Helping shape the future of the nuclear industry
An introduction to Hydrock nmcl

At Hydrock nmcl, we are at the forefront of influencing and creating safety and environmental standards that are helping to shape the future of the nuclear industry.

We work with both operators and regulators in the UK and internationally at all stages of the nuclear lifecycle, from new build to decommissioning.

For organisations involved in the development and operation of a nuclear facility, our engagement begins by helping them to understand the complex and essential regulatory environment of the nuclear industry. We follow this by developing an appropriate organisational capability that will enable ‘intelligent’ future development and ultimately demonstrates compliance with the legal and regulatory requirements.

This approach is designed to help create a capable operator who will ensure competence and quality across a project. Critically, it’s an approach that also embraces the supply-chain and is flexible to the changing needs of a project through its lifecycle.

Our background
We have delivered high-end strategic consultancy to the nuclear industry since 2005.

Our business was founded as Nuclear Management Consultancy Limited and in 2014 we became part of Hydrock Group, an organisation with an established track record that includes activity on sites used for both nuclear power generation and defence.

About Hydrock Group
Hydrock is a multidisciplinary engineering consultancy and specialist land remediation contracting business with over 500 staff UK-wide.

At the heart of our business is the capability, enthusiasm and integrity of our people. In 2016 we were ranked in the top 10 in the Sunday Times 100 Best Companies to Work For survey.

Hydrock nmcl’s clients include:

- EDF Energy NNB GenCo
- EDF Energy Nuclear Generation
- Environment Agency
- NuGen
- Office for Nuclear Regulation (ONR)
- AWE
- GE Healthcare
- Horizon Nuclear Power
- Tokyo Electric Power Company (TEPCO)
Our specialist services

Hydrock nmcl delivers specialist consultancy services to organisations involved in new build, existing operations and decommissioning in the nuclear industry.

Our services cover the following areas:

• Safety and environmental management – including licensing and environmental permitting
• Safety governance and regulatory interface
• Radioactive waste management and disposability support
• Organisational capability and integrated management systems
• Independent peer review
• Independent technical assessment
• Provision of expert advice and challenge
• Contribution to specialist committees
• Compliance with international law.

In addition, Hydrock Group delivers a range of core services to the nuclear industry, including:

• Multi-disciplinary engineering design
• Land remediation
• Enabling works

(Above) The areas of focus to deliver best practice organisational capability
Our track record

**EDF Energy: Hinkley Point C**
Our team provided strategic support on all aspects of the application by EDF Energy NNB GenCo to secure a nuclear site licence for Hinkley Point C. We developed strategies from first principles to establish EDF Energy’s Intelligent Customer capability and these processes are now embedded in their NNB GenCo operation.

In addition, Hydrock’s engineers have conducted site investigation, contaminated land remediation and geotechnical design to prepare the future construction site. Our work has also included the safe segregation, removal and validation of c450,000 tonnes of asbestos contaminated soil.

**Office for Nuclear Regulation (ONR)**
We have supported ONR in many areas of policy development including a fundamental revision to Licence Condition 3 (control of site operations), nuclear organisational baselines, and the development of standards to guide operators in the production of a management prospectus.

The extensive experience we have gained from advising nuclear site operators has enabled us to inform the development of many of these areas of regulatory policy and guidance.

**Tokyo Electric Power Company (TEPCO)**
Following the disaster at the Fukushima Daiichi nuclear site we are providing direct support and skills training to Japanese inspectors and site operators within TEPCO.

In particular we have helped TEPCO develop a culture of ‘challenge’ in matters relating to nuclear safety. Through a number of in-country visits we have provided training on ‘independent oversight’, shared best practice on UK licensing and permitting, and delivered independent review and guidance to the development of management practices in areas such as radiation protection, waste management, safety culture, safety leadership and work authorisation.

**NuGen**
We are supporting NuGen and its business partners in developing an effective organisational capability as a prospective licensee and environmental permit holder for its proposed new generation nuclear power station at Moorside in Cumbria.

Under a framework agreement, our support can range from establishing a nuclear organisational baseline to civil engineering design and land remediation for this joint venture between Toshiba and ENGIE (formerly GDF SUEZ).
Contact us

Jenny Richards
Managing Director, Hydrock nmcl
Jenny founded nmcl in 2005 and has over 30 years’ experience in the nuclear industry. With a background in safety cases, environmental management and nuclear safety governance, she has held senior positions within both operating organisations and in consultancy and was Vice President of the Institute of Physics. She often provides expert witness support on nuclear safety cases.
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Brian McConnell
Managing Director, Hydrock Group
Brian founded Hydrock in 1995 and has successfully grown the business both organically and through strategic acquisitions. His commitment to creating a company with a strong ethos has resulted in high levels of employee engagement and made Hydrock a top performing employer in the Sunday Times 100 Best Companies survey. Brian is Chair of the Nuclear Industry Association New Build Group.
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Peter Sibley
Director
Peter has 11 years’ experience in the nuclear industry with a broad range of technical, project management and commercial experience. He is a technical specialist in radioactive waste management, nuclear decommissioning strategy development, environmental assessment and nuclear liabilities management. Peter has site-based experience working with clients such as RWM, Magnox and AWE.
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Pete Stewart
Technical Director
Pete has almost 30 years’ experience in the nuclear and high hazard industries. He has proven and extensive expertise in nuclear safety case management, expert witness support and in commercial, business and client management within the wider engineering consultancy market. He has worked with a wide range of national defence and civil nuclear related clients along with international oil companies.
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Dr Joanne Hill
Technical Director
Joanne has 20 years’ experience in the nuclear industry during which time she has held a number of senior roles in academic, regulatory and commercial environments. She has technical expertise in radioactive waste management and disposability and nuclear decommissioning working with clients such as Sellafield Ltd., RWM Ltd., Magnox Ltd. and EDF NNB.
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Dr Joe McHugh OBE
Technical Director
As the former Head of Radioactive Substances Regulation in the Environment Agency, Joe led the nuclear and non-nuclear regulatory staff. He regularly interfaced with the UK government and other key stakeholders including the Office for Nuclear Regulation. Following his retirement from the Environment Agency in 2015, Joe joined Hydrock nmcl as a Technical Director.
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