

# Keith Pearce PhD, MBA, MSc, FEPS

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A self-employed contractor, I have over twenty five years' experience working in nuclear environments as a lecturer, mathematical modeller and emergency planning manager. My communication and influencing skills are excellent and I have a wide technical background backed by an unusually broad education and experience. My experience combines technical skills, teaching & coaching, managing emergency preparedness and response at ten nuclear sites and a corporate centre and also networking/influencing within government, Local Authority and Emergency Services circles.

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## Career history in brief

Dates	Company	Role
Oct 2014 - present	Katmal Limited	Consultant and Owner
2011 – Sept 2014	Magnox Limited	Head of Emergency Planning Strategy
2003 – 2011	BNFL Magnox & Magnox South	Head of Emergency Planning
1990 - 2003	Magnox & predecessors	Engineering Lead
1987 – 1990	Royal Naval College Greenwich	Senior lecturer
1985 – 1987	King's College London	Post-Doctoral Research Associate

## Education and development

BSc Special Physics, King's College, University of London.	1981
PhD Nuclear Physics, King's College, University of London.	1985
MBA University of Warwick, Business School,	2004
MSc Emergency Planning Management, Leicester University,	2006
BA (Open), Open University,	2010
Prince 2 Practitioner	2014

## Professional Qualifications

Chartered Physicist, Member of Institute of Physics  
Chartered Radiological Professional, Member Society Radiological Protection  
Fellow of the Emergency Planning Society

## Interests

My hobbies include watching football (Portsmouth FC, Forest Green Rovers and England), gardening (I have a large allotment), photography, travel, keeping fit and history (I am working towards an OU BA in History).

I have made contributions to the management and strategic direction of a school (Governor, including periods as Chair) , a village hall (Treasurer and Secretary), a community radio station (Technical Lead and Treasurer) and a village (Parish Councillor) thus widening the range of people and organisations I have worked with and learning a great deal in the process.

## Career History in more detail

**Currently**, I am a Director and sole owner of Katmal Limited and am available for consultancy work. I have a full driving licence and a British passport. I was security cleared to SC level at Magnox Limited.

In this role I have completed projects for two new build companies producing Safety Case, Emergency Planning Strategy and ALARP documents.

**Emergency Planning within Magnox (until October 2014)**. I led the Company's Emergency Planning Services for a number of years responsible for the readiness of 10 nuclear licensed sites to cope with nuclear emergencies. I managed a team of up to seven emergency planning professionals. The role involved a considerable body of knowledge and liaison with a wide range of people including company responders, Emergency Services, Local Authorities and Government bodies.

More recently I concentrated on ensuring that the Company has appropriate emergency arrangements at all stages in the site lifecycle. This included steering the highly controversial process of reducing emergency response provisions as the risks at decommissioning sites reduce. This process requires self-confidence, analytic and strategic thinking, good communication skills, both oral and written, and the ability to challenge and change peoples' perceptions and the Company's outlook and processes.

Within the Company's emergency scheme I was a CESC<sup>1</sup> Emergency Health Physicist, responsible for understanding the radiological implications of any emergency and advising countermeasures to protect the public; an Assistant CESC Controller, the most senior authorised post on standby in the scheme, leading the Company's initial response to an emergency; and a Media Technical Briefer trained to explain the technical background of an event to the world's media.

**International Experience.** I have worked in Obninsk and Moscow, Russia (four exchange trips 2000-2003) and hosted visits to the UK of Russian Emergency Planners and Atmospheric Dispersion experts. I have also worked in Chernobyl, Ukraine (IAEA expert visit 2011), Phillipsburg, Germany (WANO expert visit 2012) and Kozloduy, Bulgaria (WANO expert visit 2012).

**Previously at Magnox and its predecessor Companies** I worked as a mathematical modeller, developing models of the movement of radioactivity in the environment and using them to support safety cases and discharge applications. This work included significant collaboration with other industry and government experts, in the UK and abroad. This requires technical expertise and good communication skills.

**As a Senior Lecturer at the Royal Naval College** I taught radiation protection, atomic and nuclear physics, shielding and emergency planning up to MSc level. I also managed the Civil Service's Graduate Entry Scheme for Health Physicists and was the Radiation Protection Supervisor (RPS) for two experimental facilities.

**At King's College, London** I worked in a team from King's, Birmingham and York Universities using charged particle induced reactions to explore the properties of atomic nuclei. This included periods of intense work in national facilities working as part of a team under pressure and also long periods of working independently to extract and analyse data.

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<sup>1</sup> CESC – Central Emergency Support Centre which coordinates the off-site aspects of a response to an emergency and provides technical and logistical support to the affected site.