



# Decommissioning and Radioactive Waste Management

At AREVA RMC, decommissioning and waste management are core skill areas. We are working with clients in the UK and internationally, and play an active role within the UK's waste management programme. We have experience in producing Letter of Compliance submissions on behalf of the UK's waste management organisations, and in assessing them on behalf of Radioactive Waste Management Ltd.

With a strong track-record, AREVA is able to assist at all stages of the decommissioning process, and is well placed to face the challenges of decommissioning and waste package production.

**We provide pragmatic and technically astute support to our client's decommissioning and waste management activities.**

## In-depth knowledge of today's industry challenges

AREVA RMC has over twenty years' experience in decommissioning and waste management, delivering strategies, studies, and solutions that prioritise safety and a commitment to the long-term goals of our clients. Our consultants are geographically mobile, and as a result most of our staff have worked for a range of different clients across the nuclear industry, supporting all stages of the waste lifecycle.

This experience provides an understanding and appreciation of the unique challenges faced by clients, including:

- the time and cost implications of accelerated decommissioning
- the practicalities and necessities of waste-led decommissioning
- applying a defensible and practical use of the waste hierarchy
- acceptance criteria for diversion waste routes.

of nuclear safety cases with specialised disciplines such as shielding and dose assessment, human factors, waste characterisation and the Data Quality Objectives (DQO) methodology (a technically defensible and auditable methodology for data collection used by organisations across the nuclear industry, including Magnox and Sellafield).

This range of technical expertise allows us to take a well-rounded view of the issues involved in the decommissioning of facilities, and the long and short-term management of radioactive waste. Combined with our in-depth knowledge of the UK regulatory framework, we offer our clients pragmatic and technically astute support to their decommissioning and waste management activities, while responding to the concerns of stakeholders.

## A varied skill set for decommissioning and waste management solutions

The wide skill set of our consultancy team means that we bring a multi-disciplinary and technically informed approach to our clients' waste management and decommissioning projects; combining our main business stream



Copyright: AREVA / Eric Larrayadiou  
Interim storage of SSS waste drums inside Cell 29 of the ATPU building (Plutonium Technology Workshop). Drainage of the facilities of the AREVA MOX fuel fabrication plant. Cadarache plant, France



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Using a Python arm for the remote handling of pit 7 inside the stripping facility. AREVA Marcoule site, Bagnols-sur-Cèze, France.



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Grinding of the final welding of the 2 parts  
of a steam generator. Site Bugey 4 npp, France.



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### Take a look at our services

With an integrated range of decommissioning and waste management services, we provide support from initial studies to determine and optimise the nature and quantity of radioactive waste, through to ensuring wastes can be safely retrieved, conditioned, packaged, transported and disposed of in suitable facilities. The services we offer includes:

#### Compliance

- Environmental Permitting Regulations 2010 (EPR10) and Radioactive Substances Act 1993 (RSA93) submissions;
- Best Available Techniques (BAT) option studies;
- Regulatory Compliance assessments.

#### Strategy

- Integrated waste strategies, including waste-led decommissioning;
- Decommissioning plans, lifetime plan development and review.

#### Operations

- Procedural review and advice supporting increased waste throughput for decommissioning; including provision of Written Management Procedures;
- Sample Analysis Plans and advice on defensible characterisation strategy;
- Radioactive waste inventory and fingerprinting work, including FISPIN and FISFACT calculations;
- Dose assessment of waste items, packages or facilities using for example MCNP, Atilla or MicroShield or modelling using recognised published methodologies;
- Advice in waste assay and activity assessment including assessment of activation;
- Selection and justification of effluent treatment or abatement strategies and technologies
- Provision of training to Waste Operatives, Waste Engineers and other waste management professionals;
- Preparation of waste packaging submissions for Letters of Compliance disposability assessment;

### AREVA Risk Management Consulting Ltd

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- Consequence assessment of accidental releases;
- Human Factors substantiation of waste operator tasks for example; task design, manual handling, staffing requirements, fatigue, PPE ergonomics, human error identification, communication.

#### Transport and Logistics

- Advice on compliance with the IAEA Regulations for the Safe Transport of Radioactive Material;
- Advice on and the preparation of elements of package design safety reports for waste and transport containers;
- Assessment of routine doses to operators and the public, and assessment of risks due to accidents;
- Logistical planning, modelling and costing.

#### Commitment to quality

Our robust quality assurance systems and internal verification procedures, accredited to ISO9001, ensure that all work is undertaken and verified to the highest level and fully meets the requirements specified by our clients.

For further information please contact your local office:

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AREVA RMC Ltd is a wholly owned subsidiary of AREVA and is a specialist consultancy to the UK nuclear industry. With a track record of over 30 years, it is the use of our knowledge and experience which provides the value.

