

Protecting your business

Safety, control and security in nuclear installations



At Frazer-Nash, our consultants are applying their expertise and know-how to develop, enhance and protect our clients' critical assets, systems and processes.

We pride ourselves on providing high quality electrical, control and instrumentation (EC&I) advice to organisations in the nuclear and other safety critical industries.

With a considerable track record in UK regulatory environment, our team has expertise in licensing and safety support, nucleonics and control system security. These, coupled with our core skills of EC&I design, modification, substantiation and electromagnetic compatibility mean we're well placed to address even the most complex challenges.

Our expertise comes not from a single engineering perspective, but from detailed knowledge of a broad range of disciplines and their application across different markets. Through a systems approach we combine our extensive skill set with our ability to think creatively. We add value to each stage of a project and continue to do so throughout the project's life.

“ Our multi-disciplinary teams provide independent, bespoke advice that address your technical challenges and adds value to your business. ”

Listening to you and understanding your business needs is key to our mutual success. We want you to be delighted by working with a company that genuinely understands your business, the challenges you face and what's really important to you – a high-quality result, complete reliability, value for money and a clear competitive edge.

Our expertise

EC&I core skills:

- Design, modification and substantiation
- SMARTs, software and hardware substantiation, production excellence and independent confidence building
- UK context, licensing and safety support
- Electromagnetic compatibility
- Nucleonics
- High and low voltage applications including modelling
- Control system security

Our EC&I skills are complemented by Frazer-Nash's expertise in:

- Systems engineering
- Nuclear technology
- Human factors
- Information assurance
- Requirements
- Design
- Modelling and simulation
- Information systems and software safety

Adding value through systems engineering

Sometimes, a defined approach to a specific problem is all that is required. But more often than not, your challenges are framed by a wider context. So whatever the problem we take a holistic view.

We try to think like you and understand your assets, systems and processes. It's our business to solve your problems, so we work hard to gain a comprehensive understanding of your challenges. This means we can anticipate outcomes, test new ideas and find the optimum solution.

Our projects

- To facilitate severe accident management decision making, Frazer-Nash helped implement a new monitoring system. The system provided on and off-site real-time displays of key plant parameters for multiple locations
- Independent Nuclear Safety Assessment support for a replacement data processing system
- Verification of a HV protection scheme for a nuclear new build site
- Design of a test rig to record nuclear plant temperatures and proposals for a new insulation solution
- Support to the regulator carrying out generic assessment of new reactor designs
- Support to a client's programme of work to replace obsolete electronic components in line with functional and safety requirements
- Significant project to characterise the EMC risk of equipment for a fleet of nuclear reactors, including risk assessment, site survey, analysis and corrective actions
- Report investigating use of wireless technologies at nuclear sites
- HV design substantiation
- Commissioning support to HV electrical modification

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About us

Turnover: £63 million (FY2013/2014)

Number of employees: Over 600

Office locations:

United Kingdom

Bristol, Burton-on-Trent, Dorchester,
Dorking, Glasgow, Gloucester,
Plymouth, Warrington

Australia

Adelaide, Canberra, Melbourne

Our markets and expertise:

aerospace, transport, nuclear, marine,
defence, renewable energy, oil and
gas, security and resilience, electronic
and electrical engineering

Our clients include:

- AWE
- EDF Energy (Nuclear Generation)
- EDF Energy (Nuclear New Build)
- Hitachi-GE Nuclear Energy Ltd
- Horizon Nuclear Power
- Ministry of Defence
- Office for Nuclear Regulation (ONR)
- Rolls-Royce (Submarines)
- Sellafield Ltd