

Decontamination & Dismantling of Nuclear Facilities Seminar

Understanding the technical processes from shut down to end state

Thursday 8 – Friday 9 December 2011
Prospero House, London, UK

An opportunity to learn in-depth about

- Applying different **decontamination techniques** to your nuclear operations
- Implementation and use of new **decontamination technologies**
- Case studies including **Dounreay**
- **Reusing material** onsite
- Exploring **new waste routes** including V/LLW and VLLW
- Cleaning options including **onsite burial** of waste
- **Dismantling reactors** including cutting techniques

Your decommissioning & waste expert lecturers include

Steve Beckitt

Site Project Manager

Dounreay

Paul Atyeo

Harwell Decommissioning Project Manager

Harwell Research Sites Restoration Ltd

Jim Cochrane

Principal Policy Officer

SEPA

Lorimer Fellingham

Manager, Waste & Environment

Nuvia Limited

Tony Howden

Regional Manager

Nuvia Limited

David Lee

Technical Director

Inutec Limited

What past attendees have to say about previous IBC Energy Nuclear Courses...



*An excellent event, which I thoroughly enjoyed. Good organisation, very friendly people attending and organising course. Excellent and knowledgeable speakers **M Murray, Babcock Marine***

*Excellent event – fully met expectations for refresher training **A Moodie, EDF Energy***

*An interesting, well run event providing opportunities to benefit from the experience of others in the industry. Excellent venue **S Gilbert, Babcock***



For the latest information and to register, visit:

www.ibcenergy.com/nucleardismantling

or phone: **+44 (0)20 7017 5518** Email: **energycustserv@informa.com**

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Understanding the technical process

Decontamination & Dismantling of Nuclear Facilities

This comprehensive two day seminar is designed to bring nuclear industry beginners and established professionals up to date with the key processes involved in decommissioning including:

- Application of regulatory practices
- Decontamination techniques and technologies
- Procedures involved in dismantling reactors
- Waste routes after decontamination
- Nuclear facility demolition

Featuring:

- **Quick fire exchange:** your chance to get to know fellow delegates better
- **Practical workshop:** apply your knowledge to a real life decommissioning scenario and compare with your peers the action you would take
- **Mini-movie:** see in action an example of a radioactive contaminated project

Who should attend:

- Decommissioning operations directors
- Government departments and agencies focused on
 - Waste
 - Decommissioning
- Decommissioning managers
- Radiation and health protection agencies
- Technical experts
- Nuclear engineers
- Radiation protection advisers
- Environmental consultants

IBC Nuclear Events Promotional Opportunities

There are a number of sponsorship opportunities associated with IBC Energy's Nuclear Events giving your organisation the chance to demonstrate your expertise, products and services in line with the training course objectives.

For further information or to discuss individual requirements, please contact **Lauren Wilcox** on **+44 (0)20 7017 7674** or e-mail **Lauren.wilcox@informa.com**

Day 1 - Thursday 8 December 2011

08.30 Registration and coffee



09.00 **Chairman's welcome and quick fire exchange**
Take this opportunity to introduce yourself and learn about your peers. The course objectives will be outlined at the end of this session



Understanding the key fundamentals: regulations and decommissioning process

09.10 **Explaining the role of the relevant authorities**

- The policy framework as applied to decommissioning of nuclear licensed facilities in the UK
- Are there differences in the regulatory framework for an operating and decommissioning site
- Overview and differences in the duties and responsibilities of UK Government, the nuclear safety, environmental and planning regulators
- Site restoration and an integrated approach to waste management

Jim Cochrane, Principal Policy Officer, **SEPA**

09.30 **Applying regulation to practice**

- Revoking a nuclear site authorisation or permit – key issues and expectations of SEPA
- Interactions between SEPA's revocation policy and the HSE delicensing policy
- Regulations as applied to managing controlled and radioactive wastes
- Regulation of buried infrastructure
- Regulation of leaks and escapes, contaminated land and groundwater from current and past practices

Jim Cochrane, Principal Policy Officer, **SEPA**

10.00 **Decommissioning kept simple – a Dounreay experience**
Steve will be talking about his experiences of decommissioning as Site Project Manager at Dounreay. His presentation will include processes involved in decontamination and dismantling.
Steve Beckett, Site Project Manager, **Dounreay**

10.40 Discussion session

11.00 Morning tea

Decontamination: technologies, techniques and case study

11.30 **Decontamination technologies**

- Dealing with metallic
- Dealing with non-metallic components
- Decontamination of buildings and structures
- Controlling contamination

Lorimer Fellingham, Manager, Waste & Environmental Waste Management, **Nuvia Limited**

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Processes from shut down to end state

- 12.10 **Decontamination techniques**
- Monitoring clearance levels
 - Management of hazardous waste components
 - Clearance and disposal of radioactive waste

Lorimer Fellingham, Manager, Waste & Environmental Waste Management,
Nuvia Limited

12.50 Discussion session

13.00 Lunch

14.00 Practical Case Study Comparison

UK vs France

Compare and contrast the decontamination, dismantling and demolition techniques used at key sites. You will hear practical examples of how techniques and technologies are used.

15.00 Discussion session

15.15 Afternoon tea

15.45 Practical Workshop

Applying knowledge to practical case studies

This workshop will allow you to apply the practical knowledge you have gained during the course and apply it to a real life nuclear scenario.

Tony Howden, Regional Manager,
Nuvia Limited



17.45 Discussion session

18.00 Chairman's closing remarks and end of day 1

Day 2 - Friday 9 December 2011

09.00 Morning coffee

09.25 Chairman's opening remarks

Dismantling and clearance: waste routes, site clearance and demolition

09.30 Dismantling reactors

- Understanding the dismantling procedure
- Cutting techniques
- Removal of large components
- Applying different procedures to different plants

10.10 Exploring the waste routes

- Assessing the characteristics of the waste
- Packaging, storing and transporting waste
- Disposal requirements of waste
- Monitoring the impact of Exemption Order Review

Lorimer Fellingham, Manager, Waste & Environmental Waste Management,
Nuvia Limited

10.50 Discussion session

11.00 Morning tea

11.30 Waste management hierarchy

- Understanding the hierarchy
- Monitoring waste streams
- Waste minimisation
- Operational waste strategies and recovery

David Lee, Technical Programme Director,
Inutec Ltd

12.15 Practical Case Study

Tritium Laboratory strip out - Cardiff

David will be talking about the strip out of the Tritium Laboratory in Cardiff and the technical processes involved for removing waste and sorting, segregating and treating waste

David Lee, Technical Programme Director,
Inutec Ltd

13.00 Lunch

14.00 Radioactive land remediation and final site clearance

- A case study of a large scale radioactive land remediation project
- Waste management options in relation to radioactive land remediation
- An overview of UK and international nuclear site final clearance and delicensing, with examples

Paul Atyeo, Harwell Decommissioning Project Manager,
Research Sites Restoration Ltd

15.00 Mini - movie

A short film demonstrating an example of radioactive contaminated land project

15.15 Afternoon tea

15.45 Demolition of nuclear facilities

- Demolition as part of the decommissioning plan
- Examples of nuclear facility demolition
- Exploring cost build-ups
- Lessons learned and waste management options

Paul Atyeo, Harwell Decommissioning Project Manager,
Research Sites Restoration Ltd

16.30 Open discussion session New and emerging technologies

This session will discuss the new technologies involved in decommissioning procedures as well as where they can be applied and the benefits of using them.

17.00 Wrap-up and close of seminar

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