



orano

# Decommissioning & Waste Management

## Technical consulting

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## In-depth knowledge of today's challenges

Orano Projects Limited 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 nationally and internationally mobile, and as a result, most of our staff have worked for a range of different clients within the nuclear industry, supporting all stages of the waste management and decommissioning lifecycle.

We are experienced in producing Letter of Compliance submissions on behalf of the UK's waste management organisations, and also assessing them on behalf of Radioactive Waste Management Limited.

Our experience gives our teams a full appreciation of the challenges faced by our clients, particularly in the following areas:

- Time and cost implications of accelerated decommissioning
- Practicalities and requirements of waste-led decommissioning
- Practical and defensible use of the waste hierarchy
- Acceptance criteria for diversion waste routes
- Long and short-term management of radioactive waste
- Responding to the concerns of stakeholders

Working with clients both in the UK and internationally, Orano plays an active role in the UK waste management programme and is well-placed to face the challenges of decommissioning and waste package production. Combining decades of UK experience with the technical pedigree of our international parent, we deliver technically astute and practical services to our clients.

## Practical solutions from multi-disciplinary teams

The wide skill set of our team brings a well-rounded and technically informed approach to our clients' projects. This approach combines our core business stream of nuclear safety cases with an in-depth knowledge of the UK regulatory framework and specialised disciplines such as shielding and dose assessment, human factors, waste characterisation. We also provide in-house experts in the Data Quality Objectives (DQO) methodology, developed by the United States' Environmental Protection Agency and used by both Magnox and Sellafield, to deliver technically defensible and auditable methodology for data collection.

# What do we offer?

## Compliance & Strategy

- Environmental Permitting Regulations 2010 (EPR10) and Radioactive Substances Act 1993(RSA93) submissions
- Best Available Techniques (BAT) option studies
- Regulatory Compliance assessments
- Integrated waste strategies, including waste-led decommissioning
- Decommissioning plans, lifetime plan development

## Operations

- Procedural review and advice supporting increased waste throughput for decommissioning; including provision of written management procedures
- Sample Analysis Plans and advice of defensible characterisation strategy
- Radioactive inventory and fingerprinting work, including FISPIN and FISPACT calculations
- Dose assessment of waste items, packages or facilities using MCNP, Attila or MicroShield, or modelling using recognised published methodologies.
- Advice in waste assay and activity assessment including assessment of activation

## Operations (cont)

- Selection and justification of effluent treatment or abatement strategies and technologies
- Training of waste operatives, waste engineers and other waste management professionals
- Preparation of waste packaging submissions for Letters of Compliance Disposability assessment
- Consequence assessment of accidental releases
- Human Factors substantiation of waste operator tasks, covering task design, manual handling staffing requirements, fatigue, PP ergonomics, human error identification and communication

## Transport and Logistics

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

# Why choose

# Orano Projects?

Delivering a wide range of integrated decommissioning and waste management services, Orano Projects provides practical, technically astute and multi-disciplinary consulting services to its clients. With a decade-strong track record in the UK, our teams have worked for the majority of the UK's major decommissioning clients and are fully conversant in some of the most complex decommissioning and waste management challenges being addressed across the sector.

Our robust quality assurance systems and internal verification procedures ensure that all work is delivered to the highest possible standard of quality and fully meets the specified requirements.



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**Orano Projects Limited is a wholly owned subsidiary of Orano, providing specialist technical consultancy and expert engineering services to the UK nuclear industry. With a track record of over 40 years operating in the UK, we combine unique knowledge and experience to offer the best value.**

## Contact your local office

Abingdon: +44(0)1235 555755

Warrington: +44(0)1925 816851

Whitehaven: +44(0)1946 67377

Head office: Suite 7, Hitching Court, Abingdon Business Park, Abingdon, Oxfordshire, OX14 1RA, United Kingdom



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