Advice and practical guidance on active and passive dosimetry, practical radiation protection, restriction of exposure etc was regularly given to academics, researchers and students.</p> <p>▪ <i>AWE Aldermaston (1994-1997)</i></p> <p>Mark spent time as a 'Health Physics and Safety Specialist' at the Atomic Weapons Establishment (AWE) Aldermaston. This post was a natural career progression which included attendance on a 2-year MoD <i>Health Physics Training Programme</i>. The work at AWE was distinctly different from more recent work but utilised the same radiation protection concepts. Distribution of dosimetry, barrier clearance monitoring, workplace surveys, safety case assessments were typical practical tasks undertaken.</p> <p>▪ <i>RWE NUKEM / Amersham (various times 1991-1995)</i></p> <p>After spending 1989-1991 as a full time Radiation Surveyor at Amersham (where he developed his practical skills), Mark had a variety of placements back at Amersham and RWE NUKEM over the next four years whilst obtaining more qualifications. This work including decommissioning support and radiological monitoring on several production and MoD sites.</p> <p>▪ <i>Amersham (1989- 1991)</i></p> <p>Marks radiation protection experience started at Amersham after leaving school with A-levels. This work introduced him to practical radiation protection concepts and set his career in motion.</p>
Examples of Recent Client Work by Ionactive Consulting Limited	<p>▪ <i>IonActive Consulting limited (2001 onwards)</i></p> <p>Mark set up Ionactive Consulting Limited as an independent consultancy to offer RPA / RWA advice to many users (generally non-nuclear sector) including Universities, Museums, Industry, Medical, Security and Consultancies. The company fully incorporated during July 2005. Further details can be found at www.ionactive.co.uk</p>

Some typical examples of RPA Client Work.

Reactor Facility

The company has been RPA to the Imperial College London CONSORT research reactor at Silwood Park. CONSORT is on a nuclear licensed site (NLS) and so Ionactive was fully involved in ensuring that the 36 license conditions are complied with, operating rules are suitable and effective, radioactive waste management is appropriately managed (Ionactive acts as a Qualified Expert in this regard). Mark Ramsay still provides advisory services to Imperial in support of their onsite RPA.

NORM / Geological Specimens

Ionactive is RPA to a UK client which holds the largest inventory of naturally occurring radioactive materials (NORM) in the form of geological specimens. The company has provided advice on monitoring, dosimetry, radioactive material stores, dose assessment of radon levels, and provided advice during regulator inspections.

Ionactive has been involved in numerous NORM related projects in both the UK and Middle East. Recent projects have included the decommissioning of a NORM (Po-210) fume filter and the decontamination of a large NORM contaminated building. These projects in particular required a strictly controlled working environment, controlled area and buffer (change) zones, personal air sampling (measurement and dose assessment), selection and use of suitable PPE/RPE, monitoring for alpha contamination on many different types of services, sentencing and clearance monitoring etc.

NORM related projects have also been undertaken in Qatar where radioactive material in Slag from the Steel Industry was investigated.

Medical X-ray / Radiotherapy Facilities

Ionactive is RPA to a world leading company who design and build linear accelerators for medical radiotherapy treatment. Ionactive provides RPA support to their UK manufacturing site as well as for the design and build of treatment bunkers around the world. Some unique instrumentation problems are supported (e.g. pulsed x-ray sources are used) and the regular monitoring and assessment of neutron doses is required due to the accelerator energies used (in some cases up to 25MV).

Ionactive is RPA to a world leading company supplying medical diagnostic x-ray systems. A full RPA service is offered as well as bespoke project work as required. Recently Ionactive has been involved in a project to ensure their 10,000 service engineers (world-wide) have suitably dosimetry provision which they can take with them where ever they are in the world.

X-ray Security Systems

Ionactive is RPA to two of the UK's largest manufacturer / suppliers of x-ray / accelerator security equipment. Work has involved general RPA duties as well as equipment critical examinations and design calculations.

Sealed radioactive source security

Ionactive has acted as a consultant to a UK Government Department looking at sealed source security (including storage locations, material accountancy and risk assessment).

Large Irradiators

Ionactive is RPA to the largest operator of sterilisation plants in the UK which involves providing advice for 5 Co-60 irradiators and 3 electron / proton beam systems. Whilst these systems do not reside on nuclear sites, their protective systems, plant controls and management systems need to be comparable (sites typically contain > 10 PBq, delivering product dose rates of 10kGy/ treatment). Ionactive has provided advice on their dosimetry system, suitable monitors, change control procedures, contingency, site exercises and planned maintenance.

The RPA is also involved in the Co-60 loading and unloading procedures which are considered a critical task for each site – requiring the support of a dedicated team of operatives, engineers and managers.

Non Destructive Testing (NDT)

Ionactive is RPA to several NDT companies in the UK who use radioactive sources (Ir-192, Se-75, Co-60) and accelerators for NDT in the nuclear and non-nuclear sector. Ionactive is also RPA to several companies which support the oil and gas industry, and has recently completed two projects to build NDT enclosures on a massive scale for radiography of 10's tonne objects. Ionactive has designed the facility, undertaken the shielding calculations, designed the interlocks system and written the operating procedures. In addition, as RPA, Ionactive is ensuring suitably dosimetry and monitoring is available, local rules and risk assessments are conducted and that adequate radiation protection training has been undertaken.

Radioactive Waste Adviser (RWA)

Mark Ramsay has been involved in providing advice and guidance to a number of sites regarding the use of radioactive materials and the generation of radioactive waste (including BAT assessments, radiological risk assessments, environmental discharge assessments and similar). During 2016 Mark was involved in the relocation of a site which held over 10,000 radioactive sources in sealed and unsealed forms. The work involved full decommissioning planning and work for

	<p>environmental permit surrender, as well as applications for permits for the new site.</p>
Additional Professional Activities	<ul style="list-style-type: none"> ▪ Council Member of the UK Society for Radiological Protection (SRP) Mark spent three years as a member of this leading UK Society and served on its Governing Council. ▪ Delivering talks / conference papers and similar Mark has delivered conference papers and talks on various aspects of radiation protection. ▪ Ionactive Consulting Limited Website The new 2019 Ionactive website at www.ionactive.co.uk contains a substantial range of free resource for all who have an interest in radiation protection. The site continues to be a substantial project and currently offers a radiation protection news service, a FAQ section, a glossary, links and much more.
Training Activities	<ul style="list-style-type: none"> ▪ Radiation Protection Training Through Ionactive, Mark provides radiation protection training to many of its clients and other companies besides. This training includes specifically designed onsite training as well as running a monthly 2 day residential training courses at the Ionactive training venue. Ionactive is a recognised provider of radiation safety training services (CBRN) for the UK Police and Fire and Rescue Service. Ionactive routinely provides radiation safety courses in Dubai (UAE) to Radiation Protection Officer (RPO) level. 3-5 courses are run in Dubai each year.
Professional Memberships	<ul style="list-style-type: none"> ▪ Member: Society for Radiological Protection (MSRP) ▪ Affiliate Member: Association of University Radiation Protection Officers ▪ Chartered Radiation Protection Professional (CRadP)

Please feel free to visit the Ionactive Consulting Site for more information

www.ionactive.co.uk



Mark Ramsay – RPA2000 Certificate

Certificate of Competence to be a Radiation Protection Adviser

The Board of RPA 2000 certifies that

Mark Stuart Ramsay

meets the Criteria of Competence specified by the Health and Safety Executive for the purposes of the definition of a Radiation Protection Adviser in the Ionising Radiations Regulations 1999.

Holding a Certificate from an Assessing Body does not, of itself, make the holder a suitable RPA for a particular employer to consult, as required by Regulation 13(1). It is a recognition of competence, sufficient to show that the individual satisfies the general definition of an RPA in Regulation 2.

A handwritten signature in black ink, appearing to read "David Sutton".

Chairman of Board

A handwritten signature in black ink, appearing to read "Helen Bone".

Assessment Secretary

This certificate is valid for five years from 1 November 2016

Certificate No: 00001672

RPA 2000

This certificate is issued by RPA 2000, an Assessing Body recognised by the HSE,
DS009, Dartington Hall, Dartington, Devon, TQ9 6EN



Chartered Radiation Protection Professional

Founded 1963



Royal Charter 2007

The Society for Radiological Protection

*Established to promote the science and art of radiation protection and allied fields
for the public benefit*

*By the virtue of academic qualifications,
professional training and experience*

Mark Stuart Ramsay

*has been registered by
The Society for Radiological Protection,
and is hereby authorised, whilst so registered,
to use the title of*

**Chartered Radiation
Protection Professional**

Sheila Liddle
President

B. D. Smith
Secretary

*Dated
April 2008*

Certificate No. 554





Radioactive Waste Adviser (RWA)

Certificate of Competence to be a Radioactive Waste Adviser

The Board of RPA 2000 certifies that

Mark Stuart Ramsay

meets the Criteria of Competence specified by
the UK Environment Agencies for the purposes of the definition of a
Radioactive Waste Adviser in support of radioactive materials and waste
legislation for the protection of the environment.

*Holding a Certificate from an Assessing Body does not, of itself, make the holder
a suitable RWA for a particular employer to consult. The permit holder is
responsible for ensuring that any Radioactive Waste Adviser appointed is 'suitable'
to give
relevant advice on that permit holder's specific business*

Chairman of RPA 2000 Board

Assessment Secretary

This certificate is valid from 1st June 2017 and will expire on 31st May 2022,
unless formally extended in writing by RPA 2000.

Certificate No: W – 0000200

RPA 2000

This certificate is issued by, and remains the property of, RPA 2000,
an Assessing Body recognised by the UK Environment Agencies,
RPA 2000, DS009, Dartington Hall, Dartington, Devon, TQ9 6EN
Company No 03925117

University of Surrey



Having pursued a programme of study
and having satisfied the examiners in
Radiation and Environmental Protection

Mark Stuart Ramsay

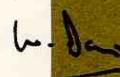
was awarded the degree of **Master of Science**



Patrick J Dowling

Vice-Chancellor

97P4915



W. J. Dan

Secretary and Registrar

Awarded 2 December 1997

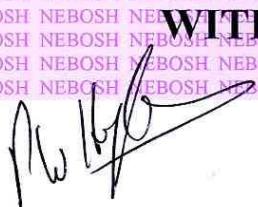
NEBOSH

The National Examination Board in Occupational Safety and Health

NATIONAL DIPLOMA IN OCCUPATIONAL SAFETY AND HEALTH

Part 1

This is to certify that:
MARK STUART RAMSAY
has satisfied the Examiners and was
awarded this Diploma on: **8 September 1999**



Chairman



Chief Executive

Master Log Diploma Number: **A01512**



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