



orano

# Nuclear Safety Cases

## Technical consulting

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### Expert Safety Case development

At Orano Projects we deliver the full suite of nuclear safety case documentation, from preliminary safety reports for new facility designs through to decommissioning safety cases. We also have the capability to develop specialised safety cases for radioactive materials transport and radioactive waste management.

With wide experience of managing the development of safety cases in both the civil nuclear and defence sectors, our teams draw on their in-depth knowledge of nuclear safety assessment, licensing requirements and regulatory expectations to develop robust safety cases that efficiently overcome the challenges inherent in due process and allow clients to programme designs, operations and modifications with confidence. Our safety case lead authors and managers are all Senior Consultants and above with extensive nuclear experience both in the production and assessment of nuclear safety cases.

We are committed to safety-informed design and the full integration of design and safety assessment resources, and as a result our consultants are experienced in working as part of multi-disciplinary teams.



**orano**  
Giving nuclear energy its full value

Orano Projects has a proven track record of delivering high-quality, readily-implemented safety cases with real safety benefit. Having produced safety cases for the UK's major nuclear site licensees, we also inform corporate procedures and methodologies for the development and assessment of safety cases required by Site Licence Condition 14

### Multi-disciplinary approach to safety cases

In addition to nuclear safety assessors, Orano Projects provides a range of specialist teams to support the safety case development process, specifically in the following areas:

- Human Factors, Ergonomics including Human Reliability Analysis
- Criticality Assessment
- Shielding Design and Dose Assessment
- Radiological Protection
- Waste Management & Decommissioning
- Radioactive Materials Transport
- Nuclear and Radiological Hazard Assessment

# In-depth understanding of safety case development

All our safety case teams are led by highly experienced individuals with an up-to-the-minute appreciation of what constitutes a safety case developed to modern standards of good practice. In practical terms, Orano Projects delivers not only sound, informed project management, but also an unparalleled level of technical oversight.

Our robust quality assurance systems and internal verification procedures ensure that all work is undertaken and verified to the highest level of quality, and fully meets the requirements specified by our clients. This ensures the safety case development process encompasses multiple layers of protection against failure (as expected by the nuclear regulator), thereby ensuring high reliability and consistency of product quality.



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## Why choose

# Orano Projects?

Nuclear safety cases in all their forms are our core business. Our consultants are 'suitably qualified and experienced persons' (SQEP) in the safety case development process or the specialist disciplines which support that process. Our new recruits also benefit from a systematic programme of formal, in-house training in all aspects of nuclear safety assessment with learning reinforced by closely supervised on-the-job training on safety case projects.

Our staff's technical development is closely monitored and recorded on a competency database to ensure an up-to-date record of individual competency is available to support the resourcing of individual projects. Our most senior consultants are respected specialists in their fields, with several having been appointed Technical Authorities within the company and recognised as Orano experts by the international Orano group.



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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

Kendal: +44 (0)1539 722311

Whitehaven: +44(0)1946 67377

Thurso: +44(0)1847 890345

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



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[www.oranoprojects.uk](http://www.oranoprojects.uk)

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